US Army Corps of Engineers
Alaska District

2014 REMEDIAL ACTION REPORT

Final

2014 Northeast Cape HTRW Remedial Actions
Northeast Cape, Saint Lawrence Island, Alaska

Contract No. W911KB-14-D-0006
Task Order 0002

FUDS Nos. F10AK0969-03 and F10AK0969-05

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Prepared for

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All services have been performed in accordance with the terms and conditions of the contract.

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ACRONYMS AND ABBREVIATIONS

°	degrees
µg/Kg	micrograms per kilogram
µg/L	micrograms per liter
AAC	Alaska Administrative Code
AC&WS	Aircraft Control and Warning Station
ADEC	Alaska Department of Environmental Conservation
AK	Alaska Test Method
APP	accident prevention plan
AST	aboveground storage tank
bgs	below ground surface
Bristol	Bristol Environmental Remediation Services, LLC
BTEX	benzene, toluene, ethylbenzene, and xylenes
CDQR	Chemical Data Quality Report
C	Celsius
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	chemical of concern
CPR	cardiopulmonary resuscitation
CQCP	Contractor Quality Control Plan
CQCSM	Contractor Quality Control Systems Manager
DO	dissolved oxygen
DoD	U.S. Department of Defense
DRO	diesel range organics
DU	decision unit
ECO-LAND	ECO-LAND, LLC
ELAP	Environmental Laboratory Accreditation Program
EMT	emergency medical technician
EPA	U.S. Environmental Protection Agency
F	Fahrenheit
FUDS	formerly used defense site
GPS	Global Positioning System
GRO	gasoline range organics

ACRONYMS AND ABBREVIATIONS (continued)

HSM	health and safety manager
HTRW	hazardous, toxic, and radioactive waste
ID	identification
IDW	investigation-derived waste
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LIF	Laser-induced fluorescence
LOD	limit of detection
LOQ	limit of quantitation
mg/Kg	milligrams per kilogram
mg/L	milligrams per liter
MI	*MULTI INCREMENT*
MNA	monitored natural attenuation
MOC	Main Operations Complex
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
mV	millivolts
MWH	Montgomery Watson Harza Americas, Inc.
ND	non-detect
NE Cape	Northeast Cape
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
OSHA	Occupational Safety & Health Administration
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCE	Tetrachloroethene
PM	Project Manager
POL	petroleum, oil, and lubricants
PPE	personal protective equipment
ppm	parts per million
PVC	polyvinyl chloride

ACRONYMS AND ABBREVIATIONS (continued)

QAPP	Quality Assurance Project Plan
QAR	quality assurance representative
QC	quality control
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
RPD	relative percent difference
RRO	residual range organics
SDG	sample delivery group
SOP	standard operating procedure
SOW	Scope of Work
SS	site superintendent
SSHO	site safety and health officer
SSHP	site safety and health plan
SVOC	semivolatile organic compound
TAH	total aromatic hydrocarbons
TAqH	total aqueous hydrocarbons
TCE	trichlorethene
TCLP	toxicity characteristic leaching procedure
TestAmerica	TestAmerica Laboratories, Inc.
USACE	US Army Corps of Engineers
USAF	US Air Force
UST	underground storage tank
UVOST	Ultra-Violet Optical Screening Tool
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This remedial action report details work performed by Bristol Environmental Remediation Services, LLC (Bristol) at the Northeast Cape (NE Cape) Formerly Used Defense Site (FUDS) located at the NE Cape of Saint Lawrence Island, Alaska. Bristol and its team of subcontractors performed the work on behalf of the U.S. Army Corps of Engineers, Alaska District (USACE) under two contracts:

- W911KB-14-D-0006, Task Order 0002
- W911KB-13-C-0004

Bristol was scoped to perform and complete several tasks under contract W911KB-14-D-0006, Task Order 0002 including:

- Prepare and submit a planning document (work plan) to guide scoped activities
- Mobilize/demobilize equipment and personnel to and from the NE Cape site
- Excavate and remove up to 4,000 tons of petroleum, oil, and lubricant (POL)-contaminated soils to a depth of 15 feet, or 2 feet below groundwater, whichever occurs first, at the Main Operations Complex (MOC), specifically plumes E1 and C, previously identified with an Ultra-Violet Optical Screening Tool (UVOST)
- Investigate (by sampling soil borings), excavate, transport, and dispose of arsenic-contaminated soil at Site 21 Wastewater Treatment Tank
- Sample soil and install/develop seven new monitoring wells at the MOC
- Perform monitored natural attenuation (MNA) sampling of seven new monitoring wells and seven existing monitoring wells at the MOC
- Abandon three monitoring wells at the MOC
- Recondition seven existing monitoring wells in the vicinity of the MOC; one additional well was determined to be serviceable resulting in eight wells being reconditioned and sampled
- Remove and dispose of two tons of miscellaneous dangerous debris from areas site-wide
- Remove and dispose of two tons of dangerous debris from ponds located adjacent to and on the surface of the gravel cap (including addition of gravel cap material, if necessary) at the Site 7 Cargo Beach Road Landfill
- Remove drum liquids, if encountered, up to 100 gallons site-wide.

- Sample soil at Site 6, analyze for polychlorinated biphenyls (PCBs), and excavate contaminated soil, if necessary
- Collect two surface water samples at Site 8 and submit for laboratory analysis
- Sample soil at Site 10 and submit for laboratory analysis followed by excavation and removal of soil up to 250 tons of contaminated soil, if necessary
- Sample soil at Site 27 and submit for laboratory analysis followed by excavation and removal of contaminated soil, if necessary
- Sample soil at Site 32 and submit for laboratory analysis followed by excavation and removal of up to 250 tons of contaminated soil, if necessary
- Prepare a hazardous, toxic, and radioactive waste (HTRW) remedial action report to document the 2014 field effort

By the end of the 2014 field season, Bristol completed all required tasks associated with the Scope of Work (SOW) including:

- Excavated and removed 4,489.92 tons of PCS in accordance with the 2*009 NE Cape Decision Document* (USACE, 2009)
- Collected soil samples from 40 soil borings at Site 21 and excavated and removed 107.35 tons of arsenic-contaminated soil
- Sampled and installed seven new monitoring wells at the MOC; collected samples from the soil borings prior to well installation; collected groundwater samples from each of the new monitoring wells and analyzed wells for MNA parameters
- Abandoned two monitoring wells at the MOC
- Reconditioned eight monitoring wells at the MOC
- Removed 10.97 tons of debris from across the NE Cape site and in the vicinity of the Site 7 landfill
- Removed, transported, and disposed of 1.27 tons of tar and tar-contaminated soil associated with the buried drums found at Site 10
- Excavated two test pits at Site 6 corresponding to historical sample locations and analyzed soil samples for PCB concentrations; PCB-contaminated soil at Site 6 was not encountered
- Collected two surface water samples at Site 8 and submitted the samples for laboratory analysis

- Collected soil samples corresponding with Site 10's historical sample locations and analyzed the samples for contaminants; subsequently excavated, containerized, and shipped 265.6 tons of contaminated soil from Site 10
- Collected soil samples from Site 27 and submitted samples to project laboratory for naphthalene analysis; naphthalene contamination was not encountered during the investigation
- Investigated Site 32 for POL-contaminated soil; encountered diesel range organic (DRO)-contamination resulting in the excavation and removal of 53.13 tons of contaminated soil
- Removed an open grate at Site 31 concrete foundation and backfilled the resulting concrete void with clean material to eliminate the safety risk. PCB-contaminated soil located in the surrounding area at Site 31 had previously been investigated with the excavation and removal of PCB-contaminated soil above the cleanup level of 1 part per million (ppm)

In addition, Bristol completed several remaining tasks associated with 2013 contract W911KB-13-C-0004:

- Collected geotechnical samples and waste characterization samples from sediment that overwintered inside geotextile dewatering tubes located at the Site 28 work pad; containerized, transported, and disposed of the sediment
- Collected *MULTI INCREMENT*[1] (MI) soil samples at the Site 28 work pad following sediment and infrastructure (sediment dewatering tubes and water containments) removal
- Transported and disposed of miscellaneous debris collected from areas located site-wide
- Collected MI samples at the Cargo Beach staging area following the completion of 2014 field activities

The 2014 POL-contaminated soil removal efforts at the MOC were a continuation of removal actions which were initiated in 2011. Since 2011, the USACE has contracted Bristol to remove POL-contaminated soil at the MOC. Bristol established an excavation plan based on UVOST and scheduled excavation for several soil units (plumes). Ten units (and additional subunits) have been undergoing excavation since 2011; during the 2014

[1] *MULTI INCREMENT*® is a registered trademark of EnviroStat, Inc.

field season, Bristol excavated the remaining units from plumes C, E, and I. The USACE considers all excavation objectives to have been conducted in accordance with the *2009 NE Cape Decision Document* (USACE, 2009). Excavation activities were performed to the extent feasible based on site conditions, with the exception of areas where excavation would have negatively impacted surrounding areas. In accordance with the *2014 Work Plan* (Bristol, 2014) approved by the Alaska Department of Environmental Conservation (ADEC), soil was removed down to 15 feet below ground surface (bgs); or 2 feet below groundwater; or until confirmation soil samples indicated contaminants did not exist in concentrations that exceeded applicable cleanup levels. Bristol excavated a total of 4,489.92 tons of POL-contaminated soil from plumes E, C, and I in 2014 and shipped all contaminated soil off site for disposal. Bristol loaded the contaminated soil into a total of 457 bulk bag containers which served as the intermodal shipping containers for the contaminated soil. Bristol collected confirmation samples from all POL excavations at frequencies that adequately characterized the soil; waste characterization samples were collected from waste soil in order to make a proper waste determination and to meet disposal facility acceptance criteria.

Bristol excavated soil from Sites 10, 21, and 32. Site 10 field efforts began as an investigation to locate historical samples that contained DRO concentrations above the site-specific cleanup level of 9,200 milligrams per kilogram (mg/Kg) identified during the 5-year review. Bristol collected six new samples from these historical locations and analyzed the samples for gasoline range organics (GRO), DRO, residual range organics (RRO), PCBs, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), glycols, and Resource Conservation and Recovery Act (RCRA) 8 metals plus nickel, vanadium, and zinc. Sample results from Site 10 exceeded the site-specific cleanup level for DRO; and concentrations of VOCs exceeded migration to groundwater evaluation criteria identified in Table C –Groundwater Cleanup Levels identified in *Title*

18 of the Alaska Administrative Code (AAC) Chapter 75, Section 345 (ADEC, 2014). Bristol removed 265.6 tons of POL-contaminated soil from Site 10. The contaminated soil was loaded into 40 bulk bag containers which were properly characterized and shipped off site for disposal.

Bristol collected 120 primary soil samples from 40 soil borings at Site 21; samples indicated arsenic was present at concentrations exceeding the site-specific cleanup level of 11 mg/Kg. Bristol excavated 107.35 tons of arsenic-contaminated soil, loaded it into 17 bulk bag containers, properly characterized the containers, and shipped them off site for disposal.

Bristol collected soil samples from historical sample locations at Site 32 to determine if POL-contamination was present at concentrations exceeding applicable cleanup levels. DRO-contaminated soil was encountered, resulting in the excavation and removal of 53.13 tons of soil. DRO-contaminated soil was loaded into seven bulk bag containers which were properly characterized and shipped off site for disposal. Confirmation sample results indicated that all DRO-contaminated soil had been removed to concentrations below the site-specific cleanup level of 9,200 mg/Kg.

Site 6 was investigated for the presence of PCBs and Site 27 was investigated for the presence of naphthalene. A review of site information indicated that these contaminants might remain in concentrations that exceed applicable cleanup levels. Bristol collected soil samples that corresponded spatially with historical sample locations and analyzed the samples accordingly for PCBs or naphthalene. There were no detection of PCBs at Site 6 and all detections of DRO, RRO and naphthalene at Site 27 were below applicable cleanup levels. Characterization of these sites was determined to be complete and the data gaps presented in the SOW were addressed.

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1.0 INTRODUCTION

This *2014 Northeast Cape Hazardous, Toxic, and Radioactive Waste (HTRW) Remedial Actions Report* presents the results of a remedial action performed at the Northeast Cape (NE Cape) Formerly Used Defense Site (FUDS) located at the NE Cape of Saint Lawrence Island, Alaska. Bristol Environmental Remediation Services, LLC (Bristol), and its team of subcontractors performed the work for the US Army Corps of Engineers (USACE), Alaska District, under contract number W911KB-14-D-0006, Task Order 0002. Bristol also completed tasks associated with contract W911KB-13-C-0004 that were initiated in 2013, but not completed until the 2014 field season.

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2.0 SITE DESCRIPTION

2.1 LOCATION

Saint Lawrence Island is located in the northern Bering Sea off the western coast of Alaska. NE Cape lies approximately 135 air miles southwest of Nome, Alaska (Figure 1). The project site, which originally encompassed 4,800 acres, falls between Kitnagak Bay to the northeast, Kangighsak Point to the northwest, and the Kinipaghulghat Mountains to the south (Figure 2). The site is located at 63 degrees 20 minutes north latitude and 168 degrees 59 minutes west longitude, in Township 25 South, Range 54 West, Kateel River Meridian. The site is not connected to the surrounding communities by road and is only accessible via air, water, or all-terrain vehicle (USACE, 2009).

Figure 3 shows the location of the major work sites discussed in this report. The bulk of the facilities were located in what is known as the Main Operations Complex (MOC), an area located approximately 1 mile south of the airstrip. An overview of the MOC is shown on Figure 4. A number of work sites discussed throughout this document, including Site 10, Site 21, Site 27, the petroleum, oil, and lubricants (POL)- excavation plumes, Pad 98, and the aboveground storage tanks (ASTs) at Site 11 are located in, or adjacent to, the NE Cape FUDS Main Operations Complex (MOC) area of concern. A gravel road known as Perimeter Road encircles Sites 13, 15, 17, 18, 19, 20 and 27 at the MOC; whereas Sites 9, 10, 11, 14, 16, 21, 22 and 26 are outside of Perimeter Road.

2.2 CLIMATE

Saint Lawrence Island has a cool, moist, subarctic maritime climate, with some continental influences during winter when much of the Bering Sea is capped with ice pack. Winds and fog are common, and precipitation occurs approximately 300 days per year as light rain, mist, or snow. Annual snowfall is approximately 80 inches per year. Total annual precipitation is about 16 inches per year, and more than half falls as light rain between June and September. Summer temperatures average between 34 degrees

Fahrenheit (°F) and 48°F, with a record high of 65°F. Winter temperatures range from -2°F to 10°F, with an extreme low of -30°F (Montgomery Watson Harza Americas, Inc. [MWH], 2003). Freeze-up normally occurs in October or November, and breakup normally occurs in June.

Winds are generally northerly to northeasterly from September to June and southwesterly in July and August. Winds exceed 11 miles per hour 70 percent of the time and the average wind speed is 18 miles per hour. Gusts in the NE Cape area have measured as high as 110 miles per hour (USACE, 2002).

2.2.1 Weather Conditions during the Project Field Season

Weather conditions during the 2014 field season were typical of a summer subarctic maritime climate. Variable winds, light precipitation or fog, and temperatures ranging from 35-55°F were typical of the daily weather in lowland and lower mountain areas. Crews periodically encountered violent storms with sustained winds exceeding 30 miles per hour, as well as periods of clear, calm conditions.

Bristol witnessed minor amounts of snow in shaded areas and in the higher elevations of Kangukhsam Mountain during a short sampling event the week of June 10, 2014. The site was covered in a few inches of snow during the last site visit to collect samples on October 20, 2014. Work progress was not affected by snowfall during the 2014 field season.

2.3 TOPOGRAPHY

The lower mountain area consists mainly of flat coastal plains that gradually turn into rolling tundra toward the base of the Kinipaghulghat Mountains. The mountains rise abruptly to a maximum elevation of approximately 1,850 feet above mean sea level (msl). Elevations across the work areas ranged from sea level to approximately 300 feet above msl.

2.4 GEOLOGY

Saint Lawrence Island consists of isolated bedrock highlands of igneous, metamorphic, and older sedimentary rocks surrounded by unconsolidated surficial deposits overlying a relatively shallow erosional bedrock surface. In the immediate vicinity of the lower mountain area south of the MOC, shallow, unconsolidated surficial materials overlie quartz monzonitic rocks of the Kinipaghulghat Pluton. The pluton forms the mountainous work area south of the MOC, including Kangukhsam Mountain. The Suqitughneq River drainage in the Kinipaghulghat Pluton has created an erosional valley and alluvial fan of unconsolidated sediments. Granitic bedrock materials are exposed at the coast north of Kitnagak Bay, suggesting that quartz monzonitic bedrock underlies the unconsolidated materials at a relatively shallow depth on a wave-cut erosional platform (USACE, 2009).

The unconsolidated materials exhibit an alluvial soil profile in areas that have not been disturbed by man. In general, silts near the surface, which overlie more sand-dominated soils, characterize the soil stratigraphy at the site. The silt may contain varying quantities of clay, sand, and gravel and may vary from zero to 10 feet in thickness. The silt is dark brown to dark green and sometimes exhibits a mottled texture. In some areas, the silt exhibits an aqua green or blue color. Dark brown silts were observed in outcrops. The sand at depth contains varying degrees of silt, gravel, and cobbles and it varies from 2 feet to more than 20 feet in thickness. Deeper, coarse-grained materials are generally unsorted and are likely to be of glaciofluvial origin. The depth to bedrock at the lower elevation areas of the site is unknown (USACE, 2009). Beach material is primarily cobble (1-inch stones), with some sand and intermittent large boulders and rocks (USACE, 2002).

2.5 SURFACE WATER AND GROUNDWATER

Because Saint Lawrence Island is relatively remote and undeveloped, regional-groundwater data is limited (MWH, 2003). Bedrock materials south of the site (and underlying the unconsolidated deposits) are not expected to store and transmit significant

quantities of groundwater. Typically, these types of granitic rocks are impermeable and transmit groundwater only through localized fractures and weathered soil zones at the surface. However, historical reports concerning water supply wells suggest that this deep, fractured bedrock aquifer supplied sufficient water to sustain the installation during operation (MWH, 2003). Multiple production wells accompanied by storage tanks used to supply the installation during its operation and were drilled to depths of 50 to 70 feet into a fractured bedrock aquifer. It is noted in the MWH report (2003) that the use of multiple water supply wells may indicate that groundwater availability was inconsistent and variable throughout the aquifer during different times of the year and that there are insufficient data to determine the aquifer's extent across the site.

The primary potential aquifer at the NE Cape site is the unconsolidated alluvial material that underlies the area. Regions where blocks of the bedrock are breaking off to form the talus fields that flank the Kinipaghulghat Mountains are likely capable of transmitting large volumes of groundwater (MWH, 2003). The mountainous area to the south of the former installation provides an ideal recharge area for these unconsolidated materials, providing runoff from rain and snowmelt during the summer that permeates the broken bedrock, alluvial, and glacial deposits. Based on the topography and geology of the site, the regional groundwater flow direction is expected to be from the mountainous recharge area south of the site, flowing north, eventually discharging to the Bering Sea (MWH, 2003).

The shallow, subsurface groundwater observed and encountered across the MOC (and across the former installation) likely consists of seasonally thawed water that is both spatially and temporally intermittent (MWH, 2003). Groundwater elevations observed in monitoring wells at the MOC in 2013 ranged from approximately 60 to 71 feet above msl, exhibited depths to water measurements ranging from approximately 5 to 39 feet below ground surface (bgs), and indicated a groundwater flow direction to the northwest.

Groundwater elevations, depths to water and flow directions were similar in 2014 (Figure 5). Water depths at the MOC are greatest to the south and become shallower as they progress north to the Site 28 drainage basin.

Groundwater elevations fluctuate both from year to year and throughout the course of the field season. Water elevations for late July/early August at the F/G plume were 4 feet higher in 2012 than 2013. In 2011, 2012 and 2013 groundwater elevations at the MOC increased by several feet from late July to early September. In August 2011, the groundwater elevation at the H plume excavation rose 3 feet in 3 days during a precipitation event. Groundwater elevations in excavations may also demonstrate large spatial variability, including on July 23rd, 2012 when water levels taken from the Site 13 excavation and the F plume excavation, located 25 feet away, varied by 3.2 feet.

Key factors influencing the flow of groundwater at the site are the permafrost and frozen soils, which render the unconsolidated materials effectively impermeable in some areas (MWH, 2003). The U.S. Geological Survey has classified Saint Lawrence Island as an area of moderately thick to thin permafrost (Ferrians, 1965). Although the depth of permafrost at Saint Lawrence Island is unknown, the base of permafrost on the mainland at Nome (135 air miles northeast) is estimated to be at a depth of 120 feet. The deeper, unconsolidated deposits at the site are probably permanently frozen, and the shallow soils represent the active layer where soils thaw during portions of the year. Frozen soils have an effect in retarding groundwater flow most of the year.

In addition to the Bering Sea north of the NE Cape facility, surface water in the vicinity of the work area consists of small streams, small- to moderate-sized lakes, and marshy areas (MWH, 2003). Surface water generally flows northward from the more southerly located highland areas of the Kinipaghulghat Mountains. Small surface water bodies are common throughout the area. The primary stream drainage in the area, the Suqitughneq River, is fed by runoff from the Kinipaghulghat Mountain valley in the lower mountain area, south

of the former installation. Several smaller tributaries, originating from two small, unnamed lakes (MWH, 2003), feed this stream drainage as it flows north to Kitnagak Point. Surface water flow in the area is highly dynamic; these changes occur over short and long periods of time and have been observed over the life of remedial activity (MWH, 2003). Bristol observed significant changes in surface water characteristics at multiple locations across the site, most notably at a location directly south (uphill) from Site 26 where surface water runs through a culvert underneath the road that runs from the MOC to the borrow source. This drainage originates in the Kinipaghulghat Mountain valley and exhibited variable flow in late spring/early summer in 2014, as well as in previous years. The drainage would flow for days at a time but would run dry later into the summer during drier periods.

2.6 AIR QUALITY

Air quality in the area is good. There are minimal sources of air emissions at the site because of its remote nature. The occasional boat motor, vehicle engine, or fire has a negligible effect. Air emissions at the site increase during remedial action work because more equipment and vehicles are operating at the site. Winds typical of the area aid in dispersing emissions (USACE, 2002).

2.7 VEGETATION

The NE Cape area has several major habitat types, including moist tundra dominated by heaths, grasses, sedges, mosses, and lichens, with shrubs that include bearberry, dwarf birch, narrow-leaf Labrador tea, and willow. These plants typically grow in 1 to 3 feet of undecayed organic mat over saturated and frozen soil. Alpine tundra plants (dwarf, prostrate plants that include heaths and tundra species adapted to dry, thin soil conditions) grow on the slopes and exposed ridges of nearby mountains. The NE Cape area has many low-lying areas with lakes, bogs, and poorly drained soils (USACE, 2002).

2.8 FISH AND WILDLIFE

Large mammals are generally not abundant on Saint Lawrence Island. Polar bears may be on the island any time during the year but are most often present when the ice pack is near shore. Some years, polar bears become stranded on the island throughout the summer when the ice pack moves out earlier than usual. There have been no polar bear sightings in the past six years of operations.

A population of approximately 1,000 reindeer inhabits the island. Arctic foxes, cross foxes, red foxes (less common), wolves (rarely), and several small mammals (tundra shrews, arctic ground squirrels, Greenland collared lemmings, red-backed voles, and tundra voles) also inhabit the island (MWH, 2003). Animals usually seen in or around the work sites are small mammals such as ground squirrels and foxes.

Marine mammals are present in the vicinity of the NE Cape area as seasonal migrants in the offshore and near shore marine waters, at haul-out sites, and in association with the advancing and retreating ice pack. No haul-out sites are within the work area. During the summer, walrus, sea lions, and spotted seals may be present in offshore waters. During the ice season, ringed seals, bearded seals, walrus, and spotted seals can be found in nearshore and offshore leads and open water. Bowhead, gray, minke, killer, right, humpback, blue, and beluga whales inhabit offshore waters (MWH, 2003).

The only breeding seabird colony known to exist at the NE Cape facility consists of about 60 glaucous gulls and 60 herring gulls at Seevookhan Mountain, approximately 5 miles southeast of the NE Cape site. Several other species of birds have been sighted in the vicinity of the NE Cape site, including common ravens, snow buntings, snowy owls, whistling swans, Lapland longspurs, jaegers, sand hill cranes, and emperor geese.

Ten primary species of fish reside in the streams and tundra ponds of Saint Lawrence Island. These include blackfish, nine-spined stickleback, grayling, whitefish, and Dolly

Varden trout. Five of the six species of Pacific salmon occur around the island and rear in many of the larger drainages (MWH, 2003).

2.9 COMMUNITY PROFILE AND LAND USE

The nearest community on Saint Lawrence Island to the project site is the Village of Savoonga, approximately 60 miles northwest of the site, with an estimated population of 718 people, according to the State of Alaska Department of Commerce, Community, and Economic Development website (accessed December 3, 2014) (ADCCED, 2014). Savoonga locals estimate that the population exceeds 800 people. There are no permanent residents at the NE Cape site, but there is a small subsistence hunting and fishing camp near Cargo Beach that is frequently inhabited in the summer by residents of Savoonga and Gambell. Snow machine travel during the winter months provides residents of Gambell and Savoonga relatively easy access to the site. The NE Cape site property is currently owned jointly by the two local native corporations, Sivuqaq, Inc., in Gambell and Kukulget, Inc., in Savoonga. The island is accessible by boat, regularly scheduled airlines (to Gambell and Savoonga), and chartered air flights out of Nome. There is no regularly scheduled commercial access to the project site.

2.9.1 Subsistence Activities

Savoonga is a traditional Yup'ik village, with a subsistence lifestyle. Whale, seal, walrus, and reindeer compose 80 percent of islanders' diets. The economy is largely based upon subsistence hunting of walrus, seal, fish, and whale, with some cash income. Berries, edible and medicinal plants are also harvested. Savoonga residents fish for halibut in the vicinity of NE Cape for subsistence and commercial purposes.

2.9.2 Community Support

The 2014 fieldwork at NE Cape supports the local community in several ways. Bristol employed five members of the Savoonga community throughout the majority of the field

effort. The construction camp's mess hall and medic facility were often visited by local visitors. Visitors were able to access medical personnel and medicine maintained on the site. The emergency medical technician (EMT), crew, and construction camp helped local individuals who needed medical attention during Bristol's 2014 field effort. The camp also offered incidental shelter and communications with Nome, Savoonga, Gambell, or Anchorage for the local population. The satellite communication system enabled visitors, including those hunting or fishing for subsistence, to contact family members and friends back home.

2.10 History

Saint Lawrence Island was established as a reindeer reserve by Executive Order on January 7, 1903. The US Air Force (USAF) constructed an aircraft control and warning station (AC&WS) at NE Cape during 1950 and 1951 (USACE, 2009). The present project site was acquired by the USAF on January 16, 1952, under Public Land Order 970, which removed 21,013 acres from the reserve. In 1952, the USAF AC&WS was formally activated by assignment of the 712th AC&WS Squadron and the 698th Security Squadron. The original site was designed to support 212 personnel. Throughout its existence, the NE Cape facility has been a surveillance station, providing radar coverage for the Alaskan Air Command and, later, for the North American Air Defense Command, as part of an Alaska-wide system constructed to reduce potential vulnerability to bomber attacks across the polar regions.

The White Alice Station area remained in operation with minimal military staff until 1972. All lands were then withdrawn from the military under Public Land Order 5187 for classification under Section 17(d)(1) of the Alaska Native Claims Settlement Act of 1971, which entitled local community village corporations to select and receive specific tracts of federal land. Interim Conveyance No. 203 (June 1979) conveyed unsurveyed lands of Saint Lawrence Island to Sivuqaq, Inc., and Savoonga Native Corporation, known today as

Kukulget, Inc. Surveyed land, easements, and land-use permits effective before conveyance were excluded from the transfer.

In 1982, transfer of the White Alice Station area, south of the MOC, to the U.S. Department of the Navy was initiated. However, this transaction was not formally completed and was superseded by Alaska Native Claims Settlement Act (ANCSA). The Navy conducted remedial actions under its Comprehensive Long-Term Environmental Action Navy program. The action included removal of specified hazardous items and containerized hazardous and toxic waste.

In 2000, the White Alice Station was reclassified as a FUDS-eligible property. In response, the USACE included the area in the ongoing cleanup program for NE Cape (USACE, 2002).

2.10.1 Previous Studies and Actions

Environmental investigations and cleanup activities at NE Cape began in the mid-1980s, with the goal of locating and identifying areas of contamination and gathering enough information to develop a cleanup plan. The URS Corporation conducted preliminary assessments in 1985, and Ecology and Environment, Inc. did follow-up assessments in 1991, 1992, and 1993.

Remedial investigations (RIs) were initiated at NE Cape during the summer of 1994, when MWH, performed a Phase I RI. Soil, sediment, groundwater, and surface water samples were collected during the Phase I RI. Additional sampling was performed during subsequent investigations: MWH conducted Phase II RI in 1996, 1998, and 1999; MWH conducted Phase III RI in 2001 and 2002; and Shannon &Wilson, Inc., conducted Phase IV RI in 2004. A feasibility study was conducted by USACE in March 2007, which summarized historical sampling results and removal actions and evaluated a range of alternatives for complying with the criteria prescribed by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The studies divided

the concerns among 34 separate sites. The results of the RIs showed that contaminants were present at some, but not all, NE Cape FUDS sites (USACE, 2009).

Several removal and remedial actions have taken place at the NE Cape FUDS:

- URS Corporation, 1990: Removal of transformers, drums, tanks, and other containerized hazardous wastes
- Northwest Enviro Service, Inc., 1994: Removal of 16 electrical transformers and their contents
- MWH, 1997: Removal of communication wires and cables from the tundra
- Nugget Construction Inc., 2000: Removal of building demolition and debris, drums, antenna poles, and a fuel pipeline
- Nugget Construction Inc., 2001: Removal of building demolition debris, polychlorinated biphenyl (PCB)-contaminated soil, POL-contaminated soil, and miscellaneous debris
- Bristol Environmental & Engineering Services Corporation, 2003: Removal of building demolition debris, other miscellaneous debris, drums, tanks, communications poles, wires, cables, and fuel lines
- Bristol Environmental and Engineering Services Corporation, 2005: Demolition and removal of tramway towers, wires, and cables, metal poles, communications wire and cable
- Bristol Environmental Remediation Services, LLC, 2009: Removal of POL-containing drums, landfill cap construction at Site 7, trial study of in-situ chemical oxidation treatment of POL-contaminated soils at the MOC
- Bristol Environmental Remediation Services, LLC, 2010: Removal of POL-contaminated soils from Sites 1, 3, 6, and 32; PCB-contaminated soils from Sites 13, 16, 21, and 31; and arsenic-contaminated soils from Site 21; landfill cap construction at Site 9; and monitored natural attenuation (MNA) at Site 8
- Bristol Environmental and Engineering Services Corporation, 2011: Removal of POL-contaminated soil from the MOC and PCB-contaminated soil from Sites 13 and 31; MNA at Site 8 and in groundwater wells at the MOC; debris removal; and roofing tar removal
- Bristol Environmental Remediation Services, 2012: Removal of 8,594.91 tons of POL-contaminated soil from the MOC; 4,884.73 tons of PCB-contaminated soil from Sites 13 and 31; 102.72 tons of arsenic-contaminated soil from Site 21; 59.40 tons of ethylene glycol- and tetrachloroethene (PCE)- contaminated soil and over

1,000 gallons of liquid from Site 10 including a variety of liquids encountered within the drums consisting of new and used oil, oil/water mixtures, tar, diesel fuel, ethylene glycol (antifreeze), and alcohols. The physical properties of the drum liquids ranged from colorless, low-viscosity alcohol to black, highly-viscous tar/oil; 20.6 bank cubic yards of sediment from Site 28; 15 tons of debris from areas across the site; 158 poles from across the site; continuation of MNA at Site 8 and in groundwater wells at the MOC; abandonment/decommissioning of six monitoring wells across the site; and collection of soil samples along the road leading to the radar dome

- Bristol Environmental Remediation Services, 2013: Removal of 10,601.24 tons of POL-contaminated soil from the MOC; 243.8 bank cubic yards of sediment from Site 28; 305.13 tons of arsenic-contaminated soil from Site 21; 290.4 tons of contaminated soil from Site 10; 0.29 tons of drums from Site 10; 28.45 tons of debris from areas across the site; 1 ton of drums from areas across the site; 30 pole stumps from areas across the site; continuation of MNA sampling; abandonment of twelve monitoring wells across the site.

In 2009, the USACE produced the *NE Cape Decision Document* (USACE, 2009), which presented the selected remedies for NE Cape in accordance with CERCLA, as amended by the Superfund Amendments and Reauthorization Act and the National Oil and Hazardous Substances Pollution Contingency Plan. Remedial actions were determined for each site of concern at NE Cape. Table 2-1 lists the selected remedies and their current status. A second decision document was also developed that was specific to the Site 7 landfill.

Table 2-1 Decision Document Selected Remedies for Northeast Cape Sites

Decision Document Site Remedy	Status[1]
No Further Action at sites 2, 4, 5, 12, 14, 17, 18, 20, 22, 23, 24, 25, 26, 33, and 34	Complete.
Excavation and removal of POL-contaminated soils at Site 1 Airstrip	Completed in 2010.
Excavation and removal of POL-contaminated soils at Site 3 Fuel Pumphouse	Completed in 2010.

Table 2-1 Decision Document Selected Remedies for Northeast Cape Sites (continued)

Decision Document Site Remedy	Status[1]
Excavation and removal of POL-contaminated soils at Site 6 Former Drum Field	Completed in 2010.
Excavation and removal of POL-contaminated soils at Site 32 Lower Tramway	Completed in 2014.
Excavation and removal of PCB-contaminated soils at sites 13, 16, 21, and 31	Completed in 2013.
Excavation and removal of arsenic-contaminated soil at Site 21 Wastewater Treatment Tank	Conducted in 2011, 2012, 2013 and 2014.
Removal of partially submerged debris	Conducted in 2014.
Excavation and removal of petroleum, metals, and PCB-contaminated sediment at Site 28 Drainage Basin, including removal of near-surface sediments from the narrow channel upgradient of the Suqitughneq River	Completed in 2012 and 2013. Second CERCLA Five Year Review scheduled for 2019.
Construction of sedimentation pond or other appropriate controls at Site 28 Drainage Basin	To be evaluated during second Five Year Review scheduled for 2019.
MNA of POL-contaminated sediment at Site 8 POL Spill Site	Second Five Year Review scheduled for 2019.
Capping of the Site 9 Housing and Operations Landfill	Completed in 2010.
Chemical oxidation at the Main Operations Complex, with remedy of MNA for groundwater, excavation and removal of POL-contaminated soils to a depth of 15 feet at sites 10, 11, 13, 15, 19, and 27, and land use controls	Chemical oxidation was initiated in 2009 for the purposes of treating POL-contaminated soils and was unsuccessful; MNA is in progress for groundwater; POL-contaminated soils that could be removed without causing a release of POL contaminated water into the Site 28 wetland and/or Suqitughneq River were completed in 2014.
Land use controls to limit future drinking water uses for groundwater at the MOC (Sites 10–22, 26, 27), designate areas not suitable for drinking water (Sites 3, 4, 6, 7, 9), prevent construction of buildings on top of landfills	Long Term Management Plan under development for future implementation.
5-Year Reviews at sites with hazardous substances remaining above cleanup levels, as necessary until cleanup levels are met. Periodic reviews of POL-contaminated sites (e.g., Site 8) with residual contamination will be included in conjunction with evaluation of the MOC	First Five Year Review completed in February 2015. Second Five Year Review scheduled for 2019.
Periodic visual monitoring for 5 years of the capped area at the Site 9 Housing and Operations Landfill and Site 7 Cargo Beach Road Landfill for settlement and erosion	Visual monitoring completed from 2010 – 2015. Second periodic review scheduled for 2019.

Table 2-1 Decision Document Selected Remedies for Northeast Cape Sites (continued)

Decision Document Site Remedy	Status[1]
Additional visual monitoring, up to 30 years, may be conducted if deemed necessary based on the results of 5 Year or Periodic Reviews	To be determined - The site(s) will be determined by the results of 5 Year or Periodic Reviews, and are therefore undetermined
Removal of dangerous poles, wires, and other miscellaneous debris from tundra areas site-wide, where identified	Pole removal conducted in 2009, 2010, 2011, 2012 and 2013. Wire and miscellaneous debris removal in 2009, 2010, 2011, 2012, 2013 and 2014. All clearly identified wire and debris has been removed from the site.
Removal of partially submerged debris from streams in the vicinity of Site 9 Housing and Operations Landfill and Site 29 Suqitughneq River	Completed in 2010

Notes:

[1]Alaska Department of Environmental Conservation (ADEC) has not issued formal decisions regarding completion of work and/or cleanup complete status for any of the subject sites.

MNA = monitored natural attenuation
PCB = polychlorinated biphenyl
MOC = Main Operations Complex
POL = petroleum, oil, and lubricants

3.0 CONTRACT SPECIFICATIONS

3.1 SCOPE OF WORK

The 2014 Scope of Work (SOW) was established under contract W911KB-14-D-0006, Task Order 0002:

- Prepare and submit a planning document (work plan) to guide scoped activities
- Mobilize/demobilize equipment and personnel to and from the NE Cape site
- Excavate and remove up to 4,000 tons of POL-contaminated soils to a depth of 15 feet or 2-feet below groundwater, whichever occurs first, at the Main Operations Complex (MOC), specifically plumes E1 and C, previously identified with an Ultra-Violet Optical Screening Tool (UVOST) (Figure 4)
- Investigate (by sampling soil in 40 borings), excavate, transport, and dispose of arsenic-contaminated soil at Site 21 Wastewater Treatment Tank
- Sample soil and install/develop seven monitoring wells at the MOC
- Perform MNA sampling of seven new monitoring wells and seven existing monitoring wells at the MOC; one additional well was determined to be serviceable resulting in eight previously existing wells being reconditioned and sampled
- Abandon three monitoring wells at the MOC (wells were determined to be unserviceable)
- Recondition seven monitoring wells in the vicinity of the MOC (one additional well was determined to be serviceable resulting in the reconditioning of eight previously existing monitoring wells)
- Remove and dispose of two tons of miscellaneous dangerous debris from areas site-wide, excluding from ponds located adjacent to and on the surface of the gravel cap at Site 7 Cargo Beach Road Landfill
- Remove and dispose of two tons of dangerous debris from ponds located adjacent to and on the surface of the gravel cap (including addition of gravel cap material if necessary) at Site 7 Cargo Beach Road Landfill
- Remove drum liquids, if encountered, up to 100 gallons from areas site-wide
- Sample soil at Site 6 and analyze for PCBs; excavate contaminated soil, if necessary
- Collect two surface water samples at Site 8 and submit for laboratory analysis
- Sample soil at Site 10 and submit for laboratory analysis followed by excavation and removal of up to 250 tons of contaminated soil, if necessary

- Sample soil at Site 27 and submit for laboratory analysis followed by excavation and removal of contaminated soil, if necessary
- Sample soil at Site 32 and submit for laboratory analysis followed by excavation and removal of up to 250 tons of contaminated soil, if necessary
- Prepare a 2014 HTRW remedial action report to document the field effort

Bristol completed several remaining tasks associated with 2013 contract W911KB-13-C-0004:

- Collected geotechnical samples and waste characterization samples from sediment that overwintered in geotextile dewatering tubes the Site 28 work pad; containerized, transported, and disposed of the sediment
- Collected *MULTI INCREMENT*[2] (MI) soil samples at the Site 28 work pad following sediment and infrastructure (sediment dewatering tubes and water containments) removal
- Transported and disposed of miscellaneous debris collected from areas located site-wide
- Collected MI samples at the Cargo Beach staging area following the completion of 2014 field activities

[2] *MULTI INCREMENT* is a registered trademark of EnviroStat, Inc.

4.0 PROJECT PLANNING, KEY PERSONNEL, AND SUBCONTRACTORS

4.1 PROJECT PLANNING

Bristol received the contract award from the USACE on December 31, 2013 and submitted a draft work plan to the USACE on April 1, 2014. The USACE provided work plan comments on May 15, 2014. The draft work plan was also submitted to the Alaska Department of Environmental Conservation (ADEC) for review and approval; however, the only formally issued comments that were received were in regards to Site 21 boring samples. Formal draft work plan comments were not received from the ADEC prior to field implementation of the work plan; however, the ADEC did provide comments and requests to the USACE orally and via email. The ADEC was kept informed of site progress throughout the project and was included in field decisions. Correspondence with the ADEC, including work plan comments received, are included in Appendix A. Bristol addressed the USACE comments and submitted the revised *Northeast Cape HTRW Remedial Actions Work Plan* (Bristol, 2014) on December 18, 2014. Section 4 describes the planning documents prepared for this project and field activities that deviated from the planning documents.

4.1.1 Planning Documents

The *Northeast Cape HTRW Remedial Actions Work Plan* (Bristol, 2014) consisted of the following components that were accepted by the USACE:

- *Northeast Cape HTRW Remedial Actions Work Plan*
- *Spill Prevention, Control, and Countermeasures (SPCC) Plan*
- *Quality Assurance Project Plan (QAPP)*
- *Accident Prevention Plan (APP)*
- *Site Safety and Health Plan (SSHP)*
- *Waste Management Plan*
- *Contractor Quality Control Plan (CQCP)*

4.1.2 Permits and Regulatory Notifications

Federal and state permits required for this project were included in the Appendix A of the *Northeast Cape HTRW Remedial Actions Work Plan* (Bristol, 2014). Copies of the permits and letters as well as the Material Supply and Quarry Operating Agreement between Bristol and Kukulget, Inc. and Sivuqaq Inc. (effective June 15, 2014) are provided in Appendix B of this report.

4.2 KEY OFFICE PERSONNEL

4.2.1 Project Manager

Greg Jarrell served as the Project Manager (PM) during the 2014 field effort covered in this report. Project management duties for the contract were transferred to Tyler Ellingboe in July 2015. The PM ensured that project tasks were completed on schedule and within budget, recommended and justified project modifications, implemented methods of tracking materials and resources, coordinated work with subcontractors, and complied with normal safety procedures and regulatory requirements. The PM submitted monthly status reports (Appendix C) to the USACE to keep the project team informed about work progress.

4.2.2 Health and Safety Manager

Wayne McDaniel served as the Health and Safety Manager (HSM) and reviewed Bristol's Safety and Health Program for this project. As the HSM, he monitored project compliance with Bristol's Corporate Safety and Health Program. Mr. McDaniel helped Bristol's site safety and health officers (SSHOs) develop and implement effective APPs and SSHPs. He is based in Bristol's San Antonio, Texas, office. For this project, Mr. McDaniel was responsible for key health and safety tasks:

- Reviewed and edited the APP and SSHP
- Remained available for emergencies

- Provided consultation as needed to ensure that the APP and SSHP were fully implemented
- Coordinated any modification to the APP and SSHP with the site superintendent (SS) and SSHO

4.2.3 Project Chemist

Marty Hannah served as the Project Chemist and had responsibility for project quality aspects related to sample collection and chemical analysis. Mr. Hannah oversaw data development, the data review process, and all subcontracted laboratories, and he was integral to setting up the field laboratory and assisting with all chemistry and sample management-related matters.

4.2.4 Regulatory Compliance Manager/Transportation and Disposal Coordinator

Tyler Ellingboe served as the regulatory compliance manager/transportation and disposal coordinator and oversaw all activities related to collecting, manifesting, transporting, and disposing of hazardous materials and wastes for Bristol. He worked closely with the Bristol environmental field crew to ensure wastes were properly identified.

Mr. Ellingboe also served as the transportation and disposal coordinator and was responsible for ensuring proper manifesting, placarding, and tracking of waste streams.

4.2.5 Occupational Physician

Bristol designated Occupational Physician Alexander T. Baskous for the NE Cape HTRW Remedial Actions project. Dr. Baskous was familiar with the project hazards and scope. He determined medical surveillance protocols and reviewed examination and test results in a manner that complied with *Title 29 of the Code of Federal Regulations (CFR) Part 1910, Section 120 (Medical Surveillance for Hazardous Waste Operations and Emergency Response)* (Occupational Safety and Health Administration [OSHA], 2014a). Dr. Baskous is board certified in occupational medicine, with an M.D. and Master of Public Health

from Harvard University. He is the director of the Northwest Segment of the American College of Occupational and Environmental Medicine, a diplomate of the American Board of Family Practice, and is on the active staff of both Providence Alaska Medical Center and Alaska Regional Hospital in Anchorage.

4.3 KEY FIELD PERSONNEL

4.3.1 Site Superintendent

Site Superintendent Chuck Croley was responsible for management of scheduling, coordination, and execution of Bristol's onsite activities in accordance with the contract specifications. He reported directly to the PM.

4.3.2 Site Safety and Health Officer

Site Safety and Health Officer Eric Barnhill was responsible for overall planning and compliance with safety and health requirements. He conducted daily safety meetings and addressed worker safety concerns. As SSHO, Mr. Barnhill was responsible for communicating safety issues and concerns, reporting safety incidents to the PM, and other safety-related duties:

- Remained on site on a full-time basis for the duration of field activities
- Assisted with onsite training and represented the HSM during the day-to-day onsite implementation and enforcement of the APP and the SSHP
- Performed a daily safety and health inspection and documenting results on the Daily Safety Inspection Log
- Ensured site compliance with federal, state, *USACE Engineer Manual (EM) 385-1-1* (USACE, 2008), and OSHA safety and health requirements; also ensured compliance with all aspects of the APP and SSHP, including but not limited to activity hazard analyses, air monitoring, use of personal protective equipment (PPE), decontamination, site control, Standard Operating Procedures (SOPs), and the safe use of engineering controls
- Maintained the emergency response plan, confined space entry procedures, and the spill containment program
- Prepared all safety-related records

- Stopped work if unacceptable health or safety conditions existed and took necessary action to reestablish and maintain safe working conditions
- Consulted with and coordinated any modifications to the APP and SSHP with the HSM, the SS, and the contracting officer or the contracting officer's representative
- Served as a member of Bristol's quality control (QC) staff on matters relating to safety and health, conducted accident investigations, and prepared accident reports
- Reviewed results of safety QC inspections and documented safety and health findings in the Daily Safety Inspection Log
- Recommended and oversaw corrective actions for identified deficiencies, in coordination with site management and the HSM.

4.3.3 Contractor Quality Control System Manager

Russell James served as the Contractor Quality Control System Manager (CQCSM) and had the authority to act in all contractor quality control matters for the project. Mr. James and the PM implemented the *CQCP*, ensuring that project quality objectives were met. He was the primary point of contact for environmental and regulatory matters in the field and was the liaison with the USACE quality assurance representative (QAR).

4.3.4 Laboratory Analysts

Bristol subcontracted TestAmerica Laboratories, Inc. (TestAmerica), to provide an on-site field laboratory for the duration of fieldwork. The analysts performed soil extractions, operated the gas chromatographs, and supplied the field team with field laboratory sample results.

4.3.5 First-Aid/Cardiopulmonary Resuscitation (CPR)/Medical Personnel

Bristol maintained an EMT III on site during the majority of fieldwork. The EMT III and all necessary medical supplies were stationed in a trailer dedicated as the onsite medical facility.

Bristol required all fulltime employees who performed fieldwork to maintain certification in first aid/CPR. Personnel received Universal Precautions and PPE training, as required

OSHA's "Bloodborne Pathogen standards" located in *29 CFR 1910.1030* (OSHA, 2014b). At least two fulltime Bristol staff members were available onsite at all times to render first aid, if required.

4.3.6 Site Workers and Subcontractors

A variety of onsite workers contributed to or provided support for the project's various tasks, including heavy equipment operators, craft laborers, surveyors, environmental, and medical personnel. Multiple subcontractors were used during the course of work and are listed in Table 4-1. Planning and safety documents were available to all site workers, including contractor and subcontractor personnel. Site workers were supplied with the information, instructions, and emergency response actions contained in the APP and SSHP, and they were held responsible for complying with the rules, regulations, and procedures therein.

Table 4-1 Major Subcontractors

Subcontractor	Assignment
ECO-LAND, LLC (ECO-LAND)	Surveying
Fairweather, LLC	Infirmary and Emergency Medical Services
Global Services, Inc.	Camp Services
TestAmerica Laboratories, Inc. (TestAmerica)	Fixed-Based Analytical Testing Laboratory and On-Site Field Laboratory

4.3.7 Site Visitors

Visitors arrived periodically throughout the duration of the 2014 field effort. The majority of visitors were residents of the Villages of Savoonga and Gambell who visited the site while hunting, fishing, or performing other subsistence activities. Personnel from the USACE visited the site on August 21, 2014 and October 2, 2014. Valerie Palmer (USACE PM), Ron Broyles (Contracting Officer Representative), Jeremy Craner (QAR) and Andrea Elconin (Native American Lands Environmental Mitigation Program PM) visited the site

on August 21, 2014; Lisa Geist (USACE Project Scientist), Valerie Palmer, Ron Broyles and Jeremy Craner visited on October 2, 2014. During each visit, the group spent approximately two hours visiting the project site and viewing work activities.

Bristol maintained a visitor signature sheet and required all visitors arriving by air to log their arrival to and departure from the NE Cape site. Visitors who arrived by all-terrain vehicle (ATV) or boat did not always sign in and out and were primarily visiting the Fish Camp located at Cargo Beach near Site 3. All visitors were briefed on the safety protocols of the site as well as general camp guidelines.

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5.0 LOGISTICS AND FIELD INVESTIGATION METHODS

5.1 MOBILIZATION/DEMOBILIZATION

Preparations for mobilization began in April 2014 with the staging of specialized equipment, materials, and shipping containers (Conexes) in either Anchorage, Alaska or in Seattle, Washington. Items purchased outside of Alaska were consolidated in Seattle, Washington, and transported by Alaska Marine Lines to Anchorage, Alaska in May 2014. At the Port of Anchorage, additional freight was loaded onto Alaska Marine Lines barges in early May 2014. The barges departed Anchorage in mid-May for Nome, Alaska.

Five Bristol personnel and the USACE QAR mobilized to the site on June 10, 2014 to collect soil samples from borings at Site 21. The crew completed sampling and departed from the site on June 14, 2014.

The primary mobilization for 2014 field work occurred on July 8 and 10, 2014 when the SS and the site setup crew (including the camp and catering subcontractor) mobilized to the site to prepare the temporary camp for summer activities. Global Services constructed the camp. The satellite communications system, including telephone and internet connections, was installed and established onsite by Satellite Alaska. Bristol maintained three phone lines during the course of fieldwork: one line was dedicated to Bristol's business operations; a second line was for the USACE; and a third (referred to as the "morale phone") was available to the field crew for personal use. Camp construction was completed by July 22, 2014. Removal work began on July 24, 2014, with the excavation of contaminated soil at the MOC.

Landing craft were also used to haul freight between Nome, Alaska and Cargo Beach. The first landing craft arrived at Cargo Beach on July 31, 2014. The Cargo Beach landing area is marked on Figure 3, along with all other NE Cape work sites utilized during the project.

Photographs of the beach landing operations and other site activities are displayed in the photograph log presented in Appendix D.

Nine field personnel demobilized on August 22, 2014 after the majority of field activities had been completed. Over the next eight days, the camp was deconstructed and 20 personnel departed the site. A seven person crew returned on September 24, 2014 to prepare cargo for offsite shipping and to assist with loading of the landing craft for marine transportation. The crew organized the heavy equipment and shipping containers at Cargo Beach and departed the site October 10, 2014.

Landing craft arrived at NE Cape between July 31 and October 17, 2014 to transport soil, bulk bags, miscellaneous debris, equipment, and supplies off-island. The marine transportation crew left 20 empty shipping containers at the NE Cape site (on the sides of Cargo Beach Road) that were to be picked up in 2015.

Three Bristol personnel returned to NE Cape for the final MI sampling event on October 21, 2014 following the removal of all bulk bags, shipping containers, and equipment from the Cargo Beach staging area. The sampling crew was able to arrive, collect MI soil samples from the Cargo Beach staging area, and depart the site on the same day.

5.2 Temporary Construction Camp

The temporary construction camp was set up on the gravel pad located adjacent to the airstrip and was designed to house approximately 40 people. Living quarters consisted of 13 individual WeatherPort Shelter System™ tents, each capable of housing four people. Two hard-sided trailer units were staged at the camp; one unit housed the field laboratory and the second unit served as the medical facility. In addition, the field crew used the trailers as sleeping quarters during initial camp set-up, during the soil boring sampling event at Site 21, and during the final phases of demobilization from the site.

Camp facilities included shared sleeping quarters; a medical dispensary; a recreation room; a dining facility; showers, laundry, and toilet facilities; a food storage container; satellite telephone and television system; and offices for Bristol, subcontractor, and USACE personnel. An onsite EMT III was on-site to provide emergency medical services during major remedial action work. The camp was fully operational between July 21 and August 22, 2014.

5.3 Air Support

Security Aviation, of Anchorage, Alaska, and Bering Air, of Nome, Alaska, provided air support services during the 2014 summer season. Security Aviation transported USACE personnel to the site on a Cessna Conquest in order to comply with U.S. Department of Defense (DoD) Directive 4500.53 and the DoD Commercial Review Board. King Air, Beechcraft 1900, Navajo and CASA aircraft (owned and operated by Bering Air out of Nome, Alaska) provided passenger flights for non-USACE personnel and delivered freight/cargo to the site. Approximately 45 round-trip flights were chartered during the 2014 construction season.

5.4 Field Survey

Bristol subcontracted ECO-LAND, LLC for 2014 surveying services. ECO-LAND's crew supported multiple survey-related activities, only some of which are listed:

- Delineated boundaries of targeted soil excavation areas at the MOC and relocated historical sample locations from the SOW Surveyed excavation extents, groundwater elevations, and decision unit (DU) boundaries
- Surveyed monitoring wells, soil borings, and sample locations
- Surveyed the topographic surfaces at the MOC, Site 6, Site 10, Site 21, and Site 32

Horizontal survey points reference the North American Datum of 1983, Alaska State Plane Zone 9. Topographic surfaces are recorded in U.S. survey feet. Vertical control references the North American Vertical Datum of 1988.

5.5 EQUIPMENT

Major equipment consisted of tracked excavators, heavy loaders, pickup trucks, rock trucks, road maintenance equipment, and utility task vehicles. Bristol's heavy-equipment mechanic serviced, maintained, and repaired equipment on site.

5.6 SITE ACCESS

Approximately 5.5 miles of gravel roads connect the various work areas at the site and require a small amount of maintenance each year, generally consisting of grading and adding minor amounts of fill. The section of road that leads south past the borrow area becomes a bulldozer trail which continues up the valley and onto the top of the Kinipaghulghat mountains. There are four stream crossings (three culverts and one bridge) within the work areas at NE Cape. Bristol did not perform any maintenance on the bridge or culverts during 2014 operations.

Bristol maintained the airstrip during field operations with frequent grading and compacting.

5.7 BACKFILL AND BORROW MATERIAL

In accordance with the quarry agreement with Kukulget Inc., and Sivuquqaq Inc., Bristol obtained borrow material from the borrow area, located approximately 2,000 feet south-southeast of the former White Alice antenna array (Appendix B). A total of 5,018 cubic yards of material were removed during field operations in 2014. The material was used primarily for backfill and road repair.

Planned excavation depths in POL-contaminated areas were based on results from the 2010 UVOST investigation and field observations made during previous removal actions. The POL plumes identified are subsurface areas where the laser-induced fluorescence (LIF) response of the UVOST correlated to concentrations of diesel range organics (DRO) or residual range organics (RRO) in soil that exceeded the site-specific cleanup level of

9,200 milligrams per kilogram (mg/Kg). Overburden material (soil overlying the POL plumes that does not exceed site-specific cleanup levels) that was excavated at POL-contaminated sites was stockpiled at various locations in the western and northwestern sections of the MOC (Figure 4) and used as backfill following the removal of soil that had contaminant concentrations exceeding cleanup levels. The stockpiled overburden was only used as backfill when field laboratory results indicated that DRO and RRO concentrations were below the site-specific cleanup level of 9,200 mg/Kg; when concentrations exceeded 9,200 mg/Kg, the soil was not used for backfill and was instead containerized at Pad 98 for offsite transportation and disposal (Figure 4). A total of 22 primary and four duplicate POL overburden analytical samples were collected from approximately 3,500 cubic yards of POL overburden. Five overburden samples exceeded site-specific cleanup criteria. This soil was transported to Pad 98 for containerization, and confirmation samples were collected in the footprint of the transported material.

5.8 Health and Safety

Health and safety plays a fundamental role in all of Bristol's jobs, without exception. Upon arrival, the crew began setting up the medical trailer and communications systems. An EMT was on site throughout during major remedial action work. Bristol conducted safety meetings on a daily basis, and all onsite personnel were encouraged to take a proactive role in addressing safety concerns and questions. Bristol's SS, SSHO, CQCSM, PM, and the USACE QAR frequently communicated about safety issues.

The SS and SSHO briefed field personnel, subcontractors, government personnel, and visitors directly upon arrival. Part of Bristol's safety routine involved the daily Toolbox Safety Meetings, held each morning before work began. These meetings discussed project-related work on the NE Cape site. Safety topics were chosen based on the day's activities or general project safety. Topics included weather conditions, footing conditions, equipment safety, housekeeping, and PPE. Bristol's subcontractors were completely

integrated into the health and safety program. Key subcontractor involvement with all parties included complying with one SSHP that applied to all workers. All workers, including subcontractors, attended the mandatory daily Toolbox Safety Meetings.

Minimum safety gear for all personnel included hard hat, reflective vest, steel-toe boots, safety glasses, and work gloves. Additional PPE was incorporated on a site-specific basis. For example; flame-resistant clothing was required for welding or cutting operations that produced flame or spark.

The Bristol SSHO performed safety and health walk-through inspections each day at the various work sites. These inspections enabled the SSHO to remain aware of site activities and conditions, look for existing or potential site safety issues/concerns, ensure appropriate use of PPE, and reinforce safe work practices. The daily safety inspections also provided material for the daily Toolbox Safety Meetings. Bristol incorporated incentives into the health and safety program. Each week, the SSHO would present a member, or members, of the field team with an award for outstanding safety practice.

In all, Bristol developed 13 activity hazard analyses for specific tasks and operations at NE Cape; several such analyses are presented in the APP (Bristol, 2014):

- Barge-loading operations
- Barge-unloading operations
- Contaminated sediment removal and disposal
- Debris removal and staging
- Drum removal
- Excavation less than 4 feet in depth
- Excavation greater than 4 feet and backfilling
- Fueling of vehicles and equipment
- POL and PCB soil removal disposal
- Site restoration
- Surface soil sampling

- Subsurface soil sampling
- Drilling and Well Installation.

Bristol invested 10,986.50 employee hours from contract inception through December 2014 under contract W911KB-14-D-0006, Task Order 0002. Work performed from June through December 2014 under contract W911KB-13-C-0004 consisted of 631 employee hours. No lost-time accidents occurred during 2014.

5.9 Soil Containerization and Bulk Bagging Operations

The majority of the work performed during the 2014 HTRW Remedial Action involved excavating, packaging, sampling, and transporting contaminated soils. Pertinent field personnel notes and other field documentation are included in Appendix E. To accomplish these tasks, Bristol relied heavily on the use of excavators, heavy loaders, and bulk bags.

Contaminated soil from the various work sites was loaded into triple-layered geotextile bulk bags capable of holding approximately 9 cubic yards of material and rated for up to 24,000 pounds. Bristol also used 5 cubic yard bulk bags that were rated for 15,000 pounds. The bulk bags comprise an outer woven material and two inner linings—one composed of impermeable plastic, and the other of felt fabric. Both the felt fabric and the woven outer material can be opened and closed via zippered openings. Prior to soil containerization, each bag was placed into a support structure (loading frame) that served to hold the bag open in an upright position while soil was transferred into the bag. A series of straps formed webbing around the bottom and sides of the bulk bags and served as the lift and support structure for bag hauling. These straps attached to a lift frame that was installed onto the forks of a heavy loader. The lift frame consisted of a steel support structure with a series of Crosby clip-hooks (eye/hoist-hooks) attached.

The bulk bags were installed into a loading frame and filled with contaminated soil. A waste characterization sample was collected from each bag and once seven bags were

sampled a composite sample of the seven bulk bags was created. The bags were then zipped shut and pulled from the frames by a loader. The bags were marked with fluorescent paint-marker and given a distinct identification (ID) number corresponding to their respective sites and waste characterization sample groups. The bags were then weighed and transported to an available staging area. The bags were loaded onto 20-foot shipping flats (i.e., metal pallets or skids) and staged at Site 26 in the southeastern portion of the MOC until they could be loaded onto a truck trailer and hauled to Cargo Beach. Bag loading and hauling operations required a two- to four-person labor crew, one member of the science team, and four equipment operators.

Section 5.12.2 provides information regarding waste characterization sampling of the bulk bag contents.

5.10 Waste Handling and Disposal

During the 2014 field season, Bristol excavated 4,916.00 tons of POL, arsenic, and/or volatile organic compound (VOC) contaminated soil, which was loaded into 521 triple-lined, U.S. Department of Transportation-approved bulk bags and shipped off island. The disposal facility re-weighed the bags for disposal and obtained a total weight of 5,149.65 tons. In addition to contaminated soil, Bristol loaded three Conex containers with 10.97 tons of miscellaneous metal and wooden debris collected throughout the NE Cape site. A total of 38 tons of sediment that had overwintered at Site 28 were loaded into two Conex containers and shipped off site for disposal. Table 5-1 lists the quantities of all soil excavated and additional waste materials generated, shipped, and disposed offsite during the 2014 field season.

Table 5-1 2014 Waste Material Disposal Volumes

Site Location and Waste Type	Quantity	Containers
MOC POL-Contaminated Soil (Field Measured Weight)	4,489.92 tons	457 bulk bags
Site 32 POL-Contaminated Soil	53.13 tons	7 bulk bags
Site 21 Arsenic-Contaminated Soil	107.35 tons	17 bulk bags
Site 10 POL- and VOC-Contaminated Soil	265.60 tons	40 bulk bags
Excavated Soil Totals	**4,916 tons**	**521 bulk bags**
Site 10 Tar Drums and Associated Contaminated Soil	1.27 tons	2 x 85-gallon drums
Site-Wide Miscellaneous Debris and Wire	10.97 tons	3 Conexes
Site 28 Containerized Sediment	38 tons	2 Conexes
Spent Methylene Chloride (from field laboratory)	15 pounds	5-gallon can
HACH Kit Wastewater (from field laboratory)	10 pounds	5-gallon HDPE jug
Site 10 Broken Lead-Acid Battery Debris	40 pounds	2 x 5-gallon buckets

Notes: Field-measured weights are shown
MOC = Main Operations Complex
POL = petroleum, oil, and lubricants
VOC = volatile organic compound

Two drums of tar and associated impacted soil were encountered during Site 10 excavation activities and were overpacked into 85-gallon salvage drums and shipped off site for proper disposal. Bristol disposed of a 5-gallon can of used methylene chloride that was a byproduct of field laboratory extraction activities. Bristol also disposed of a 5-gallon jerrican of wastewater produced from the HACH kit that was used to analyze for MNA parameters in groundwater. Two 5-gallon buckets filled with broken lead-acid battery pieces discovered across Site 10 during debris removal were shipped off site for disposal. The soil associated with the battery debris removal locations was tested for Resource Conservation and Recovery Act (RCRA) 8 metals (which includes lead). None of the of analytical results exceeded cleanup levels and the soil surrounding the battery debris removal locations was removed due to the presence of other chemicals of concern (COCs) with concentrations of contaminants above cleanup levels. The tar drums, methylene chloride, HACH kit wastewater, and broken battery pieces were shipped to Emerald Alaska, Inc. for disposal.

Wastes were classified in accordance with Title 40 of the CFR (Protection of Environment), specifically Parts 61, 261, and 761. Each hazardous waste type was evaluated to identify all applicable treatment standards in 40 CFR 268 (Land Disposal Restrictions). Wastes shipped off island were placarded in accordance with 49 CFR 172, Subpart F (Placarding). Labels and placards were affixed to all sides of containers used for shipping of the RCRA-regulated hazardous waste containers. Copies of manifests, Bills of Lading, Certificates of Disposal, and weight tickets and other waste documentation are provided electronically in Appendix F.

Table 5-2 provides a listing of non-regulated waste materials generated and shipped off-site during the 2014 field season.

Table 5-2 2014 Non-Regulated Waste Disposal Summary

Waste Type	Final Treatment/ Disposal	Final Disposal Facility	Approximate Disposal Quantity
Miscellaneous debris, including wood, metal, rubber and wire	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	10.97 tons
POL-contaminated soil from the MOC, Non-RCRA	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	4,489.92 tons
POL-contaminated soil from Site 32	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	53.13 tons
Arsenic-contaminated soil from Site 21	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	107.35 tons
POL- and VOCs contaminated soil from Site 10	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	265.6 tons
Two 85-gallon drums of tar and tar contaminated soil from Site 10	Disposal in Subtitle D Landfill	Emerald Alaska, Anchorage, Alaska	1.27 tons
Contaminated Sediment from Site 28	Disposal in Subtitle D Landfill	Columbia Ridge Recycling & Landfill - Arlington, OR	38 tons

Notes: Field-measured weights are shown.

< = less than
> = greater than
OR = Oregon
PCB = polychlorinated biphenyl
POL = petroleum, oil, and lubricants
RCRA = Resource Conservation and Recovery Act
TSCA = Toxic Substances Control Act
VOC = volatile organic compound

Table 5-3 provides a listing of RCRA-regulated hazardous wastes generated and shipped off-site during the 2014 field effort.

Table 5-3 Hazardous Waste Disposal Summary

Manifest No.	Container Type	Contents	Date Shipped	Final Disposal Facility
0004786137FLE	5-gallon drum	Methylene Chloride	10/17/2014	Clean Harbors Aragonite, LLC
0004786138FLE	2 x 5-gallon buckets	Broken Lead-Acid Battery Debris	10/17/2014	US Ecology Idaho, Inc.
0004786138FLE	5-gallon HDPE jerrican	Wastewater from HACH Kit	10/17/2014	US Ecology Idaho, Inc.

5.11 DECONTAMINATION

Decontamination procedures are instituted to protect the environment and personnel and to maintain the quality and integrity of environmental samples. Bristol incorporated decontamination procedures during all sampling events and implemented protocols for decontaminating heavy equipment operated during excavations.

Bristol used new tubing for each monitoring well or surface water sample location. The tubing was discarded following each sample collection. Field personnel decontaminated a submersible pump, when used, between each well by disassembling the pump and cleaning it in an Alconox solution and then rinsing it with filtered water and deionized water. The YSI water quality meter and accessory flow-through cell were cleaned in a similar fashion with Alconox and a double rinse.

Sampling personnel donned new nitrile gloves for every sample collected. Reusable sampling equipment like stainless steel spoons and trowels were washed in an Alconox solution and rinsed with potable and deionized water.

Field personnel decontaminated excavators by using a dry-brush technique before site demobilization. Dry-brushing removes gross soil particles from all parts of the equipment

that encountered contaminated soils. Whenever an excavator was used for soil sampling, its bucket was thoroughly dry-brushed between samples. Before site demobilization, excavator tracks were cleaned with shovels and brushes, without the use of water.

5.12 ENVIRONMENTAL SAMPLING

Bristol collected numerous samples from different media during the project for a variety of reasons. Soil samples were collected from bulk bags for waste characterization purposes. Confirmation soil samples were collected from excavations at the MOC, Site 21, Site 10, and Site 32 to determine if contaminants remained in soil after removal efforts. Soil, groundwater, and surface water samples were collected from the MOC, Site 21, and Site 8 to further characterize the sites, monitor for natural attenuation, and monitor impacts from construction activities. Soil samples were collected from Sites 6, 10, 27, and 32 to investigate areas where historical sampling indicated contamination in concentrations exceeding cleanup levels. All samples were collected in accordance with ADEC *Draft Field Sampling Guidance* (ADEC, 2010), *Northeast Cape HTRW Remedial Actions Work Plan* (Bristol, 2014), and associated Bristol SOPs (Appendix G). Appendix H contains sample data tables and analytical results.

5.12.1 Confirmation Soil Sample Collection from POL Sites

Bristol followed confirmation sampling protocols commensurate with the ADEC *Draft Field Sampling Guidance* (ADEC, 2010). Samples were collected at a rate of one per 20 linear feet along excavation sidewalls. Two floor samples were collected for the first 250 square feet of excavation floor, plus one for each additional 250 square feet. The POL sites were excavated to 15 feet bgs, 2 feet below the water table, or until confirmation samples indicated that soil was below the cleanup level. Samples were collected from flooded excavation floors one per 1,600 square feet of excavation-floor area as approved by ADEC in 2010 on a site-specific basis for POL excavations only at NE Cape. Confirmation samples from flooded excavations or excavations that were not safe to enter were

collected with the aid of an excavator bucket. Sampling personnel donned a new pair of nitrile gloves prior to collecting each sample. The excavator bucket was decontaminated between each sample. Samples were collected into appropriately sized glass jars, labeled with a unique ID and necessary analytical notes, and shipped under Chain of Custody to TestAmerica. Bristol's SOP for soil sampling is included in Appendix G.

5.12.2 Waste Characterization Sample Collection

Bristol collected waste characterization samples from all wastes that were shipped off island, and soil samples from bulk bags that were loaded with POL-, arsenic-, and VOC-contaminated soils originating from the MOC, Site 21, Site 10, and Site 32.

Bristol used analytical results from the field laboratory to characterize POL-contaminated soils. Each POL waste characterization sample consisted of a composite of seven discrete samples collected with a stainless steel scoop from seven bulk bags. The discrete sample, or aliquot of the composite, was collected from each side of an individual bulk bag and placed into a stainless steel bowl where the soil was homogenized. The homogenized soil from seven bulk bags was then scooped into a 4-ounce sample jar, given an ID that corresponded to the group of bags from which the sample was collected, and submitted to the field laboratory for DRO and RRO analysis.

The arsenic waste characterization samples consisted of a composite from seven bulk bags. The composited arsenic samples were collected using a stainless steel scoop, placed into pre-cleaned, 4-ounce glass jars, and shipped under chain-of-custody to TestAmerica for arsenic analysis.

Volatile and nonvolatile waste characterization samples were collected at Site 10; volatile samples were collected into pre-tared, 4-ounce jars and preserved with methanol, and nonvolatile samples were collected into unpreserved 8-ounce jars.

5.12.3 Surface Water and Groundwater Sample Collection

Bristol collected surface water samples into new, clean sample containers. Sample collectors slowly dipped a 1-liter jar into water sources at the MOC, Site 21, and Site 8 and then transferred water into appropriate sample containers for the specified analyses. TestAmerica analyzed surface water samples.

Groundwater samples were collected from monitoring wells within the MOC and are discussed in Section 6.2. Bristol's SOP for groundwater sampling is included in Appendix G.

5.13 Field Laboratory

TestAmerica provided an onsite field laboratory for DRO and RRO analysis in soils. The laboratory was DoD Environmental Laboratory Accreditation Program (ELAP)-certified for soil analysis by Alaska Test Method (AK) 102/103 and ADEC-approved by *Title 18 of Alaska Administrative Code (AAC) Chapter 78 - Underground Storage Tanks* (ADEC, 2013a). ELAP and ADEC certification can be found in Attachment 4 of Appendix I. Two TestAmerica analysts were onsite during the entire operation of the field laboratory.

The samples that were analyzed using the onsite field laboratory were considered both field screening samples *and* confirmation samples. If concentrations of DRO/RRO identified in the samples were above the cleanup level threshold, then they were considered field screening samples. Samples exhibiting concentrations of DRO/RRO below the cleanup level were considered confirmation samples.

A total of 155 DRO/RRO soil samples were analyzed using the onsite field laboratory.

6.0 TASK-ORIENTED FIELD ACTIVITIES

This section details Bristol's 2014 site work as identified in the SOW. Appendix H contains the sample data tables referenced in this section. Pertinent field personnel notes and other field documentation are included in Appendix E.

6.1 MOC MONITORING WELL INSTALLATION AND DEVELOPMENT

Bristol installed and developed seven groundwater monitoring wells, 14MW01 through 14MW07, at the MOC gravel pad. Well locations were selected by the USACE and are presented on Figures 5, 6 and 7. Bristol subcontractor, GeoTek Alaska, Inc., installed and developed the wells in accordance with *ADEC Monitoring Well Guidance* document (ADEC, 2013b) and the USACE *EM 200-1-3 - Requirements for the Preparation of Sampling and Analysis Plans* (USACE, 2001). Monitoring wells 14MW02, 14MW03, 14MW04, 14MW05 and 14MW06 were advanced in the footprint of previous POL soil removal actions and portions of the screened interval was placed within backfill material consisting of POL excavation overburden containing COCs in concentration below site-specific criteria. Table 6-1 presents well construction details for groundwater monitoring wells installed in 2014.

Table 6-1 Monitoring Well Construction Details

Well ID	Top of Screen (feet bgs)	Screen Length (feet)	Total Well Depth (feet bgs)	Previous Removal Actions Within Depth of Screened Interval?	Well Location Relative to UVOST Delineated POL Plumes
14MW01	12	10	22	No	Downgradient
14MW02	7	10	17	Yes	Source
14MW03	12	10	22	Yes	Source
14MW04	5	10	15	Yes	Source
14MW05	5	10	15	Yes	Source
14MW06	5	10	15	Yes	Source
14MW07	23	10	33	No	Upgradient

Notes:
bgs = below ground surface
POL = petroleum, oil, and lubricants
UVOST = Ultra Violet Optical Screening Tool

A direct push rig was used to advance soil borings prior to hollow-stem auger well-boring advancement. Refusal was encountered during the installation of wells 14MW03 and 14MW07 at the MOC. Refusal at 14MW03 was encountered at 5 feet bgs during four drilling attempts: one at the originally planned location and three additional locations within a 5-foot radius. The decision was made, after consulting with the QAR, to excavate the proposed location of 14MW03 to a depth of 10 feet bgs and backfill the excavated area with unimpacted, screened (2-inch minus) borrow material. The excavation to 10 feet bgs unearthed boulders. Soil was not visibly impacted and fuel odors were not detected. Excavated material was compacted in approximately 1-foot lifts using heavy equipment. Well 14MW03 was then advanced within the footprint of backfilled material to a depth of 22 feet bgs. The depth of the groundwater in the soil boring was estimated at 15 feet bgs, and was measured at 13.35 feet in the completed well. While the depth of the 2014 excavation did not extend to the depth of the screened interval of 14MW03, previous POL

removal actions at this location in 2013 extended to a depth of 14 feet bgs, within the screened interval of the well.

Drilling at 14MW07 was difficult and slow due to an abundance of boulders in the subsurface and refusal was encountered at 24 feet bgs. The boring was completed with the screened interval from 14 to 24 feet bgs and the well was left overnight. The well was dry the next day. Following discussions with the QAR, an alternate location was chosen approximately 10 feet northeast of the dry well. The dry well was removed and abandoned in accordance with ADEC guidelines (ADEC, 2013b). The new well location was excavated to a depth of 14 feet bgs and backfilled with unimpacted, screened (2-inch minus) borrow material (similar procedures as 14MW03). The backfill was compacted in approximately 1-foot lifts using heavy equipment. Well 14MW07 was then advanced through the backfill to a total depth of 33 feet bgs. The top of the screened interval at 14MW07 is below the extent of the excavation.

Bristol collected and analyzed primary soil samples, two from each soil boring location, for benzene, toluene, ethylbenzene, and xylenes (BTEX); gasoline range organics (GRO); DRO; RRO; polynuclear aromatic hydrocarbons (PAHs); PCBs; and 8 RCRA metals plus nickel, vanadium, and zinc. Soil boring locations and soil boring sampling results that exceed ADEC Method Two Soil Cleanup Levels identified in *18 AAC 75.341* (ADEC, 2014) are shown on Figure 6. One soil sample was collected from at the water table and one soil sample was collected from the bottom of each boring. Wells 14MW04 and 14MW05 were installed within the footprint of previous soil removal excavations (backfilled areas) and were to be sampled within the interval of greatest fuel impact or the vertical middle of the fill zone; in both well locations this interval was located at the water table.

The only exceedances of ADEC Method Two Soil Cleanup Levels (ADEC, 2014) were reported in soil sample 14NCWELLSS15 (well 14MW06) with concentrations of 1-

methylnaphthalene at 16 mg/Kg and 2-methylnaphthalene at 22 mg/Kg (Figure 6 and Table H1). The ADEC Method Two Soil Cleanup Levels (migration to groundwater exposure pathway) for 1-methylnaphthalene and 2-methlynaphthalene are 6.2 mg/Kg and 6.1 mg/Kg, respectively (ADEC, 2014). This soil sample was collected approximately 8 feet bgs from the soil boring associated with monitoring well 14MW06, located within the J1A plume. The soil sample was collected from fill material at the water table.

Soil boring laboratory analytical results are presented in Table H1 (Appendix H) and soil boring logs are located in Appendix E. With the exception of the two exceedances listed above, no other soil samples contained contaminant concentrations exceeding applicable site-specific cleanup levels (USACE, 2009) or ADEC Method Two Soil Cleanup Levels (ADEC, 2014) evaluation criteria. GRO detections below cleanup levels were reported in wells 14MW01, 14MW02, 14MW03 14MW04, 14MW05 and 14MW06. DRO detections below cleanup levels were reported in all seven wells (14MW01 thru 14MW07). The only detection of RRO was reported in well 14MW04. Several BTEX analytes were seen in wells 14MW02, 14MW03, 14MW04, 14MW05, and 14MW06.

The prepacked monitoring wells were installed with an 8-inch diameter hollow-stem auger (and constructed of 2-inch diameter, schedule-40 polyvinyl chloride (PVC) well screen with 0.010-inch slotted screen with threaded end caps. The screen was connected to 2-inch diameter blank PVC pipe with threaded connections. A 10-foot well screen was installed in each well and positioned to span the zone of water table fluctuation. The filter pack around the screened interval was 20/40 rounded silica sand held in place by a stainless steel mesh screen. The sand pack consisted of 10/20 silica sand backfilled to approximately 2 feet above the top of the screen. The remainder of the annulus space consisted of bentonite chips backfilled around the PVC from the top of the sand pack to approximately one foot below the surrounding ground surface. The bentonite was

backfilled in 2-foot increments and hydrated in place. Well depths ranged from 15 to 33 feet bgs.

The wells were completed flush with the ground surface with an 8-inch diameter steel manhole encased in concrete. To mitigate frost-jacking, a sono-tube was used for the concrete form and rounded gravel was used as a barrier between the sono-tube and the ground. A well plug was installed on the top of each monitoring well and secured with a combination lock. Well construction logs are located in Appendix E. Well construction and soil boring logs for wells remaining at the MOC that were installed in previous years are also included in Appendix E.

Wells were developed a minimum of 24 hours after installation and surface completion. Bristol developed the monitoring wells by using combinations of water surging and pumping. Surging and pumping continued until the well ran dry or turbidity decreased to acceptable levels. When a well was pumped dry, a casing volume of distilled water was introduced into the well and the well was again surged and pumped dry.

Investigation-derived waste (IDW) water was containerized and treated on site with a granular activated carbon filter. Soil generated during soil boring advancements and well installations was added to bulk soil being excavated from the MOC and containerized in bulk bag containers at Pad 98.

6.2 MOC Groundwater Sampling, Results, and MNA Discussion

As part of the SOW, Bristol collected groundwater samples from seven existing and seven newly installed monitoring wells within the MOC, analyzed the results, and compared the results with historical data to determine whether natural attenuation is occurring in groundwater at the site. One existing well (MW88-3) which had been scheduled for decommissioning in 2014, due to having what was previous suspected as have a broken or pinched casing, was found to be serviceable and was added to the sampling event at the

request of the QAR. With the addition of monitoring well MW88-3, a total of 15 wells were sampled in 2014. Based on a previous ADEC request, and only where achievable, groundwater samples were to be collected from any monitoring well scheduled for decommissioning. Of the three groundwater wells scoped for decommissioning, only monitoring well MW88-3 was found to be serviceable and was added to the list of wells to be sampled.

The 6.2 subsections describe the history of the MOC site and present 2014 groundwater sampling results.

6.2.1 MOC Site Description and Well Sampling History

The MOC contained the majority of the site's infrastructure and was partitioned into various sites throughout its history. Sites 10, 11, 13, 15, 16, 19, and 27 are located within or near the MOC. Site 11 historically contained three 400,000-gallon ASTs, one of which was punctured in the late 1960s, leading to a large release of diesel fuel. Other potential contaminant sources came from Site 13, the former Heat and Power Plant, which contained a variety of ASTs and underground storage tanks (USTs), diesel generators, and power transformers; Site 15, where a fuel pipeline break resulted in a diesel fuel spill; the Site 16 Paint and Dope Storage building, originally a flammable liquids storage facility with an AST; Site 19, which once contained an auto maintenance building; and Site 27, an equipment and vehicle refueling area consisting of a small shed and a concrete valve box attached to a buried fuel pipeline that was connected to the large ASTs at Site 11 (USACE, 2009). The MOC's infrastructure, including buildings, tanks, and piping, had been demolished and transported off site during 2000 through 2005 removal actions (USACE, 2009). Primary contamination sources included the ASTs USTs, and all associated piping that contained fuel products; secondary sources included residual subsurface fuel-contaminated soil caused by historical spills. Electrical transformers, 55-gallon drums, and miscellaneous activities contributed to site contamination (USACE, 2009). Historically,

COCs observed in soil at the MOC above site-specific cleanup levels are DRO, PCBs, and naphthalene and DRO, benzene and arsenic in groundwater. Soil and groundwater have previously been tested for RRO, VOCs, semivolatile organic compounds (SVOCs), metals and pesticides. USACE initiated a program in 2010 to monitor natural attenuation in groundwater at the MOC. Ten wells were initially selected for the monitoring program based on historical results, physical proximity to the MOC, and ability to monitor groundwater that intersects with the MOC and other known contaminant areas, but a physical evaluation determined that only nine wells were suitable for the MNA sampling program. The nine monitoring wells selected by the USACE for sampling and monitoring include MW88-1, MW88-4, MW88-5, MW88-10, MW10-1, 17MW1, 22MW2, 20MW1, and 26MW1.

In 2010, wells MW88-4, MW88-5, and MW88-10 contained contaminant concentrations exceeding cleanup levels identified in both the *2009 Decision Document* (USACE, 2009) and identified in Table C – Groundwater Cleanup Levels found in *18 AAC 75.345* (ADEC, 2014) (Figure 7). All three wells exceeded the groundwater cleanup level of 1.5 milligrams per liter (mg/L) for DRO at 3.3 mg/L, 12 mg/L, and 1.6 mg/L, respectively. Well MW88-5 also contained concentrations of benzene and RRO at 0.0093 mg/L and 1.6 mg/L, respectively, which exceeds the cleanup criteria of 0.005 mg/L and 1.1 mg/L. In 2011, monitoring wells MW88-4 and MW88-5 contained DRO concentrations of 2.3 mg/L and 7.5 mg/L, respectively. MW88-4 contained benzene and arsenic concentrations of 0.0094 mg/L and 0.011 mg/L, respectively. MW88-5 contained benzene and RRO concentrations of 0.020 mg/L and 2 mg/L, respectively. DRO in MW88-10, which exhibited concentrations in excess of cleanup level in 2010 at 1.6 mg/L, did not exceed cleanup levels in 2011. In 2012, monitoring wells MW88-4, MW88-5, and MW88-1 contained contaminant concentrations that exceeded cleanup levels. The wells contained concentrations of DRO at 2.0 mg/L, 4.6 mg/L, and 1.9 mg/L, respectively. MW88-5

contained a benzene concentration of 0.02 mg/L in 2011 and 0.0064 mg/L in 2012, a 68% reduction. The 2010 benzene concentration was 0.0093 mg/L. In 2012, MW88-4 contained dissolved arsenic at 0.011 mg/L, the same concentration as was observed during the 2011 sampling event. MW88-4 and MW88-5 were located within the footprint of excavation and removal activities associated with the E plume and were decommissioned, including removal and demolition after sampling was completed in 2012 (Bristol, 2013). In 2013 none of the sampled wells contained COCs in concentrations exceeding cleanup levels.

In 2014, Bristol sampled eight existing monitoring wells and seven new monitoring wells at the MOC.

6.2.2 Groundwater Monitoring and Sampling Activities

Seven newly installed and eight existing groundwater monitoring wells were sampled with a Monsoon positive pressure submersible pump using a low-flow sampling protocol, in accordance with Section IV of the ADEC *Draft Field Sampling Guidance* (ADEC, 2010). Parameters including temperature, pH, dissolved oxygen (DO), conductivity, and oxygen-reduction potential, were collected using an YSI 556 meter with flow-through cell; turbidity was measured with a HACH portable turbidimeter; and water level was measured with a water level meter. During the low-flow purge procedure, water quality parameters were measured, recorded, and allowed to stabilize for up to one hour prior to sample collection. One monitoring well, 14MW07, was purged dry at the lowest pump flow rate of 120 milliliters per minute (mL/min). This well was allowed to recharge prior to sampling. Groundwater samples were collected directly from 0.125-inch, Teflon-lined, high-density polyethylene tubing into the appropriate collection vessels. IDW purge water was collected into 5-gallon buckets and treated with granular activated carbon prior to being discharged onto the ground. Purge water was treated and discharged within 20 feet of each monitoring well's location. Copies of the groundwater purging and sampling

field forms are provided in Appendix E. On August 25th, once all wells had fully recharged, depth to water was measured within a 30 minute time window for the purpose of creating a potentiometric surface map (Figure 5).

6.2.3 MOC Groundwater Sampling Results

A total of 15 primary groundwater samples and two field duplicate samples were collected from monitoring wells at the MOC between August 20 and August 23, 2014. Groundwater samples were submitted for analysis of BTEX, PCB, GRO, DRO, RRO, metals (total and dissolved), PAHs, and methane. One groundwater sample collected from well MW10-1, located downgradient from Site 10 was also analyzed for glycols and VOCs. Samples were shipped under chain-of-custody to TestAmerica in Tacoma, Washington, for analysis. HACH kits were used in the field laboratory to collect the natural attenuation parameters for manganese, ferrous iron, sulfate, nitrate, and alkalinity. The natural attenuation parameters from 2010 through 2014 are presented in Table H2 (Appendix H), and Figure 5 shows the potentiometric groundwater surface and the locations of the monitoring wells sampled at the MOC. Groundwater levels measured on August 25, 2014, indicated that groundwater flow was predominantly northwest.

Figure 7 depicts all monitoring wells that were sampled in 2014, along with select analytical results for wells where contaminant concentrations have historically exceeded cleanup levels. Full laboratory analytical results for MOC groundwater monitoring wells are presented in Table H3 (Appendix H). Monitoring wells 14MW03, 14MW04, 14MW05, and 14MW06 contained concentrations of DRO, exceeding the cleanup level of 1.5 mg/L, at 2.4 mg/L, 2.5 mg/L, 4.9 mg/L and 5.2 mg/L (QL-flagged), respectively. Monitoring wells 14MW03 and 14MW07 contained concentrations of total lead exceeding the cleanup level of 0.015 mg/L at 0.062 mg/L and 0.13 mg/L respectively. Groundwater in wells 14MW03 and 14MW07 was turbid, having turbidity measurements of 941 nephelometric turbidity units (NTU) and >1000 NTU, respectively. Well 14MW07

was purged dry at a low pump rate (< 100 mL/ min). It was allowed to recharge prior to sample collection. Dissolved lead concentrations from groundwater filtered in the field did not exceed cleanup levels at 14MW03, 14MW07, or any other well locations. No other analytes were present in concentrations exceeding cleanup levels in any other samples.

Table 6-2 presents sample results for wells that had concentrations of contaminants that exceeded cleanup criteria during the 2004, 2010, 2011, 2012, 2013, or 2014 sampling events.

Table 6-2 Current and Historical Groundwater Sample Results that Exceed Cleanup Criteria

	Matrix	Water	Water	Water	Water	Water	Water	Water
	Method	8260B	AK101	AK102	AK103	6020	6020	6020
	Analyte	Benzene	GRO (C6–C10)	DRO (nC10–<nC25)	RRO (nC25–nC36)	Arsenic-Dissolved	Lead-Total	Lead-Dissolved
	Cleanup Level	0.005	1.3	1.5	1.1	0.01	0.015	0.015
	Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	Year							
88-4*	2002	**0.03**	1.2	**72**	**1.9**	--	--	--
	2004	**0.0337**	1.25	**3.89**	**1.46**	--	0.00502	--
	2010	0.0024	0.24	**3.3**	0.43	0.0085	0.002	0.0007 J
	2011	**0.0094**	0.4	**2.3**	0.55	**0.011**	0.0013 J	0.00032 J
	2012	0.0048	0.31	**2.0**	0.24	**0.011**	0.0019 J	ND (0.00025)
88-10	2002	0.0027	0.12	**55**	**1.3**	--	--	--
	2004	ND (0.0004)	0.0357	1.38	ND (0.549)	--	**0.0376**	--
	2010	ND (0.00015)	ND (0.044)	**1.6**	0.036 J	ND (0.0004)	0.0015 J	0.00072 J
	2011	ND (0.00045)	ND (0.044)	0.54	0.15	ND (0.0038)	0.00083 J	0.00035 J
	2012	ND (0.00045)	ND (0.044)	0.50	0.064 J	ND (0.004)	0.00076 J	0.00022 J
	2013	ND (0.00045)	ND (0.05) B	0.97	0.043 J	ND (0.004)	ND (0.015) B	ND (0.00025)
	2014	ND (0.00040)	0.021 J	0.66	0.041 J	ND (0.004)	0.0011 J	0.00020 J

Table 6-2 Current and Historical Groundwater Sample Results for Select Monitoring Wells (continued)

	Matrix	Water	Water	Water	Water	Water	Water	Water
	Method	8260B	AK101	AK102	AK103	6020	6020	6020
	Analyte	Benzene	GRO (C6–C10)	DRO (nC10–<nC25)	RRO (nC25–nC36)	Arsenic-Dissolved	Lead-Total	Lead-Dissolved
	Cleanup Level	0.005	1.3	1.5	1.1	0.01	0.015	0.015
	Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	Year							
88-5*	2002	**0.019**	**1.3**	**9.8**	**2.3**	--	--	--
	2004	**29.7**	**1.5 J**	**11.3**	**2.28**	--	0.012	--
	2010	**0.0093**	0.19	**12**	**1.6**	0.0028	0.0029 J	0.0011 J
	2011	**0.020**	0.24	**7.5**	**2.0**	0.0052	0.0019 J	0.00046 J
	2012	**0.0064**	0.16	**4.6**	0.58	0.0055	0.0021	0.00023 J
88-1	2002	0.00058	0.024	1.2	0.43	--	--	
	2004	ND (0.0004)	0.0141 J	ND (0.345)	0.168 J	--	0.001 B	--
	2010	ND (0.00015)	ND (0.05)	0.75	0.037 J	ND (0.0004)	ND (0.0029)	ND (0.0004)
	2011	ND (0.00045)	ND (0.044)	0.74	0.26	ND (0.0038)	0.0016 J	0.00021 J
	2012	ND (0.00045)	ND (0.044)	**1.9**	0.15	ND (0.004)	0.00041 J	ND (0.00025)
	2013	ND (0.00045)	ND (0.044)	0.22	0.05 J	ND (0.004)	ND (0.0025)	ND (0.00025)
	2014	ND (0.00040)	ND (0.044)	0.21	0.043 J	ND (0.004)	0.0027	0.00025 J
14MW03	2014	0.001	0.19	**2.4**	0.21	ND (0.0040)	**0.062**	ND (0.00025)
14MW04	2014	ND (0.0004)	0.051	**2.5**	0.54	ND (0.0040)	0.0064	0.0014 J
14MW05	2014	ND(0.002)	0.36	**4.9**	0.55	ND (0.0040)	0.010	0.00029 J

Table 6-2 Current and Historical Groundwater Sample Results for Select Monitoring Wells (continued)

	Matrix	Water	Water	Water	Water	Water	Water	Water
	Method	8260B	AK101	AK102	AK103	6020	6020	6020
	Analyte	Benzene	GRO (C6–C10)	DRO (nC10–<nC25)	RRO (nC25–nC36)	Arsenic-Dissolved	Lead-Total	Lead-Dissolved
	Cleanup Level	0.005	1.3	1.5	1.1	0.01	0.015	0.015
	Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Well ID	Year							
14MW06	2014	0.0007 J	0.22	**5.2**	0.28	0.0062	0.0027	ND (0.00025)
14MW07	2014	0.00072 J	0.026	0.15	0.043 J	ND (0.0040)	**0.13**	0.0015 J

Notes: *well was abandoned in 2012

BOLD = sample result exceeds cleanup level

-- = not analyzed

< = less than

AK = Alaska Test Method

B = analyte detected in method blank at less than 10 times the sample concentration

DRO = diesel range organics

GRO = gasoline range organics

J = result is an estimate

mg/L = milligrams per liter

ND = non-detect; limit of detection in parentheses

RRO = residual range organics

6.2.4 MNA Results

MNA parameters were measured in samples collected from monitoring wells at the MOC. Historic and 2014 data were evaluated to determine whether groundwater conditions at the MOC support natural degradation of petroleum constituents by naturally occurring microbes. MNA parameters measured in groundwater samples collected from monitoring wells at the MOC are presented in Table H2 (Appendix H). Analytical results for groundwater samples collected at the MOC are presented in Table H3 (Appendix H).

A YSI 556 water quality multi-meter was used to measure water quality parameters in the field during well purging. Specifically, the meter measured dissolved oxygen, oxidation-reduction potential (ORP, aka redox), temperature, specific conductance, and pH. Subsamples were collected in unpreserved poly containers and were field-analyzed for nitrate (NO_2), dissolved manganese (MnII), ferrous iron (FeII), and sulfate (SO_4) using a

HACH® spectrometer. Alkalinity was measured with HACH® test strips and methane was analyzed in the fixed based analytical laboratory. The following paragraph generally describes how groundwater MNA parameters may be interpreted.

A positive ORP value indicates conditions are amenable for oxidation chemical reactions, while a negative ORP value indicates conditions are amenable to reducing chemical reactions (i.e., a reduced environment exists). The presence of dissolved oxygen in groundwater increases aerobic microbial activity and is the preferred terminal electron acceptor for beta-oxidation. In the absence of dissolved oxygen, nitrate, manganese (IV), ferric iron (Fe III) and sulfate (SO_4) act, in the order listed, as terminal electron acceptors for microbial respiration. Byproducts of microbial respiration are carbon dioxide (measured as alkalinity), nitrite, dissolved manganese (MnII), ferrous iron (FeII), sulfide, and methane. Methane is anaerobically produced by microbes when no other oxidation source, such as dissolved oxygen or nitrate, is present. The presence of methane indicates anaerobic respiration (methanogenesis) is occurring. Aerobic respiration is comparatively faster than anaerobic respiration. Anaerobic respiration is also dependent on the relative abundance of anaerobic microbes (facultative and/or obligate), such as hydrocarbon degrading bacteria. Facultatively anaerobic bacteria possess the ability to degrade carbon forms in both aerobic and anaerobic conditions. The rate of aerobic and anaerobic respiration is temperature dependent; respiration rate increases with increasing temperature and decreases with decreasing temperature.

The groundwater contours shown on Figure 5 were created using groundwater elevation data collected from all wells within a half-hour time window on August 25, 2014. The groundwater contours indicated that groundwater generally moves through the MOC subsurface in a northwesterly direction from Kangukhsam Mountain toward Site 28 where groundwater surfaces as springs or seeps near the MOC/Site 28 boundary (Figure

4). Permanent wells do not exist in Site 28 because permanent wells would be destroyed by the heaving soil during freeze/thaw cycles.

During 2014, surface water samples were collected from three locations for petroleum analysis near the MOC/Site 28 boundary (MOCSW01, MOCSW02, and MOCSW03, shown on Figure 4). Surface water samples were collected from the three locations prior to, during, and following site excavation activities. Surface water sampling results were compared to applicable surface water evaluation criteria listed in the *2009 Decision Document* (USACE, 2009) and in the *Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances* (ADEC, 2008). Surface water analytical results indicated no total aromatic hydrocarbon (TAH) or total aqueous hydrocarbon (TAqH) exceedances, and no sheen was observed during sample collection. Refer to Section 6.4.2.4 and Table H7 (Appendix H) for detailed surface water sample results for the MOC.

Groundwater samples were collected from 15 monitoring wells at the MOC in 2014 (Figure 5). Wells MW 88-4 and MW88-5 were removed in 2012 after sampling because they were located within an area where POL-contaminated soil was excavated and subsequently backfilled. These wells historically contained concentrations of POL constituents exceeding cleanup criteria prior to their removal and abandonment. Historical groundwater data associated with the removed wells are presented in Figure 5 in grey shading. The following paragraphs describe groundwater conditions at each monitoring well, beginning with the upgradient wells and continuing downgradient through the MOC. Five year averages of selected parameters from Bristol sampling events from 2010 to 2014 are presented for wells where groundwater parameters are stable and do not show a general increasing or decreasing trend. These wells are upgradient of removal actions at the MOC.

Well 26MW-1 was installed in 2004 upgradient of all known sources of POL contamination at the MOC and had the highest groundwater elevation (72.98 feet above msl) of all MOC monitoring wells during 2014. Analytical results for the sample collected from this well during 2014 did not indicate detections of GRO, DRO, RRO, or methane. The 5-year average, dissolved oxygen concentration from 2010 through 2014 was 12.8 mg/L and was the highest average dissolved oxygen concentration of all monitored wells. The 5-year average ORP value was also the highest value of all sampled wells with an average value of 211 millivolts (mV). The average sulfate concentration was 7.6 mg/L. Nitrate was near the method detection limit, which indicated the groundwater lacked nutrients. These data indicate groundwater in the vicinity of this well was not impacted by petroleum and was in an aerobic state.

Well 22MW2 is located upgradient of UVOST-delineated POL plumes at the MOC. The 2014 groundwater sample results for 22MW2 were primarily non-detect (ND) for all petroleum analytes with the exception of a very low GRO result of 0.017 mg/L (J, B flagged). The GRO result may have been a result of cross-contamination at the lab as indicated by the B flag. Methane was not detected. MNA field parameters measured in groundwater collected from well 22MW2 were similar to 26MW1 with a 5-year average dissolved oxygen concentration of 12.3 mg/L and an average ORP value of 157 mV. These data indicate groundwater in the vicinity of this well is likely not impacted by petroleum and was in an aerobic state.

Well 20MW1 is located upgradient of UVOST-delineated POL plumes at the MOC. Concentrations of GRO, DRO, RRO and methane were not detected in samples collected during the 2014 sampling event. Sample results indicated a 5-year average dissolved oxygen level of 9.2 mg/L and an average ORP value of 140 mV. These data indicate groundwater in the vicinity of this well was not impacted by petroleum and was in an aerobic state.

Well 14MW07 was installed in 2014. Groundwater sample results indicated GRO at 0.026 mg/L (J, B-flagged), DRO at 0.15 mg/L (B-flagged), RRO at 0.043 mg/L (J-flagged), and methane at 0.03 mg/L. The location of the petroleum source in the vicinity of this well is unknown. Groundwater collected from this well had a dissolved oxygen concentration of 4.52 mg/L and an ORP value of -385.4 mV. These data indicate that while oxygenated water contributed to well yield, groundwater in the vicinity of the well was slightly impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring. It should be noted that total lead was detected at a concentration of 0.13 mg/L in the sample. This sample had very high turbidity exceeding 1,000 NTU and was purged dry and allowed to recover prior to sampling. Dissolved lead was detected at 0.0015 mg/L (J-flagged). The ADEC Table C Groundwater Cleanup Level for lead is 0.015 mg/L.

Well MW88-10 is located hydraulically downgradient of well 14MW07. Groundwater collected from this well during 2014 contained POL concentrations of GRO at 0.021 mg/L (J, B flagged), DRO at 0.66 mg/L, and RRO at 0.041 mg/L (J flagged). The 5-year average concentration of methane was 0.0326 mg/L, ranged from 0.0018 to 0.061 mg/L, and was 0.014 mg/L during the 2014 event. This well has a 5-year average dissolved oxygen concentration of 1.0 mg/L and an average ORP value of 123.7 mV. These data indicate groundwater in the vicinity of this well was impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring.

Analytical results for samples collected from well MW88-1 did not exhibit detections of methane and GRO, but DRO was detected at 0.26 mg/L and RRO at 0.049 mg/L. It should be noted 2012 was the only year in the 5-year dataset when DRO (1.9 mg/L) exceeded the cleanup level (1.5 mg/L) at this well. The 2013 analytical results reported DRO at 0.22 mg/L. RRO results have decreased from 2011 (0.26 mg/L) to 2014 (0.049 mg/L) but are still higher than observed in 2010 (0.037 mg/L). Boring logs from the 2002 installation of the well indicate that an area of elevated photoionization detector (PID) reading of 204 parts

per million (ppm) existed at the top of the screen from 15 feet bgs to 17.5 feet bgs decreasing to 18.6 ppm at 20 feet bgs. Changes in groundwater elevation and corresponding pump intake depth during sampling may contribute to variability of DRO results as groundwater is drawn from depths with differing POL impact. The 5-year average dissolved oxygen concentration of 2.7 mg/L and ORP value of 166.6 mV suggests the groundwater in proximity to this well is typically in an aerobic state.

Groundwater samples were not collected from well MW88-3 by Bristol in previous years because the well was believed to be damaged during an investigation in 2010. Additional investigation of the well in 2014 revealed the well to be in good condition; it was determined that the previous "damage" was likely ice blockage. As a result, the well was re-developed and sampled. The groundwater sample collected from well MW88-3 in 2014 contained GRO at 0.018 mg/L (J, B-flagged), DRO at 0.46 mg/L, RRO at 0.03 mg/L (J-flagged), and methane at 0.0018 mg/L (J-flagged). The dissolved oxygen concentration (4.73 mg/L) and ORP (175.5 mV) suggest the groundwater in the vicinity of this well was impacted by petroleum and in an aerobic state, but the methane detection contradicts the aerobic groundwater condition and instead implies anaerobic groundwater conditions with methanogenesis occurring. Future groundwater data will be evaluated to determine whether groundwater in the vicinity of this well exists in an aerobic or anaerobic state. This well had a DRO concentration of 34 mg/L during sampling that followed well installation in 2002. This concentration is not representative of dissolved phase POL groundwater conditions and was likely a result of disturbance during well installation activities which may have mobilized residual pore space light non-aqueous phase liquid (LNAPL).

Well 14MW06 was installed in 2014 at Site 11 near the easterly side of the three 160,000 gallon AST pads where a large documented fuel spill occurred during DoD snow removal operations in 1967. In 2011, the POL-contaminated soil in this area, known as the J1A

plume, was excavated to approximately 12 feet bgs and 2 feet below the water table. The excavation was backfilled with borrow material in 2011, and the well was installed in the J1A excavation footprint in 2014. The groundwater sample collected from well 14MW06 during the 2014 event contained GRO at 0.22 mg/L, DRO at 5.2 mg/L (QL-flagged), RRO at 0.16 mg/L, and methane at 0.160 mg/L. The DRO result was the highest concentration of the 15 wells sampled in 2014. The sample had a dissolved oxygen concentration of 0.32 mg/L and ORP of -68.5 mV. Groundwater collected from this well also contained the highest concentrations of ferrous iron (1.75 mg/L) and dissolved manganese (1.6 mg/L) out of the 15 wells sampled in 2014. These data indicate groundwater in proximity to this well was impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring.

Well 14MW03 was installed during 2014 in a previously excavated and backfilled area (B2 petroleum plume and Site 13 PCB excavation) with approximately 5 feet of the well screen placed in backfill material which did not exceed site-specific cleanup criteria; the bottom 5 feet of the well screen was placed deeper than excavation activities in this area. Floor soil samples collected during confirmation sampling of the B1 excavation were below site-specific cleanup levels. The groundwater sample collected from 14MW03 during 2014 contained GRO at 0.19 mg/L, DRO at 2.4 mg/L, RRO at 0.21 mg/L, and methane at 0.047 mg/L, which indicates groundwater in the vicinity of this well was impacted by petroleum. The groundwater sample from this well contained a relatively high dissolved oxygen concentration of 8.03 mg/L, which indicates an aerobic groundwater environment, but the measured ORP (-404.9 mV) was contradictory to this. Groundwater collected from this well also contained ferrous iron (0.89 mg/L), and dissolved manganese (0.9 mg/L). If the dissolved oxygen concentration is discounted, then groundwater in the vicinity of this well appeared to be in an anaerobic state and methanogenesis was occurring.

Well 14MW04 was installed during 2014 in the footprint of POL excavation E, north of the MOC perimeter road near the Site 28 boundary. In 2013 excavation E reached a depth of 11 feet bgs, and extended approximately 2 feet below the water table. Confirmation soil samples collected from the base of the excavation, near the location of future well 14MW04, exhibited a concentration of DRO at 11,000 mg/Kg, which exceeded the site-specific soil cleanup criteria of 9,200 mg/Kg. The groundwater sample collected during 2014 indicated GRO at 0.051 mg/L (B-flagged), DRO at 2.5 mg/L, RRO at 0.54 mg/L and methane at 0.025 mg/L. The measured dissolved oxygen concentration was 0.33 mg/L and ORP was 27.3 mV. Groundwater in the vicinity of this well appeared to be impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring.

Well 14MW05, installed in 2014, is located north of the MOC perimeter road near the Site 28 boundary and was installed in the backfilled footprint of POL excavation I1. The excavation was advanced to approximately 9 feet bgs in 2013, and the screened interval of the well spans the backfill interface. The groundwater sample contained GRO at 0.36 mg/L, DRO at 4.9 mg/L, RRO at 0.033 mg/L, and methane at 0.033 mg/L. The dissolved oxygen concentration was 3.5 mg/L and the ORP value was -39.3 mV. Groundwater in proximity to this well was impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring.

Well 14MW02 was installed in 2014 in backfill material in the footprint of the former A2 petroleum plume excavation located on the northwest side of the MOC perimeter road. Soil confirmation floor samples collected from the excavation were below the site-specific cleanup criteria. The groundwater sample contained GRO at 0.28 mg/L, DRO at 1.3 mg/L, RRO at 0.094 mg/L (J-flagged), and methane at 0.230 mg/L. Dissolved oxygen was measured at a concentration of 1.17 mg/L and ORP was -103.8 mV. These data indicate groundwater in the vicinity of this well was impacted by petroleum, was in an anaerobic state, and methanogenesis was occurring.

Well 14MW01 was installed during 2014 just north of the MOC perimeter road on the northwest side of the MOC. This location was not impacted by soil removal activities. The groundwater elevation (59.03 feet above msl) was the lowest of the 15 wells sampled during 2014. The groundwater sample contained GRO at 0.046 mg/L (J, B-flagged), DRO at 0.15 mg/L (B-flagged), RRO at 0.043 mg/L (J-flagged), and methane at 0.083 mg/L. These data indicate groundwater in the vicinity of this well was impacted by petroleum. Dissolved oxygen was measured at 3.78 mg/L and ORP was -191.9 mV. If the dissolved oxygen concentration is discounted, the results suggest the groundwater conditions in the vicinity of this well were anaerobic and methanogenesis was occurring. Future groundwater data will be evaluated to determine whether groundwater in the vicinity of this well exists in an aerobic or anaerobic state.

Well 17MW-1 was installed in 2004 by Shannon and Wilson, and is the westernmost monitoring well in the current MOC monitoring well network. 2014 sample results indicated GRO and RRO were not-detected and DRO was reported at 0.021 mg/L (J flagged). Dissolved oxygen concentrations measured in groundwater collected from this well over 5 years averaged 8.39 mg/L and ORP averaged 183.84 mV. Methane has never been detected in samples collected from this well. These data indicate groundwater in the vicinity of this well may be slightly impacted by petroleum and was in an aerobic state.

Well MW10-1 was placed in native material during installation in 1994. The well is located crossgradient of MOC POL impacted soil and downgradient of Site 10 impacted soil. The water elevation measured in well MW10-1 during 2014 was roughly 1 foot higher than in nearby well 14MW06, which is located approximately 60 feet west of MW10-1. 2014 groundwater sample data for well MW10-1 indicated GRO was not detected, DRO was at 0.8 mg/L, RRO was at 0.37 mg/L, and methane was at 0.001 mg/L (J-flagged). The 5-year average dissolved oxygen concentration was 3.5 mg/L and ORP averaged 158.7mV. The 2014 dissolved oxygen level was 2.83 mg/L and ORP was 185.1

mg/L. The 5 year average methane concentration was 5.728 mg/L. These data indicate groundwater in the vicinity of this well was impacted by petroleum, and if the low dissolved oxygen measurement is discounted, the presence of methane suggests the groundwater appeared to be in an anaerobic state and methanogenesis was occurring.

6.2.5 MNA Discussion and Conclusions

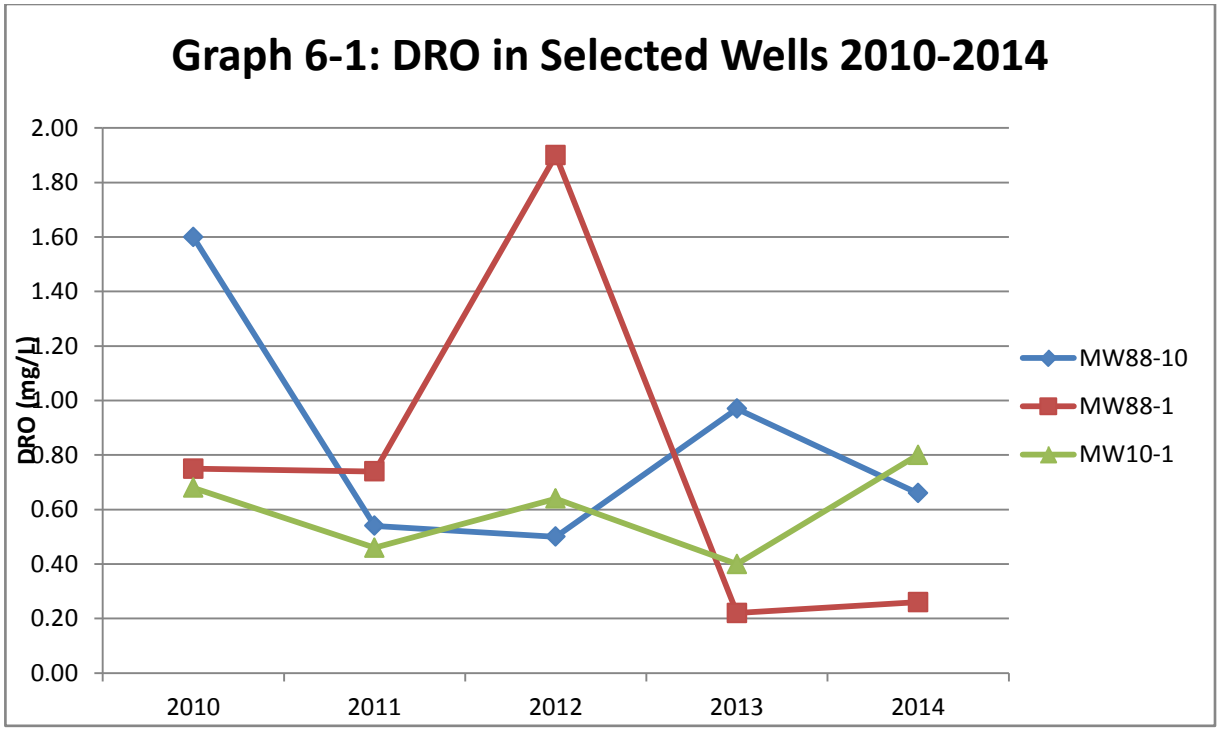
Section 2.5 of this report notes MOC groundwater likely originates as rain and snowmelt from the mountains which recharges the aquifer underlying the MOC. The water is likely aerated and becomes oxygen enriched as it cascades from the mountains as surface water before it infiltrates into the soil and becomes groundwater. Groundwater data from the MOC monitoring well network indicate that the groundwater naturally contains few nutrients such as nitrate and sulfate to act as terminal electron acceptors for beta-oxidation. Due to the natural lack of nutrients, dissolved oxygen is the primary terminal electron acceptor present in practical concentrations. The levels of dissolved oxygen measured in groundwater in the vicinity of wells located upgradient of the former fuel sources at the MOC indicates the dissolved oxygen concentration is sufficient to support aerobic biodegradation of dissolved petroleum by microbial processes.

Wells 26MW-1, 22MW2, 20MW-1 and 14MW07 are located upgradient of all known petroleum sources at the MOC. Wells 26MW-1, 22MW2, and 20MW-1 are considered the upgradient, or baseline, wells for groundwater MNA interpretation at the MOC. Samples collected from these four wells generally exhibit groundwater quality data typical of wells not impacted by petroleum: dissolved oxygen near saturation, relatively high ORP values, and no detectable methane. Wells MW88-1, MW88-3, MW88-10, 14MW01, 14MW02, 14MW03, 14MW04, 14MW05, and 14MW06 generally exhibit groundwater quality data typical of wells impacted by petroleum: decreased dissolved oxygen and ORP relative to the upgradient wells, the presence of methane, and, in some cases, the presence of ferrous iron and dissolved manganese, which are byproducts of microbial respiration. Wells

14MW01 through 14MW06 are located in the footprint of or immediately adjacent to known source areas at the MOC. Wells MW88-10, MW88-3 and MW88-1 are impacted by an unknown POL source. Wells 17MW1 and MW10-1 are considered crossgradient from the main portion of the MOC. Samples collected from well 17MW1 have exhibited groundwater quality data typical of groundwater not impacted by petroleum: dissolved oxygen near saturation, relatively high ORP values, and no methane, whereas samples collected from well MW10-1 have exhibited groundwater quality data typical of groundwater impacted by petroleum: decreased dissolved oxygen and ORP relative to the upgradient wells, the presence of methane, and, in several instances in data from previous monitoring events, the presence of ferrous iron and dissolved manganese, which are byproducts of microbial respiration.

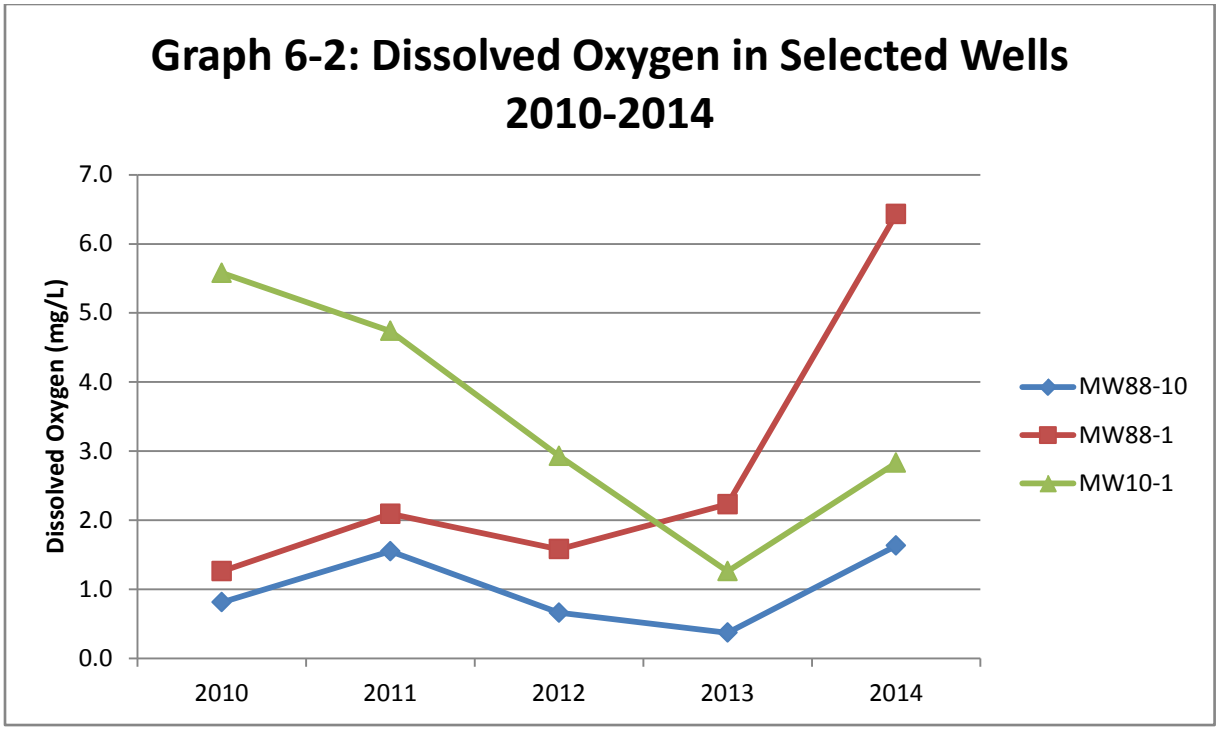
Of all wells in the MOC monitoring network, monitoring wells MW88-1, MW88-10 and MW10-1 are the only wells containing detections of COCs over the five consecutive year period of annual groundwater data collection. Other monitoring wells in the MOC network contain non-detects which confound trend analysis. Removal activities have not occurred at the MOC upgradient of monitoring wells MW88-1 and MW88-10, and UVOST delineated POL plumes do not exist crossgradient or upgradient of these wells. The source for POL impacts at well locations MW88-10 and MW88-1 is unknown. Graph 6-1 presents DRO concentrations over time for wells MW88-10, MW88-1 and MW-10-1. Concentrations of DRO at MW10-1 appear stable over time. MW88-1 and MW88-10 both contained lower concentrations of DRO in 2014 than at the beginning of the current monitoring program in 2010, but fluctuations within that time frame do not indicate an obvious decrease in DRO. POL degradation in an anaerobic environment, as indicated by the presence of methane in these three wells, is slow. Variability introduced by fluctuations in groundwater elevation may mask long term trends. Additional data will need to be collected over a greater time frame to evaluate a trend.

Graph 6-1 DRO Concentrations in Selected Wells 2010 - 2014



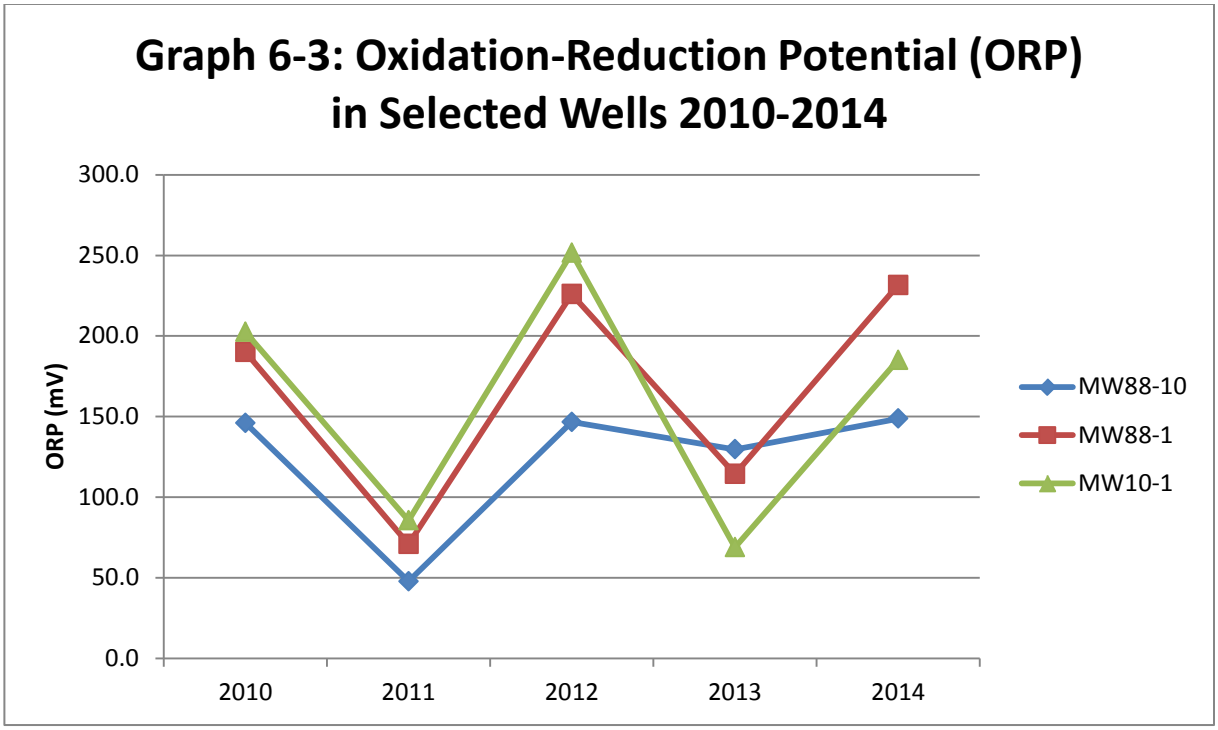
Graph 6-2 presents dissolved oxygen concentrations over time for the three wells. All wells exhibited a greater concentration of dissolved oxygen in 2014 than in 2013. The wells also contained detections of methane, suggesting groundwater mixing of anaerobic groundwater undergoing methanogenesis in the presence of POL and oxygenated groundwater derived from snowmelt and precipitation.

Graph 6-2 Dissolved Oxygen Concentrations in Selected Wells 2010 – 2014



Graph 6-3 presents oxidation-reduction potential for wells MW88-10, MW88-1 and MW10-1. The three wells showed similar fluctuations in ORP over the five year time period, but no general decreasing or increasing trend.

Graph 6-3 Oxidation-Reduction Potential (ORP) in Selected Wells 2010 - 2014



Groundwater data from the MOC monitoring well network indicates that as groundwater moves downgradient through the MOC, dissolved oxygen concentrations and ORP values generally decrease as dissolved petroleum concentrations increase. Reducing groundwater environments exist in wells with petroleum impacts, likely due to microbial activity consuming oxygen. Due to the susceptibility of wells to freeze-thaw damage at Site 28, there are no wells installed downgradient of the MOC. Permanent wells cannot be installed in Site 28 due to the fact the heaving soils that expand and contract as they freeze and thaw would destroy the wells. Surface water samples collected from Site 28 to date have not exhibited petroleum concentrations above the applicable surface water cleanup levels (TAH, TAqH, and sheen) identified in *ADEC Water Quality Standards* identified in *18 AAC 70* (ADEC, 2012).

MNA parameters measured in groundwater in the vicinity of source area well 14MW06 during 2014 indicate that natural degradation of dissolved petroleum may be occurring.

The well is screened primarily in gravel fill and is located immediately downgradient of fluvial outwash gravels of the northern Kangukhsam drainage. This kind of hydrologic environment is typically aerobic; however, the groundwater sample collected from 14MW06 contained lower dissolved oxygen concentration and negative ORP than neighboring well MW10-1, which is screened in silty clay. The observed groundwater condition is consistent with aerobic microbial degradation of POL depleting oxygen in the vicinity of the well, and creating an anaerobic condition. Comparatively high levels of ferrous iron, dissolved manganese, and methane indicate that anaerobic microbial respiration is occurring.

Source area wells 14MW04 and 14MW05 were installed during 2014 in close proximity to former wells MW88-4 and MW88-5 which were removed in 2012 because of POL-contaminated soil excavation activities. Groundwater samples collected from well MW88-4 had an average dissolved oxygen concentration of 0.43 mg/L and ORP concentration of -70.0 mV from 2010 to 2012. Groundwater samples from well MW88-5 had an average dissolved oxygen concentration of 0.63 mg/L and ORP of-65.0 mV. These previous data from MW88-4 and MW88-5 indicated the groundwater was impacted by petroleum and was in an anaerobic state. Based on 2014 samples, groundwater in the vicinity of wells 14MW04 and 14MW05 also appeared to be impacted by petroleum and in an anaerobic state. As a result, for future monitoring purposes, wells 14MW04 and 14MW05 will be considered suitable proxies for former wells MW88-4 and MW88-5.

Groundwater quality parameters measured in newly installed upgradient well 14MW07 differed considerably from well 22MW2. Both wells are located upgradient of known POL sources and have similar groundwater elevations. The difference in ORP and dissolved oxygen values measured in the two wells may be explained by the disturbance to the aquifer in the vicinity of well 14MW07 that resulted from well installation prior to measuring the parameters, or the field meter may have malfunctioned at the time the

parameters were measured. Additional groundwater quality data will be collected and evaluated during future events.

The groundwater samples collected from wells and 14MW07 and 14MW03 contained total lead at 0.13 mg/L and 0.062 mg/L, respectively. The ADEC Table C Groundwater Cleanup Level for lead is 0.015 mg/L. The samples collected from these two wells had high turbidity measured at 941 NTU in well 14MW03 and greater than 1,000 NTU in well 14MW07 and were not purged and sampled using low-flow procedures due to low recharge rates. The high turbidity contributed to high total lead concentrations in both wells; however, and dissolved lead concentrations measured in wells 14MW07 (0.0015 mg/L [J-flagged]) and 14MW03 (non-detect at 0.00025 mg/L) were well below the ADEC Table C Groundwater Cleanup Level of 0.015 mg/L.

Analytical results for samples collected in 2014 and from source area wells 14MW03, 14MW04, 14MW05 and 14MW06 contained DRO concentrations in groundwater that exceed the site-specific cleanup level of 1.5 mg/L and exhibited MNA parameters that indicated groundwater in the vicinity of the wells is in an anaerobic state and methanogenesis was occurring. Comparatively high levels of ferrous iron and dissolved manganese indicate microbial respiration is occurring. It is unclear whether or not microbial respiration is reducing dissolved petroleum concentrations over time. A determination of whether or not petroleum constituents are being degraded by naturally occurring microbes will be made after at least three years' worth of annual groundwater data have been collected. It is anticipated the natural attenuation rate will also be estimated when sufficient data have been collected.

6.3 Monitoring Well Abandonment and Repair

Bristol was tasked with abandoning compromised groundwater monitoring wells in order to remove the physical hazards associated with the wells and eliminate the potential contaminant migration pathway they may create. Three wells, 22MW3, 18MW1, and

MW88-3, were identified in the SOW for decommissioning, but after inspection prior to abandonment, MW88-3 was re-developed and added to the sampling network.

Wells 22MW3 and 18MW1 were decommissioned in accordance with procedures listed in the *ADEC Monitoring Well Guidance* document (ADEC, 2013b). The well casings were filled with bentonite pellets to the ground surface and the casings and monuments were completely removed from the ground. All well materials were containerized and hauled off-island for disposal. All direct pathways to the water table resulting from the presence of these wells have been closed and rendered less permeable than the surrounding soils.

Wells MW10-1, MW88-1, MW88-10, 17MW1, 20MW1, 22MW2, and 26MW1 were repaired, as specified in the SOW. MW88-3, scoped for decommissioning in the SOW, was also repaired, re-developed, and sampled. The well had been classified as damaged due to a blockage located above the screened interval discovered during a monitoring well survey in early July 2010. The blockage was no longer present when investigated in late August 2014, and the blockage observed in 2010 may have been due to early season ice above the water column as observed in other wells at the MOC.

6.4 POL-Contaminated Soil Removal, Surface Water Sampling, and Surveying at the MOC

6.4.1 Description and History

The primary COCs historically in soil at the MOC are DRO, naphthalene and PCBs. Bristol collected data in 2010 using UVOST technology as a means to plan and guide POL-excavation activities at the MOC. As a result of this investigation, Bristol identified ten plumes (plumes A through J), spanning sites 11, 13, 15, 17, and 27, where the LIF response from the UVOST indicated that DRO may exist at concentrations exceeding the site-specific cleanup level of 9,200 mg/Kg. During the 2011 field season, Bristol excavated 8,090.99 tons of POL-contaminated soil from plumes J1A, A1, and from visibly stained soil located in the footprint of the former ASTs at Site 11. During the 2012 field season, Bristol

excavated 8,594.91 tons of POL-contaminated soil from plumes A1, E2, E3, E4, G1, G2, and H. In 2013 Bristol excavated 10,601.24 tons of POL-contaminated soil from plumes E4, E3, E2, G, F, B1, B2, I1, and A2. In 2014 Bristol excavated 4,489.92 tons of POL contaminated soil from plumes E1, E2, C and I1. Figure 4 shows the POL plumes as well as the locations and extents of excavations from POL-contaminated soil removal efforts. The total quantity of POL-contaminated soil removed from the MOC to date is 31,777.06 tons.

6.4.2 Field Activities and Results

Bristol completed POL-contaminated soil removal at the MOC in 2014 by excavating the remaining contaminated soils from plumes C, E and I (Figure 8). Final confirmation soil samples were collected following excavation activities which indicated that DRO and RRO contamination was removed to concentrations in soil that do not exceed site-specific cleanup levels.

If DRO and RRO confirmation soil sample results from the field laboratory indicated contamination concentrations above the site-specific cleanup level of 9,200 mg/Kg, soil was excavated from the sample location and additional confirmation samples were collected. Refer to Section 5.12.1 for additional information regarding confirmation soil-sample collection. Confirmation sample frequency followed ADEC *Draft Field Sampling Guidance* (ADEC, 2010). Section 6.4.2 subsections describe field activities and sample results from tasks associated with POL-contaminated soil removal at the MOC.

Bristol loaded excavated soil into rock trucks and transported it to a concrete foundation located at Pad 98 (Figure 4) where the soil was stockpiled and loaded into bulk bags. Where soil and weather conditions permitted, Bristol attempted to mechanically separate large-diameter rocks from smaller-diameter soil particles. An onsite mechanical rock-screening plant separated rocks with diameters exceeding 2 inches in an effort to maximize DRO-contaminated soil removal and minimizing the weight of transported material in accordance with the ADEC *Technical Memorandum for the Petroleum*

Hydrocarbon Cleanup for Oversize Material (ADEC, 2005). Ideal soil conditions for screening included dry or moist friable soil. Screen plant use was limited due to the high moisture content of the silty-clay matrix surrounding the larger rocks. In some cases, it was not possible for the screen plant to efficiently and effectively separate the moist clumps of fine material from the larger material. Screen plant use was also limited to days with low to no precipitation and low winds in order to reduce sediment transport from the staging pad. Once a bag was filled, field personnel collected a waste characterization sample as described in Section 5.12.2.

6.4.2.1 POL-Contaminated Soil Removal from Plume E

The E plume (divided into sub-plumes E1 through E4) was one of the larger plumes identified by the UVOST in 2010, with an estimated area of 17,500 square feet (Figure 4). Excavation activities were initiated in 2012 within plume E4, E3, and portions of E2 and E1. E plume excavation activities were not completed in 2012 due to additional quantities of contaminated soil remaining after Bristol removed scoped tonnages and the relatively short duration of the field season; excavations continued in 2013 within the E4, E3 and E2 plumes. Excavation and removal activities in 2014 occurred within the E1 and E2 excavation units which were directly to the south of the E3 section of the E plume. Excavation E3 was backfilled with fill from the clean borrow source, therefore the northern edges of E1 and E2 were not confirmation sampled. Figure 8 shows the extents of the E plume excavation and all confirmation sample locations.

Approximately 7 feet of overburden was removed from the E1 excavation footprint and 4 feet of overburden was removed from the E2 excavation footprint and stockpiled on liners. Overburden with fuel odor was segregated from overburden without fuel odor. Liner left in place along the sidewall of the 2012 excavation extent provided a field reference for the northern extent of the historical E1 and E2 excavation. Bristol excavated soil to 11 feet bgs at E2. Bristol was able to reach 15 feet bgs at E1 due to the low

groundwater table, which rose over time and reached a depth of approximately 8 feet below the ground surface.

Confirmation sample results for the E plume are presented in Table H4 (Appendix H) and sample locations are presented on Figure 8. Confirmation sidewall samples 14NCMOCESS003 (duplicate 14NCMOCESS012) and 14NCMOCESS04 contained DRO concentrations of 16,000 mg/Kg (duplicate concentration of 22,000 mg/Kg) and 20,000 mg/Kg, respectively; above the cleanup level of 9,200 mg/Kg. Confirmation sidewall sample 14NCMOCESS07 contained RRO at 9,400 mg/Kg, exceeding the cleanup level of 9,200 mg/Kg. These sidewall locations were excavated and sampled. The subsequent confirmation samples did not contain DRO or RRO in concentrations that exceeded the site-specific cleanup level of 9,200 mg/Kg.

A total of 20 primary and three duplicate sidewall samples were collected from the E1 and E2 plume footprint. Seven primary soil samples and one duplicate soil sample were collected from the excavation floor. No floor samples exceeded the DRO or RRO site-specific cleanup criteria.

Backfill was placed in 1-foot lifts and track-walked with a bulldozer for compaction. A native seed mix and fertilizer were spread across the disturbed areas. All excavated soil from the E plume that was presumed to be below the site-specific cleanup level for DRO and RRO was stockpiled at a lined overburden area. Overburden with fuel odor was segregated from overburden with fuel odor as separate stockpiles. All overburden was sampled following ADEC guidelines for excavated soil and analyzed at the onsite field sampling lab. Stockpiled soils with DRO and RRO concentrations below 9,200 mg/Kg were used as backfill; any soil exceeding the site-specific cleanup level was containerized and shipped off-site. The USACE considers soil removal at the Plume E complete.

6.4.2.2 POL-Contaminated Soil Removal from Plume C

Excavation of the C Plume (Figure 8) was initiated on July 24, 2014. The C plume is located to the northwest of the E1 excavation. The UVOST-LIF responses from 2010 indicated that the target excavation zone was located between 10 and 14 feet bgs. Bristol considered soil shallower than 10 feet to be overburden unlikely to exceed site-specific cleanup criteria. Overburden from all POL excavations was stockpiled on a liner and confirmation sampled prior to use as backfill. Soil below the water table was excavated and allowed to drain suspended above the excavation in the excavator bucket prior to transportation to pad 98. Strong fuel odor was encountered at 7 feet bgs, and the interval between 6 and 10 feet bgs was segregated separately from other overburden material. Each of these overburden stockpiles were sampled in accordance with ADEC guidance as described in Section 5.7. Soil located within the contaminated zone was loaded into a rock truck and hauled to Pad 98 for containerization. Soil was excavated to a final depth of 14 feet bgs, where the excavation was submerged beneath 2 feet to 5 feet of water. Sidewall confirmation samples were collected from soil directly above the water table. Floor confirmation samples were collected from beneath 2 feet to 5 feet of standing water using an excavator bucket. Confirmation soil sample results from the C plume excavation are presented in Table H5 (Appendix H). Twelve confirmation soil samples and two duplicate samples were collected from the sidewalls of the excavation; three confirmation soil samples were collected from the floor. No floor confirmation samples contained DRO or RRO in concentrations above site-specific cleanup levels. One sidewall confirmation sample (14NCMOCCSS001) contained DRO at a concentration that exceeded the site-specific cleanup level. Following receipt of this sample result, the location of 14NCMOCCSS001 was excavated and confirmation samples 14NCMOCCSS016 and 14NCMOCCSS017 were collected. Final confirmation soil sample results indicated that DRO and RRO concentrations did not exceed site-specific cleanup levels. Analytical results are presented in Table H5 of Appendix H.

All soil from the C plume that was presumed to be below the site-specific cleanup level for DRO/RRO was stockpiled on a lined overburden area. All overburden soil was sampled following ADEC guidelines for stockpiles, and analyzed in the field laboratory for DRO and RRO analysis. Stockpiles with DRO and RRO results below the 9,200 mg/Kg cleanup level were used as backfill; soil with concentrations above the cleanup level was containerized and shipped off-site for disposal.

The excavation was completely backfilled in 1-foot lifts, each track-walked with a bulldozer for compaction. A native grass seed mix and fertilizer were spread across the disturbed areas at Plume C. The USACE considers soil removal at plume C complete.

6.4.2.3 POL-Contaminated Soil Removal from Plume I1

Excavation activities at Plume I1 (Figure 8) were initiated in 2013. Confirmation sidewall sample 13NCMOCSS089, collected in 2013 from the south side of the excavation, exceeded the site-specific cleanup level for DRO. The sample was relocated by the surveying team and excavated in 2014.

The UVOST LIF responses from 2010 indicated that the contaminated zone was located between 10 and 15 feet bgs. The 2013 extent of excavation was observed as a distinct border between gravel fill material and native soil containing peat lenses. Due to the I1 Plume being positioned on a slope face, approximately ten feet of shallow overburden was removed on the uphill side to reach the contaminated zone. The overburden was stockpiled on a liner with overburden from other POL excavations. Soil located deeper than the overburden interval, within the contaminated zone, was loaded into a rock truck and hauled to Pad 98 for containerization for off-site shipment. Soil was excavated to a final depth of 15 feet bgs, as measured from the south sidewall, and water infiltrated the excavation to 9 feet bgs.

Two confirmation sidewall soil samples and one duplicate were collected from soil located directly above the water table; one confirmation soil sample was collected from the excavation floor. Confirmation soil sample results from the I1 plume excavation are presented in Table H6 (Appendix H). None of the confirmation samples contained DRO or RRO in concentrations that exceeded site-specific cleanup levels. The USACE considers soil removal at Plume I complete.

The excavation was completely backfilled in 1-foot lifts and track-walked with a bulldozer for compaction. The site was graded, seeded, and fertilized.

6.4.2.4 MOC Surface Water Monitoring

Before, during, and after soil removal activities at the MOC, Bristol collected surface water samples from three locations in Site 28 (MOCSW01, MOCSW02, and MOCSW03) adjacent to the MOC (Figure 4), in order to assess the impact of removal activities on surface water. The surface water sample locations were selected where previous surface water sampling had occurred in 1994. The sample locations were at discrete drainages originating in the MOC where culverts had been removed in 2011 (MOCSW01 and MOCSW02) and where surface runoff is likely to pool at the MOC-Site 28 interface (MOCSW03). Samples were collected on July 23, August 3, and August 24, 2014; results are presented in Table H7 (Appendix H). A duplicate sample was collected at site MOCSW01 during each of the three sampling events. At the time of the July 23, 2014 sampling, soil removal activities at the MOC had not yet commenced for the season. On August 3, 2014, excavation of the E plume was underway within 10 feet of sample location MOCSW01. By the third sampling event on August 24, 2014, excavation activities had ceased. Surface water samples were collected as described in Section 5.12.3 at locations in close proximity to the MOC excavations. Surface water samples were analyzed by TestAmerica for DRO, RRO, GRO, BTEX, and PAHs. Analytical results were used to calculate TAH and TAqH results. TAH and TAqH surface water cleanup levels are

specified in the *2009 Decision Document* (USACE, 2009) as 0.01 mg/L and 0.015 mg/L, respectively. Numerical surface water cleanup levels for GRO, DRO, and RRO were not defined in the *2009 Decision Document* (USACE, 2009), which denotes the cleanup levels as "no sheen." Water quality parameters and turbidity were measured and recorded; no presence of sheen was observed.

TAH and TAqH concentrations did not exceed criteria in any of the samples. Concentrations of DRO and RRO were highest at location MOCSW01, an area with a distinct hydrocarbon odor emanating from the water during the three sample events. The pre-excavation DRO concentration at MOCSW01 was 2.5 mg/L, increased to 2.7 mg/L during excavation, and dropped to 1.4 mg/L post-excavation. The pre-excavation RRO concentration at location MOCSW01 was 2.3 mg/L, increased to a high of 3.4 mg/L (QN-flagged) during excavation, and dropped to a low of 0.98 mg/L after excavation activities were completed. The highest concentrations of DRO and RRO measured at the MOCSW02 location were 0.75 mg/L and 0.48 mg/ L, respectively, and were collected during removal operations (mid-excavation). The lowest measured concentrations of DRO and RRO from MOCSW02 were collected pre-excavation. The highest concentration of DRO measured at MOCSW03 was 1.7 mg/L and was collected post-removal.

6.4.2.5 Final Grade and Topographical Survey

After excavations were backfilled, the MOC was re-graded to prevent ponding of water and erosion at the site. Figure 9 presents the topographic survey completed by ECO-LAND.

6.5 Site 10 Investigation and Soil Removal

6.5.1 Site 10 Description and History

Site 10 (Figure 10) consists of a wide gravel area along the access road, directly east of the former ASTs at Site 11. An area of surface soil contamination was documented in 1994

along the western edge of the gravel pad at the Site 10 Buried Drum site. The maximum concentration of DRO was 26,500 mg/Kg (Montgomery Watson, 1995). Additional surface soil samples were collected in 1996, and the maximum DRO result was 17,000 mg/Kg. Soil borings were completed in 2004 and demonstrated that subsurface soils were not significantly impacted, and the maximum DRO result was 619 mg/Kg (USACE, 2009). Approximately 10 drums, one of which contained POL liquids, were exposed during excavation activities on the J1A plume during 2011 removal actions, and the drums and their respective contents were removed and disposed. The ADEC determined further characterization of the site was necessary.

During the 2012 field season, Bristol investigated the site to find and remove buried drums. Drums were encountered that contained new and used oil, oil/water mixtures, tar, diesel fuel, ethylene glycol (antifreeze), and alcohols. A total of 27 new drums were filled with liquids recovered from Site 10 and shipped off site for disposal. In addition to liquid wastes, 59.4 tons of soil contaminated with ethylene glycol and PCE were removed. Following the drum removal, 37 soil samples correlating to 29 locations within the excavation and four locations from stockpiled soils were collected and submitted to TestAmerica and analyzed for GRO, DRO/RRO, PCBs, VOCs, PAHs, ethylene glycol, RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), nickel, vanadium, and zinc. Sample results indicated concentrations of arsenic, ethylene glycol, PCE, and DRO remained in concentrations that exceeded site-specific and ADEC Method Two Soil Cleanup Levels.

In 2013, additional excavation was performed at Site 10 to remove the arsenic, ethylene glycol, PCE, and DRO contamination in soil. All contaminated soil was removed from these locations to concentrations that did not exceed applicable cleanup levels or evaluation criteria. Soil associated with ethylene glycol contamination was excavated to bedrock.

Research for the First Five-Year Review identified DRO-contaminated surface soil from five historical samples exceeded the cleanup level of 9,200 mg/Kg and may not have been removed at Site 10. Bristol was contracted to investigate these locations, collect soil samples to identify any remaining contamination, and excavate contaminated soil, if encountered.

6.5.2 Site 10 Field Activities and Results

On July 27, 2014 the 5 historic samples that contained concentrations of DRO greater than 9,200 mg/Kg (94NE10SS104, 94NE10SS127, 94NE10SS126, 94NE10SS125 and 96NE28SS107) were relocated by a professional land surveyor. Once the sample locations were re-established, Bristol collected soil samples by hand to between 6" to 12" bgs. Six samples were collected (14NC10SS001 through 14NC10SS006) and analyzed for DRO, RRO, PAHs, RCRA 8 metals, nickel, vanadium, zinc, VOCs, glycols, PCBs, and GRO. A seventh soil sample was collected from an area of visibly stained soil that contained oily rags. The additional sample (14NC10SS007) was analyzed for DRO and RRO in the field laboratory. Soil analytical results from Site 10 are presented in Table H8 (Appendix H).

Four samples from the first round of investigative sampling (14NC10SS002, 14NC10SS005, 14NC10SS006 and 14NC10SS007) contained concentrations of DRO and/or RRO above the site-specific cleanup levels. Excavation A was created to remove soil from sample locations 14NC10SS005, 14NC10SS006 and 14NC10SS007, which were grouped together on a slope at the western boundary of Site 10. Excavation B was created to remove RRO-contaminated soil at sample location 14NC10SS002, located several yards to the north of Excavation A. Bristol excavated 84.04 tons of contaminated soil from Excavations A and B into thirteen 5-cubic-yard bulk bags on August 3 and 4, 2014. A total of 14 confirmation soil samples and two duplicate samples were collected on August 4, 2014 from excavations A and B and sent to TestAmerica Tacoma and analyzed for GRO, DRO, RRO, PAHs,

RCRA 8 metals, nickel, vanadium, zinc, VOCs, glycols and PCBs. Samples collected for DRO and RRO were analyzed at the on-site field laboratory.

On August 3, 2014, the excavator was preparing an area to safely access the slope where Excavation A was located when a group of drums was encountered. Further investigation revealed five drums that contained a total of approximately 20 gallons of tar. Tar-contaminated soil was clearly visible in the vicinity of the drums. A containment area was constructed on the Site 10 pad where new 85-gallon open-top drums were loaded with the tar and contaminated soil. The drum contents were sampled and analyzed for RCRA 8 metals, toxicity characteristic leaching procedure (TCLP) VOCs, TCLP SVOCs, and total PCBs.

Of the confirmation samples collected from excavations A and B on August 4, 2014, four contained contaminant concentrations that exceeded cleanup levels or evaluation criteria. Soil sample 14NC10SS013 located in excavation A exceeded the evaluation criteria of 0.00016 mg/Kg for 1,2-dibromoethene with an estimated concentration of 0.0082 mg/Kg (J flagged); and exceeded the evaluation criteria of 0.024 mg/Kg for PCE with a result of 0.029 mg/Kg. Sample 14NC10SS017 in excavation A exceeded the site-specific cleanup level for DRO of 9,200 mg/Kg with a result of 12,000 mg/Kg. Samples 14NC10SS020 (excavation A), 14NC10SS022 (excavation B), and 14NC21SS023 (excavation B) exceeded the site-specific cleanup level of 9,200 mg/Kg for RRO, with RRO concentrations of 9,300 mg/Kg, 12,000 mg/Kg and 13,000 mg/Kg, respectively.

Samples 14NC10SS013 and 14NC10SS017 were both collected in Excavation A from soil that was visibly stained. Following evaluation of the sample results, the decision was made, in consultation with the onsite QAR, to excavate all visibly stained soil and collect additional soil samples. Floor sample 14NC10SS020 was also collected from Excavation A and additional soil was excavated to the west.

Floor samples 14NC10SS022 and 14NC21SS023 were collected from Excavation B and these locations were excavated an additional 1 to 2 feet bgs. A total of six bulk bags were filled with 110.49 tons of soil from Excavations A and B during this round of excavation.

Nine primary samples and one duplicate sample were collected on August 8, 2014 following the second round of excavation. Samples 14NC10SS024 through 14NC10SS027 were collected from Excavation B and samples 14NC10SS028 through 14NC10SS033 were collected from excavation A. All confirmation soil samples were analyzed for RCRA 8 metals, PCBs, PAHs, nickel, vanadium, zinc, VOCs, glycols, GRO, DRO, and RRO. DRO and RRO analysis was performed at the on-site field laboratory. GRO, VOCs, metals and glycols analysis was performed by TestAmerica in Tacoma, Washington. PAHs and PCBs analyses were performed by SGS in Anchorage, Alaska.

The confirmation soil sample results from Excavation A did not exceed cleanup levels or evaluation criteria. Following receipt of the sample results, Excavation A was backfilled with borrow material, track walked, and seeded.

Sample 14NC10SS024, located in Excavation B, contained concentrations of 1,1,2,2-tetrachlorethane, 1,2-dichloropropane, and trichlorethene (TCE) exceeding Method Two Soil Cleanup Levels listed in *18 AAC 75.345 Tables B1 and B2* (migration to groundwater) (ADEC, 2014). The sample contained 1,1,2,2-tetrachlorethane at 0.037 mg/Kg (evaluation criteria of 0.017 mg/Kg); TCE at 11 mg/Kg (evaluation criteria of 0.020 mg/Kg); and 1,2-dichloropropane at an estimated (J-flagged) concentration of 0.036 mg/Kg (evaluation criteria of 0.018 mg/Kg). An additional 26.13 tons of soil from sample location 14NC10SS024 were excavated and confirmation soil samples 14NC10SS034 through 14NC10SS040 were collected on August 18, 2014. The samples were only analyzed for VOCs since concentrations of all other potential contaminants (fuels, metals and SVOCs) had not exceeded cleanup levels or evaluation criteria.

TCE concentrations in samples 14NC10SS035/036 and 14NC10SS040 were 0.0311 mg/Kg (J-flagged) and 0.228 mg/Kg, respectively; exceeding the TCE evaluation criteria of 0.020 mg/Kg. Bristol excavated 31.98 tons of soil from these two sample locations and collected confirmation soil samples 14NC10SS041 through 14NC10SS044 for analysis of VOCs at TestAmerica.

Samples 14NC10SS041 and 14NC10SS042 contained TCE concentrations of 0.047 mg/Kg and 0.032 mg/Kg, respectively and were targeted for additional excavation. The final round of excavation commenced on September 30, 2014 when Bristol excavated 12.96 tons of soil from sample locations 14NC10SS041 and 14NC10SS042. Prior to closing the excavation, three confirmation soil samples were collected and submitted to TestAmerica for analysis of VOCs. The excavation occurred just prior to the final demobilization from the site, and the entire excavation was lined with a geotextile liner, backfilled, and seeded. The final topography is presented on Figure 11.

The final confirmation sample results indicate that 1,1-dichloroethene remains at one location at a concentration that exceeds the evaluation criteria. Sample 14NC10SS045 and duplicate sample 14NC10SS046 contain 1,1-dichloroethene at concentrations of 0.058 mg/Kg (J-, B-flagged) and 0.110 mg/Kg, respectively, exceeding the evaluation criteria of 0.030 mg/Kg. Soil from this one sample location (14NC10SS045 and duplicate 14NC10SS046) was not excavated and remains in-situ (identified as a red dot in Excavation B on Figure 10).

Confirmation sampling protocols commensurate with the *ADEC Draft Field Sampling Guidance* document (ADEC, 2010) was followed in all rounds of excavation and sampling of excavations A and B. Samples were collected at a rate of one per 20 linear feet along sidewalls. Two floor samples were collected for the first 250 square feet, plus one for each additional 250 square feet. Some areas along the extent of the excavation area were sloped to initial grade and did not have a clearly defined sidewall. Samples collected from these

slopes were treated as floor samples where the linear sidewall sampling frequency had been met.

A total of 47 soil samples, comprised of 42 primary and 5 duplicate samples, were collected from the Site 10 excavations. A total of 40 bulk bags were filled with 265.6 tons of contaminated soil and shipped off-site for disposal on 9/30/2014.

6.6 Site 32 Investigation and Soil Excavation

6.6.1 Site 32 Description and History

The lower tram terminal (Site 32) is located south of the White Alice Site at the northern base of Mt. Kangukhsam. The site consisted of a tram terminal building, substation transformer bank, two ASTs, a water well and anchor pit for the aerial tram line (Figure 12). The buildings, ASTs, and tram structures were demolished and removed during the 2003 and 2005 field seasons.

Soil samples were collected during the 2001 investigation. DRO concentrations ranged from 230 to 13,000 mg/Kg. The highest DRO results were associated with an area of heavy soil staining beneath the valve of the exterior AST. The anchor pit also contained DRO at a concentration of 11,000 mg/Kg. RRO concentrations ranged from non-detect to 3,600 mg/Kg.

Confirmation soil samples were collected in 2003 following building demolition activities and removal of the AST located outside the tram terminal building. DRO concentrations ranged from 1,150 to 10,400 mg/Kg surrounding the former AST. DRO was also detected from 374 to 2,350 mg/Kg in soils surrounding concrete transformer pad CTP-2. See Figure 13 for historical sampling locations. No other contaminants (i.e., BTEX, lead, PCBs, PAHs) were detected above applicable cleanup levels.

In 2010, soil that contained DRO in excess of the 9,200 mg/Kg site cleanup level was removed from Site 32; however, the excavation did not adequately remove the full extent of the contamination.

In 2014, Bristol relocated three historical soil sample locations which contained DRO above 9,200 mg/Kg (01NE32SS102, 01NE32SS122, and 03NEC32SS07) using the onsite professional land surveying team. The DRO-contaminated surface soil was described in the *2009 Decision Document* (USACE, 2009) and did not appear to have been addressed during previous remedial actions. The QAR verified that the sample locations appeared to be in the correct location. Soil samples were collected from the same locations in 2014 (horizontally and vertically) and analyzed for DRO and RRO in the onsite field laboratory.

6.6.2 Site 32 Field Activities and Sample Results

Based on 2014 survey information, soil removal actions conducted in 2010 at historic sample locations in accordance with the *2009 Decision Document* (USACE, 2009) may not have been in the correct location. On July 27, 2014, three historic samples (01NE32SS102, 01NE32SS122, and 03NEC32SS07) were relocated by a professional land surveyor. Once the sample locations were re-established, Bristol collected soil samples by hand from these three locations. The samples were collected at their historic depth; samples 03NEC32SS07 and 01NE32SS122 were collected at 0.5 feet bgs and sample 01NE32SS102 was collected at 2.0 feet bgs. The soil samples were analyzed for DRO and RRO at the field laboratory. Three primary samples and one duplicate were collected from the three historic sample locations. The sample locations at Site 32 are shown on Figure 12 and analytical results are presented in Table H9 (Appendix H).

Confirmation soil sample 14NC32SS002 and duplicate sample 14NC32SS003 contained DRO concentrations above the site-specific cleanup level of 9,200 mg/Kg, with both samples having concentrations of 14,000 mg/Kg. Soil from the location of samples

14NC32SS002 and 14NC32SS003 was excavated on August 6, 2014. Bristol excavated 32.19 tons of contaminated soil into bulk bags and collected four primary confirmation soil samples and one duplicate sample.

Confirmation soil sample 14NC32SS002 and duplicate sample 14NC32SS003[3] (collected on August 6, 2014) contained DRO concentrations of 18,000 mg/Kg. Bristol excavated an additional 20.94 tons of contaminated soil from this location on August 9, 2014. The sidewall sample location was excavated to the same depth as the rest of the floor and to the south an additional 3 to 4 feet. One primary confirmation soil sample (14NC32SS010) and one duplicate sample (14NC32SS011) were collected. Both samples contained DRO and RRO concentrations that did not exceed site-specific cleanup levels. The final excavation measured approximately 10.5 feet long by 11 feet wide and extended to approximately 3 to 4 feet bgs. Following receipt of sample results, the excavation was backfilled, graded, and seeded. All DRO-contaminated soils exceeding the site-specific cleanup level were excavated and removed. The USACE considers soil removal at Site 32 complete.

6.7 Site 6 Investigation and Soil Sampling

6.7.1 Site 6 Description and History

Soil samples were collected on two occasions in 2009, before work started (pre-construction) and after work was completed (post-construction), from three locations at the Site 6 hazardous waste accumulation point. The same three locations were sampled pre- and post-construction. One of the pre-construction soil samples (09NC007SB03) collected in 2009 at Site 6 contained PCBs at an estimated concentration of 2.2 mg/Kg (M, L, J-flagged), which was above the cleanup level of 1 mg/Kg. The sample was collected as

[3] A naming error occurred in the field. Sample IDs from August 6, 2014 were identical to those from July 27, 2014. Samples can be distinguished by collection date/time and lab work order number.

part of a sampling program meant to evaluate the effects of field activities on soils at the Site 6 hazardous waste accumulation point.

Soil sample 09NC007SB03 was collected in 2009 and was a pre-construction sample collected before work started. The estimated result failed one or more QC criteria and was a duplicate of sample 09NC007SB02. Sample 09NC007SB02 contained a PCB concentration (Aroclor 1254) of 0.670 mg/Kg (M, L, J-flagged). The post-construction samples, 09NC007SB05 and 09NC007SB06, collected from the same location, did not contain PCBs in concentrations exceeding the cleanup level.

The accumulation point was located at Site 6 and served as the location where drums from the Site 7 landfill were emptied, washed, containerized, and staged. For additional information, refer to the *Site 7 Landfill Cap Construction Completion Report* (Bristol, 2010). Post-construction confirmation soil samples from the same location did not identify PCBs above the cleanup level. Subsequent POL-contaminated soil excavation activities at Site 6 in 2010 were conducted, but soil confirmation samples were not analyzed for PCBs to verify whether or not PCBs were present at the site. For a comprehensive report of the activities at Site 6 refer to *Northeast Cape HTRW Remedial Actions Final Report* (Bristol 2011). Bristol was scoped to address this data gap in 2014 by investigating this location and collecting soil samples to determine if PCB-contaminated soil exists.

6.7.2 Site 6 Field Activities and Sample Results

The 2009 pre-construction soil sample that contained the estimated PCB concentration of 2.2 mg/Kg was relocated using a professional land surveyor. Bristol also relocated the point using a Trimble Global Positioning System (GPS) unit. Since the GPS location was captured by Bristol in 2009, the GPS data was still available and was used to navigate to the location. The point located by Bristol and the point located by the surveyor did not fall at the same location, so the decision was made to sample both locations. The point located using the GPS unit was located within a backfilled gravel area where soil was

removed in 2010. The point located by the survey team was located to the northeast in an undisturbed area containing vegetation. Test Pit 1 (Figure 13) corresponds to the location marked by the surveyor and Test Pit 2 was advanced at the location determined by Bristol's GPS unit.

A Bristol geologist, aided by an equipment operator, advanced two test pits (one at each location) and collected two soil samples from each location. The test pits were logged and the subsurface was described by the geologist. The test pit logs are provided in Appendix E. Test Pit 1 was advanced approximately 18 inches to an elevation of 47.6 feet above msl. Test Pit 2 was advanced approximately 3 feet bgs to an elevation of 46.2 feet above msl. One sample was collected to coincide with the historical elevation of the previous sample (approximately 49 feet above msl) and a second sample was collected from the bottom of each test pit in native soil, distinguishable as clayey silt with redoximorphic mottling. The samples coinciding with the historical sample's elevation were collected from approximately 6 inches bgs at both test pit locations. The elevation of the ground surface at both test pit locations was measured via survey to be 49.3 feet above msl. The samples were analyzed for PCBs by TestAmerica in Tacoma, Washington. PCBs were not detected in any of the soil samples. Sample results are presented on Table H10 (Appendix H) and Figure 13 shows the locations of the soil samples and the test pits at Site 6.

6.8 Site 27 Investigation and Soil Sampling

6.8.1 Site 27 Description and History

In 2001, a single soil confirmation sample (UST-CS-27_EN-04-01) was collected from a UST/pipeline soil excavation at Site 27. The sample contained naphthalene at 191 mg/Kg, which was above the site-specific cleanup level of 120 mg/Kg. The naphthalene-contaminated soil sample is described in the *2009 Decision Document* (USACE, 2009). A data gap was identified as to whether or not naphthalene in the area had been removed

due to the lack of naphthalene analysis in confirmation samples. Bristol was scoped to investigate the historical sample location and determine if naphthalene still remained in the soil.

6.8.2 Site 27 Field Activities and Sample Results

The sample that contained naphthalene at 191 mg/Kg was relocated by a survey crew (Figure 14). The historical sample location appeared to be in an area of the E plume where soil had previously been excavated and removed. A test pit was advanced to the depth of the original sample, approximately 16 feet bgs, and the Bristol geologist logged the subsurface. The test pit log is provided in Appendix E. Fill material was present to approximately 12 feet bgs and native soil was present from 12 to 16 feet bgs. Soil sample 14NC27SS01 and duplicate 14NC27SS02 was collected from 12.5 to 13.5 feet bgs and sent to TestAmerica for naphthalene analysis. The field lab analyzed sample 14NC27SS01 for DRO and RRO. The sample results, presented on Table H11 (Appendix H), did not contain naphthalene, DRO, or RRO in concentrations that exceeded the cleanup levels. The soil associated with the historical sample location UST-CS-27_EN-04-01 was likely removed during previous excavation activities at the MOC.

6.9 Site 21 Arsenic Excavations

6.9.1 Site 21 Description and History

Site 21, located west of the MOC Perimeter Road (Figures 4, 15, and 16), contained the wastewater treatment system for the Housing and Operations Complex. The infrastructure consisted of a concrete settling tank and piping, enclosed in a wooden utilidor that discharged to the tundra approximately 450 feet to the west (USACE, 2009). The infrastructure was removed in 2003 and soil confirmation samples were collected following removal of the piping and the utilidor from locations along the piping run and at the inlet and outfall lines.

PCBs, arsenic, and chromium have previously been identified as COCs at this site; however, chromium in soils exists in the trivalent state and the concentrations do not pose a potential risk to residents (USACE, 2009). Bristol removed 10.4 tons of PCB contaminated soil in 2010, so the primary remaining COC at the site consisted of arsenic-contaminated soil located near the outfall of the former discharge pipe. The source of the arsenic contamination is unknown. The *2009 Decision Document* (USACE, 2009) stated that arsenic detections are likely attributable to naturally occurring minerals in tundra soils.

The site-specific cleanup level in soil has been established as 11 mg/Kg at Site 21. In 2011, Bristol performed background sampling at Site 21 and analyzed nine samples for arsenic concentrations (the associated technical memorandum is included in Appendix J). Arsenic concentrations in the background samples ranged from 2.9 mg/Kg to 22 mg/Kg. The results determined the mean background concentration to be 11.49 mg/Kg.

Arsenic-contaminated soil removal actions were performed by Bristol in 2010, 2011, 2012, and 2013 resulting in the combined removal of approximately 440 tons of soil. In 2013, Bristol performed two rounds of soil sampling from borings in an attempt to delineate the horizontal and vertical extent of arsenic contamination at Site 21. The results from the sampling were used to produce a map of the areas at Site 21 that required soil removal. The map was used to guide two rounds of soil removal. At the completion of removal in 2013, arsenic remained at seven locations in concentrations that exceeded the site-specific cleanup level of 11 mg/Kg: samples 13NC21SS023 (25 mg/Kg), 13NC21SS026 (79 mg/Kg), 13NC21SS043 (17 mg/Kg), 13NC21SS045 (19 mg/Kg), 13NC21SS046 (21 mg/Kg), and 13NC21SS047 (29 mg/Kg).

Bristol was tasked to collect 120 samples from 40 soil borings in 2014 to further delineate arsenic concentrations at and near Site 21 and conduct removal actions. The boring samples were collected to evaluate the arsenic concentrations adjacent to Site 21. A

topographic survey was performed to establish the relationship between the locations of the borings and Site 21 (i.e., whether or not the boring is up or downgradient from Site 21). The boring locations are shown on Figure 15.

6.9.2 Site 21 Removal Actions and Sample Results

Bristol sampled 40 soil borings at Site 21 beginning June 11, 2014. The USACE chose the boring locations and plotted them on a map prior to field mobilization. The project QAR accompanied the Bristol crew to the site and spent approximately 4 hours on the ground to mark the 40 boring locations. The borings were advanced to approximately three to four feet bgs. Three soil samples were collected per boring, at depths of approximately 1.0 feet bgs, 2.0 feet bgs, and 3.0 feet bgs in order to establish the horizontal and vertical spatial extent and variability of arsenic in soils near Site 21. Bristol had intended to collect the samples with a hand auger, but the first attempts using a hand auger were halted by frozen soil at the surface. The use of an excavator to create the “borings” (test pits) was employed for the majority of the samples.

A total of 120 soil samples were collected from the 40 borings. Sample results indicated that six soil samples from five of the borings contained arsenic in concentrations exceeding the site-specific cleanup level of 11 mg/Kg. Soil sample results from the soil borings installed at Site 21 are presented in Table H12 (Appendix H). Bristol produced and submitted a map to the USACE that showed the soil boring locations and where sample results exceeded the 11 mg/Kg cleanup level. Samples 14NC21SS015-2, 14NC21SS018-3, 14NC21SS012-3, 14NC21SS023-1, 14NC21SS023-2, and 14NC21SS024-3 contained arsenic in concentrations of 12 mg/Kg, 17 mg/Kg, 12 mg/Kg, 23 mg/Kg, 12 mg/Kg, and 17 mg/Kg, respectively. The map (included in Appendix J) showed the location of each soil boring and the resulting arsenic concentrations that exceeded cleanup levels. Nine additional soil boring locations were planned following discussions with the USACE and the ADEC.

The final nine soil borings were advanced to depths of between 3 and 4 feet. A total of 27 primary soil samples and three duplicate samples were collected on August 5, 2014 from the final nine borings. None of the samples from this second round of borings contained arsenic in concentrations exceeding the cleanup level of 11 mg/Kg.

A brief data analysis of historic arsenic concentrations across the NE Cape site was conducted by the USACE based on figures created by Bristol (Appendix J). The USACE Project Delivery Team used this information along with the initial arsenic boring sample results to determine an excavation plan. Based on the local spatial distribution of arsenic and the historical analysis of site wide arsenic in soil (see figures in Appendix J), the USACE instructed Bristol to target soil with arsenic greater than 17 mg/Kg for removal.

Site 21 excavation extents and sample locations are shown on Figure 16. On August 7, 2014, Bristol removed 5.19 tons of arsenic-contaminated soil from 2013 confirmation soil sample locations 13NC21SS023 and 13NC21SS026, which contained arsenic concentrations of 25 mg/Kg and 79 mg/Kg, respectively. Two areas approximately 25 square feet each were excavated to depths of approximately four feet. Two primary samples and one duplicate sample (14NC21SS001, 14NC21SS002, and 14NC21SS003) were collected from the floor of the two excavations. Confirmation soil sample results for Site 21 are presented on Table H13 (Appendix H). None of the confirmation soil samples associated with these excavations contained arsenic in concentrations that exceeded the cleanup level of 11 mg/Kg. No additional excavation occurred at these locations.

On August 10, 2014, 64.86 tons of arsenic-contaminated soil were removed from 2013 confirmation sample locations 13NC21SS045 (19 mg/Kg), 13NC21SS046 (21 mg/Kg), and 13NC21SS047 (29 mg/Kg); and from historical sample locations 03NECAFSB06 (18.4 mg/Kg) and 03NECAFSB07 (28.8 mg/Kg). A total of 19 primary and two duplicate samples (14NC21SS004 through 14NC21SS022) were collected from the floor and sidewalls. None of the results contained arsenic in concentrations that exceeded 17

mg/Kg. Sample 14NC21SS004 contained arsenic at a concentration of 13 mg/Kg, which exceeds the site-specific cleanup level of 11 mg/Kg, but was below the targeted arsenic removal concentration of 17 mg/Kg. No additional excavation occurred in these areas (soil from sample location 14NC21SS004 was not excavated).

On August 19, 2014, 37.3 tons of arsenic-contaminated soil were removed from historical sample locations 03NECAFSB55 (35.2 mg/Kg) and 03NECAFSB13 (19.7 mg/Kg). Each of the sample locations were excavated in a ten foot square to a depth of approximately 3 feet. Ten primary samples and one duplicate sample were collected from the floor and sidewalls (14NC21SS025 through 14NC21SS035). None of the sample results contained arsenic in concentrations that exceeded the site-specific cleanup level of 11 mg/Kg.

Contaminated soil was containerized in bulk bags directly from the excavations at Site 21. Any water from the excavated soil was allowed to drain from the excavator bucket into the excavation prior to placing the soil in the bulk bag. A total of 17 bulk bags were loaded with contaminated soil, for a total excavated weight of 107.35 tons. Waste characterization samples were collected from the bulk bags and sent to TestAmerica for arsenic analysis using the TCLP extraction method.

Site 21 excavations and borings were backfilled with clean material from the borrow source, which was compacted and graded to match the existing ground surface.

6.9.3 Site 21 Surface Water Sampling

Bristol collected nine surface water samples from three locations at Site 21 to monitor the effects of soil removal on surface waters. The samples were collected at three distinct times: prior to, during, and following soil excavation activities. The surface water samples were submitted to TestAmerica for arsenic analysis. Arsenic was only detected in unfiltered sample 14NC21SW005 at an estimated concentration of 0.0039 mg/L (J-flagged). The sample was collected during soil excavation activities and did not exceed

the surface water evaluation criteria of 0.01 mg/L; arsenic was not detected in any of the other surface water samples. Surface water sample results are presented on Table H14 (Appendix H).

6.10 Removal of Miscellaneous Debris, Drums, and Poles

6.10.1 Debris Removal Description and History

Miscellaneous debris, consisting of metal roofing, wire, rusted drums, and Marston matting, had been identified in multiple areas associated with the installation. Bristol has removed miscellaneous debris from across the site since 2009. Bristol was scoped to remove 2 tons of miscellaneous debris from areas across the NE Cape site. Bristol was also scoped to remove 2 tons of debris specifically from surrounding and around the edges of the Site 7 landfill cap; minor wire and metal debris were observed along the northern border of the cap and removed by hand; however, the vast majority of observed debris was removed from ponds and areas located outside of the landfill cap footprint.

6.10.2 Debris Removal Field Activities

Bristol removed 10.97 tons of debris from the NE Cape site and from the vicinity of, and on the Site 7 landfill cap. Most of the debris, including wire, antenna components, and rusted drums, was recovered from the surrounding tundra. The debris was consolidated into Conex shipping containers and shipped to Columbia Ridge Landfill for disposal.

6.11 Surface Water Sampling at Site 8

6.11.1 Site 8 Description and History

Site 8 (Figure 17) is a wetland with dense, grassy surface vegetation (i.e., thick tundra mat) that slopes southward and narrows toward the Suqitughneq River. A spring is located at the lower end of the site near the Suqitughneq River.

Historically, a fuel pipeline extended from the Site 3 fuel pump-house (near Cargo Beach) to the three large ASTs located at Site 11 in the MOC. The fuel pipeline has since been

removed, but anecdotal evidence suggested a break in the pipeline occurred near the location of Cargo Beach Road and the Airport Access Road (Shannon & Wilson, 2005). Figure 17 shows the approximate location of the pipeline break.

Two soil samples were collected at Site 8 in 2004. The first sample (04NE08SD103) was located approximately 50 feet downgradient from the suspected location of the historical pipeline break; the second sample (04NE08SD102) was located approximately 100 feet downgradient from the suspected break. Results from 2004 indicated that DRO was present at concentrations of 6,700 mg/Kg and 19,500 mg/Kg in samples 04NE08SD103 and 04NE08SD102, respectively. In 2004, surface water samples were also collected near the Site 8 drainage's confluence with the Suqitughneq River, but contaminants (BTEX and PAH compounds) were not detected (Shannon & Wilson, 2005).

The selected remedy for this site, as stated in the *2009 Decision Document* (USACE, 2009), is natural attenuation. The relatively high organic carbon content of the soil promotes stabilization of the fuel components and minimizes the potential for contaminant migration. The heavily vegetated area helps promote the natural breakdown of DRO in the presence of nutrients (nitrogen, phosphorus, and potassium) (USACE, 2009).

In 2010, a multiyear study commenced to monitor natural attenuation, during which three DUs were created. Samples were collected from soil and surface water within each DU with the intention of studying the changes in COC concentrations in soil over time and to analyze the MNA parameters in surface water to determine whether natural attenuation could be occurring under the observed conditions. The upper decision unit was located upgradient of the source; the middle DU encompassed the source area (the area of the pipeline break); and the lower DU was the downgradient unit nearest the Suqitughneq River. DUs consisted of equally sized rectangular areas 40 feet wide by 100 feet long, which were divided into 40 interior cells (10 feet square). Each year, eight cells

within each DU were randomly chosen to serve as the soil and surface water sample locations for the MNA study. The soil from the eight cells within each DU was homogenized and sent to the analytical laboratory for analysis of DRO, RRO, total organic carbon, and PAHs to determine whether COCs existed above cleanup levels and whether the COCs were being reduced under natural processes.

In addition to soil analysis, surface water quality parameters and MNA parameter data were recorded for each cell (eight from each DU), and one sample from each selected cell was shipped to the analytical laboratory for methane analysis. MNA parameters include methane, manganese, ferrous iron, sulfate, alkalinity, nitrate, turbidity, temperature, pH, specific conductance, DO, and ORP.

In 2012, the third season of the multi-year study, it was concluded that MNA parameter surface water monitoring was ineffective. The ineffectiveness was due to large amounts of rain water and snow melt diluting concentrations of MNA parameters measured at the site. The MNA monitoring was ineffective due to results being non-detect at the manufacturer stated reporting limits, which are comparable to laboratory based analysis for the same parameters (nitrate, sulfate, dissolved manganese).

Since 2010, concentrations for all compounds, except 2-methylnaphthalene from soil samples collected in the lower DU, have not exceeded cleanup levels. Surface water analyses have never exceeded cleanup levels at Site 8. Bristol recommended that there be no further action taken at Site 8. In 2013, there was no activity at Site 8.

6.11.2 Site 8 Field Activities and Surface Water Sampling Results

In 2014, the two historical surface water locations 12NC08SWA01 and 12NC08SWA02/03 were relocated and additional surface water samples were collected and analyzed for BTEX, GRO, DRO, RRO, and PAHs. Surface water samples were collected using a clean, non-preserved, 1-liter amber jar, which was slowly dipped into the water source and then

used to fill the appropriate sample containers for the specified analyses while water quality parameters were measured using a YSI water quality meter submerged directly into the water. Turbidity measurements were recorded using a HACH 2100P Field Turbidimeter.

Surface water samples were collected on August 12, 2014 and shipped to TestAmerica in Tacoma, Washington to be analyzed for GRO, DRO, RRO, BTEX, and PAHs. Surface water sampling results from the two discrete surface water sample locations are presented in Table H15 (Appendix H). Sample 14NC08SWA02 and field duplicate sample 14NC08SWA03, located approximately 200 feet from the suspected pipeline break location, exceeded the TAqH cleanup level stated in the *2009 Decision Document* (USACE, 2009) of 0.015 mg/L. The TAqH value for surface water sample 14NC08SWA02 totaled 0.0193 mg/L (QN-flagged) and sample 14NC08SWA03 had a TAqH value of 0.0329 mg/L (QN-flagged). No sheen was observed. No other analytes exceeded evaluation criteria.

The field duplicates (14NC08SWA02 and 14NC08SWA03) had poor agreement regarding TAH and TAqH because of the effect that laboratory sample dilutions have on non-detect results. Several compounds used in the TAqH calculations were not detected, so the limit of detection (LOD) was used in the calculation. Sample 14NC08SWA02 was analyzed at a 5x dilution and sample 14NC08SWA03 was analyzed at a 20x dilution. The non-detect PAH compounds from sample 14NC08SWA03 contained a higher LOD, which resulted in a higher TAqH calculation. The DRO analytical extracts were analyzed undiluted and also had poor agreement between results and both were flagged QN for quality issue with no directional bias.

6.12 *MULTI INCREMENT* SAMPLING OF BULK BAG STAGING AREAS

6.12.1 Bulk Bagging Area Description and History

Bristol used a number of locations across the former installation as staging areas for bulk bags containing contaminated soil prior to off-site shipment. Following discussions with the ADEC, it was decided that the staging areas should be sampled to ensure that bulk-bagged contaminants are not cross-contaminating staging areas (Figures 18 and 19). In 2012, Bristol sampled 12 DUs across four bulk bag staging areas, including six DUs at Cargo Beach, four at Site 6, one at the MOC, and one at Site 26. The DUs were sampled to provide a baseline for contaminant concentrations. Of the initial 12 DUs, the four units at Site 6 and the units at the MOC and Site 26 were resampled in 2013 after bulk bags were transferred from the staging areas and shipped off-island. Two additional units, one directly adjacent to the north side of the fuel containment area and one underneath the fuel containment, were created and sampled in 2013. Sample results did not contain contaminants in concentrations that exceeded cleanup levels.

In 2014 three bag staging areas at the MOC were sampled after all bulk bags were removed from the MOC, and Cargo Beach received a post-construction round of MI soil sampling after all bulk bags were removed from the island.

6.12.2 MI Sampling Field Activities

The corners of each of the DUs were constructed in the field using fiberglass measuring tapes and assistance from the onsite surveyors. Each DU was subdivided into equally sized cells from which sample increments were collected. A die roll/random number generator determined the location within each cell where the MI sample was collected. For non-volatile samples, Bristol collected MI samples within each DU as described in Bristol's MI Sampling SOP No. BERS-14 (Appendix G) and in accordance with the ADEC *Draft Guidance on MI Soil Sampling* document (ADEC, 2009).

For volatile sample collection, Bristol collected and weighed individual aliquots of 2 grams of soil from each cell and placed them into a measured amount of methanol in order to achieve a 1:1 ratio of soil-to-methanol. After all aliquots were collected and placed into methanol, a volume of no more than 30 mL of the methanol was transferred by syringe from the jar with the soil and methanol to a 40 mL VOA vial. The methanol was then shipped to TestAmerica for GRO and BTEX analysis.

On October 21, 2014, after site demobilization, a three person crew flew via Bering Air to the Northeast Cape site to perform MI sampling at Cargo Beach. Corners of the beach DUs were staked by surveyors prior to the demobilization of project equipment, supplies, and bulk bags.

6.12.3 MI Sampling Results at MOC Bag Staging Areas

Bulk bag staging area 14NCMOCMI001, located on the south side of the fuel containment (Figure 18), has been utilized as a bag staging area since 2011. The DU was 96 feet long by 80 feet wide (7,680 square feet) and was divided into 30 cells, each measuring 16 feet square. Samples were analyzed at TestAmerica for GRO, DRO, RRO, and BTEX. The results for sample 14NCMOCMI001 are presented in Table H16 (Appendix H). Sample results did not exceed applicable soil cleanup levels.

The DU containing sample 14NCMOCMI002 covered an area approximately 24,375 square feet and was divided into 39 cells, each measuring 25 feet square. As presented in Table G16, the MI soil sample results for 14NCMOCMI002 did not exceed cleanup levels for any contaminants.

The DU containing sample 14NCMOCMI004 covered an area approximately 9,750 square feet and was divided into 30 cells, measuring13 feet wide by 25 feet long. This DU was sampled in triplicate and is represented by MI soil samples 14NCMOCMI004,

14NCMOCMI005, and 14NCMOCMI006.). Sample results did not exceed applicable soil cleanup levels.

6.12.4 MI Sampling Results at the Fuel Containment Area

The DU for the fuel containment area covered an area approximately 1,728 square feet and was divided into 48 cells, each measuring 6 feet by 6 feet square. This DU is represented by MI soil sample 14NCMOCMI003. The MI soil samples were submitted to TestAmerica for BTEX, GRO, DRO and RRO analysis. The sample results are presented in Table G16; cleanup levels were not exceeded for any contaminants.

6.12.5 Cargo Beach MI Sampling Results

Six DUs were constructed at Cargo Beach in 2012 (Figure 19), and these same DUs were sampled in 2014 after all equipment and bulk bags were removed from the Island. The six DUs covered a total linear area of approximately 1,300 feet in length running parallel to the shoreline. The three easternmost DUs were approximately 240 feet long by 60 feet wide and encompassed an area of approximately 14,400 square feet. The three westernmost DUs were slightly smaller, with areas ranging from approximately 6,300 square feet to 11,500 square feet. The DUs were divided into 40 cells, the dimensions of which are shown on Figure 19.

One MI soil sample was analyzed per DU, for a total of six primary samples. DU 1 (the westernmost DU) was sampled in triplicate. The samples were analyzed by TestAmerica for BTEX, GRO, DRO, and RRO. The MI soil sample results are presented in Table H17 (Appendix H); contaminant concentrations did not exceed cleanup levels.

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7.0 CHEMICAL DATA COLLECTION, ANALYSIS, AND REVIEW

7.1 PRIMARY LABORATORIES

TestAmerica-Tacoma was Bristol's primary analytical laboratory for the project and analyzed the majority of the project samples. The client services manager acted as the program laboratory quality assurance officer for the project.

Ethylene glycol and methane samples were submitted to TestAmerica-Denver for analysis. Some PCB, PAH, and VOC samples were analyzed at SGS in Anchorage, Alaska.

7.2 CHEMICAL DATA QUALITY REVIEW

The project laboratory data was reviewed by Bristol chemists and the findings are presented in the Chemical Data Quality Review (CDQR) report (Appendix I). Analytical results tables, presented in Appendix H, are flagged in accordance with the CDQR and QAPP. All analytical sample results were usable for project purposes and decision making.

The sample summary sheet, ADEC laboratory checklists, laboratory variance requests, ADEC certificates of approval for contaminated sites analysis, and DoD-ELAP certifications are included as Attachments to the CDQR.

Data qualifiers (flags) were incorporated into the sample results tables:

- B – Analyte result is considered a high estimated value due to contamination present in the method blank, instrument blank, or trip blank. Results less than 10 times the reported method blank concentration will be B flagged to indicate bias.
- J – Positive result is less than the limit of quantitation (LOQ) and is considered an estimate.
- ND (LOD) – Analyte result is less than the detection limit (DL). The non-detected result (ND) has the limit of detection (LOD) in parentheses.
- QH, QL, QN – Analyte result is considered an estimated value biased (high [H], low [L], uncertain [N]) due to a laboratory quality control failure (Q) such as LCS/LCSD, MS/MSD or surrogate recoveries outside of acceptance limits. Field duplicates that do not meet relative percent difference (RPD) limits but meet other acceptance criteria are also flagged QN.

- H-Sample extracted or analyzed outside of holding time. Results have potential low bias.

The CDQR evaluates the analytical data generated from the NE Cape 2014 project, conducted June through October 2014. Analytical data was assessed to determine whether the project objectives and data quality goals were met. The assessment reviewed sample receipt conditions, extraction and analytical procedures, sampling procedures, and correspondence to method criteria and project data quality objectives, such as sensitivity.

Samples arrived at TestAmerica labs within acceptable temperatures and appropriate chain-of-custody correspondence for every submitted sample set; other discrepancies were noted. TestAmerica had a certified onsite mobile laboratory for analysis of DRO and RRO in soil. Some cooler temperatures were received at the fixed base laboratory slightly above acceptance criteria yet the temperature blanks met criteria in all cases when samples were submitted to the onsite mobile laboratory. Nearly all samples submitted to the mobile laboratory were delivered within one to two hours of collection.

A limited number of sample coolers shipped to the TestAmerica laboratory in Tacoma, Washington arrived slightly below or above 4 ± 2 degrees Celsius (°C); however, no samples broke due to freezing in coolers where the temperature fell below criteria. In many cases the cooler temperatures were above criteria for either the temperature blank or the cooler itself, but usually within temperature criteria for one of the two measurements. There were instances where the information on the container labels did not match the chain-of-custody. For these instances, the laboratory used information from the chain-of-custody and provided documentation of the discrepancies in the laboratory report case narratives. One amber bottle arrived broken for DRO analysis on sample 14MOCGW12 in work order 580-45122-1; however, the laboratory was able to proceed with analysis using the remaining preserved bottle that was received in good condition.

Samples that were extracted or analyzed after holding times had expired were H qualified (estimated values biased low). All samples met hold times, one instance noted below resulted in the qualification of a DRO result for low recovery that otherwise would have been impacted by holding times:

Two DRO samples, 14NCMOCGW06 and 14NCMOCGW07, on work order 580-45122-1, were re-extracted outside of holding time due to method blank contamination greater than one-half the LOQ. The re-extracted samples had method blank contamination at a concentration less than one-half the LOQ and also had a low laboratory control sample duplicate (LCSD) recovery for DRO and RRO. The reviewer used professional judgment and reported the initial sample results with their DRO results B flagged for the two affected samples.

Extraction and analytical procedures were acceptable based on method blanks, laboratory control sample (LCS)/LCSD, matrix spike/matrix spike duplicates (MS/MSDs), and surrogates, with noted exceptions.

7.2.1 Surrogate Recoveries

Analytical results were qualified as estimated with a high bias (QH) due to high surrogate recoveries. Detected and non-detected results were qualified QL if surrogate recoveries failed to meet the lower acceptance limit:

- The glycol analysis of sample 14NC10SS006 in work order 580-44702-1 had low recovery of the surrogate 1,4-butanediol. The results were ND. ND results for sample 14NC10SS006 were flagged QL for quality issue with potential low bias 1-methylnaphthalene and 2-methylnaphthalene in samples 13NC28STW17 and 13NC28STW19.
- The glycol method blank had reportable detections of ethylene glycol. All sample results were ND, so no flagging was necessary. The surrogate recovery for sample 14NC10SS024 in work order 580-44911-1 was below the lower acceptance limit and the ND results were flagged QL for quality issues with potential low bias. The sample was re-extracted with similar results.

- The GRO analysis had low field surrogate recovery in sample 14NC28SD01 in work order 580-44016-1. The GRO result is flagged QL for low surrogate recovery and the GRO result is ND. It should be noted that sample 14NC28WCSD01 had a reported percent solids of 43%, which may explain the low surrogate recovery (matrix interference). The sample was collected from a geo-tube after over-winter dewatering yet still had greater than 50% moisture content when a sample was collected and analyzed. The sample results were used for waste characterization for disposal purposes and the results are usable for project purposes. The RRO surrogate on sample 14NC28WCSD01 exceeded the upper control limit and the RRO result is flagged QH for quality issue with potential high bias.
- The closing CCV for PCB analysis had the CCV surrogate recover 2% below the lower acceptance limit. Samples were reanalyzed with similar results. A variance was granted by the USACE project chemist for reporting sample results (ND) as sample surrogates met recovery limits.
- The PAH surrogate, Terphenyl-d14, recovered above the upper acceptance limit in sample 14NCMOCSW11. The fluoranthene and pyrene results for 14NCMOCSW11 are flagged QH for quality issue with potential high bias, all other PAH results for this sample were ND.
- Some PAH surrogates failed to meet recovery limits in samples in work order 1143700, which were analyzed by SGS-Anchorage. Some samples were diluted prior to analysis due to dark colored extracts before initial analysis. Sample results that were ND with high surrogate recoveries were not flagged. Samples with high surrogate recoveries and reportable PAH concentrations were flagged QH. PAH sample results with low surrogate recoveries are flagged QL, even if non-detect.
- The RRO surrogate recoveries in work order 58044697-1 for samples 14NC10SS002, 14NC10SS005, 14NC10SS007 and the MSD exceeded the upper control limit, the DRO surrogate met control limits. Sample 14NC10SS001 had the DRO surrogate recovery exceed the upper control limit. Sample results reported with surrogate recoveries exceeding the upper control limit are flagged QH for quality issues with potential high bias.
- Sample 14NCMOCESS007 I work order 580-44718-1 had low RRO surrogate recovery, its RRO result is flagged QL for quality issue with potential low bias.
- Sample 14NCMOCGW16 in work order 580-45122-1 had the DRO surrogate recover at less than the lower recovery limit. The DRO result is flagged QL for quality issue with potential low bias.

7.2.2 Laboratory Spiked Sample Recoveries (LCS/LCSD and MS/MSD)

Detected results were qualified as estimated with a potentially high bias (QH) due to LCS and/or LCSD and MS/MSD recoveries exceeding their respective upper control limits. Non-detect and detected results were qualified as estimated with a potentially low bias (QL) due to LCS and/or LCSD and MS/MSD recoveries failing to meet their respective lower control limits.

- The VOC MS had recoveries exceed the upper control limit for 2,2-dichloropropane and vinyl chloride on sample 14NC10SS021. The VOC MSD had recoveries exceed the upper control limit for vinyl chloride and several MS/MSD analytes failed RPD limits. However, upon examination of MS/MSD percent recoveries, all MS/MSD percent recoveries met precision limits when RPD is calculated on percent recoveries and not on raw recoveries. No flags were assigned based on precision in MS/MSD recoveries for VOCs. Results for sample 14NC10SS021 were flagged QH for 2,2-dichloropropane and vinyl chloride, the sample results were ND.
- The VOC MS had 7 analytes exceed the upper control limits, only benzene was detected in the sample and having a recovery exceed the upper control limit. The benzene result for sample 14NCDRUM001 in work order 580-44831-1 was flagged QH for quality issue with potential high bias.
- The PAH MS/MSD on sample 14NCMOCSW12 in work order 580-45125-1 had recoveries exceed the upper control limit for 1-methylnaphthalene and 2-methylnaphthalene, all other PAH results were non-detect. 1-methylnaphthalene and 2-methylnaphthalene results for sample 14NCMOCSW12 were flagged QH for quality issue with potential high bias due to the MS/MSD recoveries for these 2 analytes.
- The PAH MS/MSDs on sample 14NC10SS031 in SGS-Anchorage work order 1143700 failed to meet acceptance criteria on several analytes, the case narrative noted matrix interference. The PAH parent sample and MS/MSD were analyzed at a 5x dilution, several PAH analytes had no reported recovery at all. MS/MSD recoveries that were below acceptance criteria are flagged QL, those with recoveries greater than the upper acceptance limit are flagged QH. Fluorene is flagged QH due to the high recoveries event though the MS/MSD failed to meet RPD limits.
- The RRO MSD on sample PSP081 (580-44665-1) exceeded the upper recovery limit, possibly due to a heterogeneous matrix. The RRO MS and RRO surrogate

were well within recovery limits. The RRO result for sample PSP041 is flagged QH for quality issue with potential high bias. The results are still usable for project purposes, which is pre-stockpile sampling before a liner and excavated soil were placed at the location.

- The DRO MS/MSD on sample 14NCMOCSW03 in work order 580-44676-1 failed to meet the lower recovery limit and the DRO result is flagged QL for quality issues with potential low bias. The LCS/LCSD met recovery limits.
- The DRO/RRO batch MS/MSD on sample 14NCMOCSS001 in work order 580-44683-1 had spike recoveries below the lower acceptance limit. The DRO parent sample concentration was greater than 4 times the spike concentration so no flags were assigned. The RRO parent sample concentration was within 4 times the spike concentration so the RRO result was flagged QL for quality issue with potential low bias.
- The matrix spike performed on sample 14NC32SS001 in work order 580-44697-1 had low DRO recovery, the surrogates and RRO recovery met acceptance limits. The parent DRO result is flagged QL for quality issue with potential low bias.
- The metals MS/MSD on sample 14NC10SS021 in work order 580-44802-1 exceeded the upper control limits in the MS for chromium and vanadium and the MSD also exceeded upper control limits for chromium, vanadium and zinc. The LCS/LCSD and post-digestion spike met control limits. The chromium, vanadium and zinc results for sample 14NC10SS021 are flagged QH for high recoveries in the MS and/or MSD.
- The metals MS/MSD recoveries of chromium and vanadium exceeded the upper control limit on sample 14NCWELLSS01 in work order 580-44828-1. The lab LCS was in control limits so the chromium and vanadium results for sample 14NCWELLSS01 are flagged QH for quality issue with potential high bias.
- The metals MS/MSD on sample 14NC10SS031 in work order 580-44911-1 had recoveries of barium chromium and vanadium exceed the upper control limit. The positive results are flagged QH for quality issues with potential high bias. The affected results are well below site-specific cleanup levels.
- The mercury MS/MSD on sample 14NC10SS031 in work order 44911-1 had recoveries exceed the upper control limit. The positive results for sample 14NC10SS031 are flagged QH for quality issues with potential high bias. The affected results are well below site-specific cleanup levels.
- The PAH LCS had low recovery of 1-methylnaphthalene and naphthalene; sample results for these analytes on sample14NC28WCSD01 in work order 580-44016-1 were flagged QL for quality issues with potential low bias.

- The PAH LCSD in extraction batch 580-165193 analyzed with samples from work order 580-44676-1 had low recoveries for several analytes and surrogates. The MS/MSD met accuracy and precision criteria as did the LCS so over-concentration is likely the root cause of the low LCSD recoveries. Samples with positive results associated with the low LCSD recoveries are flagged QL for quality issues with potential low bias.
- The 8270 PAH MS/MSD on sample 14NC10SS005 in work order 580-44702-1 had low recoveries for anthracene and fluorene in sample 14NC10SS005. Anthracene was detected in the sample at a concentration well below the cleanup level, fluorene was non-detect. Both results are flagged QL for quality issues with potential low bias.
- The PAH MS/MSD failed low for several analytes on sample 14NCMOCGW01 in work order 580-45122-1. The PAH MS/MSD parent sample was ND for the low recovering analytes. The ND results are flagged QL for quality issue with potential low bias.
- The RRO matrix spike on sample PSP041 (580-44662-1), failed to meet the lower recovery limit, possibly due to a heterogeneous matrix. The MSD and RRO surrogate were well within recovery limits. The RRO result for sample PSP041 is flagged QL for quality issue with potential low bias. The results are still usable for project purposes, which is pre-stockpile sampling before a liner and excavated soil were placed at the location.
- The DRO MS/MSD on sample 14NCMOCSW03 in work order 580-44676-1 failed to meet the lower recovery limit and the DRO result is flagged QL for quality issues with potential low bias. The LCS/LCSD met recovery limits.
- The DRO/RRO batch MS/MSD on sample 14NCMOCSS001 in work order 580-44683-1 had spike recoveries below the lower acceptance limit. The DRO parent sample concentration was greater than 4 times the spike concentration so no flags were assigned. The RRO parent sample concentration was within 4 times the spike concentration so the RRO result is flagged QL for quality issue with potential low bias.
- The matrix spike performed on sample 14NC32SS001 in work order 580-44697-1 had low DRO recovery, the surrogates and RRO recovery met acceptance limits. The parent DRO result is flagged QL for quality issue with potential low bias.
- All three sets of DRO/RRO MS/MSDs failed to meet recovery limits in work order 580-44758-1. The parent sample concentrations of 2 of the 3 MS/MSDs were greater than four times the spike concentration so no flagging is required. The third set of MS/MSDs failed to meet recovery criteria for DRO so the parent sample

(14NCMOCBW442) DRO result is flagged QL for quality issue with potential low bias.

- Two sets of DRO MS/MSDs in work order 580-44852-1 failed to meet the lower recovery criteria. The case narrative noted that the parent sample concentration on sample 14NCMOCBW504 was greater than 4 times the spike concentration so no flags were assigned. The second set of DRO MS/MSDs on sample14NCMOCBW488 failed to meet lower recovery limits, the results are flagged QL for quality issue with potential low bias.
- The DRO/RRO MS/MSD in work order 580-580-44876-1 failed to meet the lower recovery criteria. The surrogates were well within control limits, the spike recoveries were extremely out of control suggesting that the MS/MSD was never spiked into the soil. DRO and RRO results for sample 14NC10SS031 are flagged QL for quality issue with potential low bias.
- The DRO MS recovery was 73%, which was 2 percent below the lower acceptance criteria. The DRO result for sample 14NCMOCESS029 in work order 580-44877-1 was flagged QL for quality issue with potential low bias.
- The DRO MS had recoveries at less than the lower acceptance limit in work order 580-46105-1. The DRO result for parent sample 14NCCBMI003 was flagged QL.
- The VOC MS had m,p-xylenes recover at less than the lower control limit on sample 14NCCBMI003 in work order 580-46105-1, the sample result was ND and a QL flag was assigned to the m,p-xylene result for the low MS recovery
- The mercury MS/MSD on the single project sample submitted in work order 580-44016-1 failed to meet lower recovery limits, the lab duplicate on the same sample also exceeded RPD limits. The mercury result for sample 14NC28WCSD01 is flagged QL for low MS/MSD recoveries as the primary qualifier flag.
- Results were qualified as estimated with an unknown bias (QN) due to LCS/LCSD or MS/MSD RPD, or laboratory duplicate RPD outside of criteria:
- The GRO MS/MSD recoveries for sample 14NC10SS021 in work order 580-44802-1 were either non-detect, or way below acceptance range. Upon review the surrogate recoveries for the MS/MSD were well within acceptance range leading the reviewer to believe that no GRO spike was added to the MS/MSDs so no flags were assigned. The GRO/LCS/LCSD also failed to meet RPD limits with an RPD of 33%. All samples in this work order with detectable results were flagged QN for quality issues with no directional bias.

- The SVOC LCS/LCSD failed RPD limits for 2-methylnaphthylene and 2-methylphenol, the positive sample results for 14NCASH1 were flagged QN for quality issue with no directional bias.
- The internal standard perylene –d12 recovery was outside of acceptance limits for the MB, LCS and LCSD in the PAH extraction batch 580-166169 in work order 580-44806-1. The QC results were not reported for benzo[b]fluoranthene or benzo[k]fluoranthene with the exception of the MS/MSD, which met recovery and internal standard criteria with the exception of the MS/MSD not meeting RPD requirements for acenaphthylene. The acenapthylene result for 14NCMOCSW07 is flagged QN for quality issue with no directional bias.
- The DRO/RRO batch of 2 primary samples also had 2 sets of MS/MSDs on the 2 primary samples in work order 580-45000-1. The 2 samples were field duplicates. The DRO recovery likely failed in both samples due to the parent sample DRO concentration being greater than 4 times the spike concentration. While not documented, the reviewer suspects that the DRO/RRO MSD on sample MOCBW507 was double spiked based on the MS recovery. Because of the high parent sample concentrations and relative agreement of the field duplicates, sample results are flagged QN for quality issues with no directional bias.
- The mercury lab duplicate on sample 14NCWELLSS01 in work order 580-44828-1 failed to meet RPD control limits with a 48% RPD, control limit is 20% RPD. The mercury result for sample 14NCWELLSS01 is flagged QN for quality issue with no directional bias. Both mercury results were nearly 100 times below the mercury cleanup level.

Sample results were B qualified to indicate that sample concentrations were less than 10 times the reported blank concentration in either the trip blank or method blank. Results may be potentially biased high.

- The 8260 method blank in batch 580-167475 in work order 580-45009-1had a reported toluene concentration of 3.31 micrograms per kilogram (µg/Kg). Sample 14NC28MI002 was the only sample in this work order with detectable concentration of toluene and it is B flagged.
- The BTEX method blank 580-167033 in work order 580-44806-1 had reportable concentrations of benzene and m, p-xylenes at less than half the LOQ. Project samples and the trip blank with reportable concentrations of benzene and m,p-xylenes were B flagged for blank contamination. All samples had reportable benzene below the LOQ, sample 14NCMOCSW07 had reportable concentrations of m,p-xylenes.

- The TCLP VOC method blank, analyzed in work order 580-44676-2 reported chloroform at 23.7 micrograms per liter (µg/L) and benzene at 38.3 µg/L. Only sample 14NCASH1 was analyzed for TCLP VOCs and its chloroform and benzene results were B flagged for blank contamination.
- The VOC analysis of waste water samples 14NCBOOTWASH1 and Trip Blank 072514-1 had several analytes detected in the method blank; bromobenzene (0.139 µg/L), n-propylbenzene (0.222 µg/L), 1,3,5-trimethylbenzene (0.339 µg/L), 1,2,4-trimethylbenzene (0.224 µg/L), sec-butylbenzene (0.484 µg/L), p-isopropyltoluene (0.356 µg/L), 1,2-dichlorobenzene 0.311 µg/L and 1,2,4-trichlorobenzene (above the LOQ at 1.56 µg/L). Sample results for 14NCBOOTWASH1 that were less than 10 times the reported method blank concentrations were B flagged, specifically results for 1,2,4-trymethylbenzene, p-isopropyltoluene, and sec-butylbenzene. The results are still usable for waste characterization and disposal. None of the analytes exceeded the concentration of hazard determination and the waste liquids were disposed of as non-hazardous waste.
- The VOC method blank in work order580-44831-1 had a reportable concentration of vinyl chloride at a concentration greater than one-half the LOQ. A variance was granted for reporting vinyl chloride. Vinyl chloride was also detected in sample 14NCDRUM001 and the result is B flagged for blank contamination with potential high bias.
- Acetone was detected in sample 14NC10SS024 and the trip blank in work order 580-44911-1. The acetone result for sample 14NC10SS024 if flagged both QL for the low CCV recovery and also B flagged for detection in the trip blank. The method blank was ND for acetone.
- The 8260 method blank did have detections of 2-hexanone, 4-MIBK and naphthalene. 4-MIBK was only detected in the trip blank. Naphthalene was detected in sample 14NC10SS024 and the trip blank at concentrations well below the cleanup level, those results are B flagged.
- The VOC method blank in work order 580-45122-1 had reportable concentrations of 1,2,3 trichlorobenzene, 1,2,4 trichlorobenzene and naphthalene detected at less than one-half the LOQ. The single sample in this work order analyzed for VOCs along with a trip blank had positive detections of these three analytes and the results are B flagged for blank contamination. All three results were well below cleanup levels.
- The GRO method blank in work order 580-44676-1 had a reportable concentration of GRO at 0.0192 mg/L. All sample results in this sample delivery group (SDG) were less than ten times the blank concentration and all were B flagged to indicate

blank contamination with potential high bias. The results were still usable for monitoring surface waters downgradient of the MOC excavation.

- The GRO method blank in work order 580-44702-1 had a reportable concentration of GRO at 2.5 mg/Kg. All sample results in this SDG except two were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias. The results were still usable to demonstrate that GRO is not above cleanup levels at Site 10.
- The GRO method blank in work order 580-44806-1 had a reportable concentration of GRO at 0.021 mg/L. All sample results in this SDG were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias. The results were still usable to demonstrate that GRO is not above cleanup levels in surface waters adjacent to the MOC.
- The PAH MB in work order 580-44802-1 had pyrene detected at 3.11 µg/Kg, which is greater than one-half the LOQ. A USACE variance was granted for reporting pyrene in the MB at greater than half the LOQ. Roughly half of the samples submitted in this work order had pyrene detected at less than 10 times the MB concentration and are B flagged.
- The PAH method blank in work order 580-45122-1 had positive detections at less than half the LOQ for anthracene, benzo[b]fluoranthene, chrysene, phenanthrene and pyrene. Most sample results were ND, those affected results whose concentrations are less than 10 times the method blank results are B flagged with potential high bias. All B flagged results were below their respective cleanup levels.
- The DRO method blank in work order 580-44658-1 had a reportable concentration at 9.42 mg/Kg. Eighteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.
- The DRO method blank in work order 580-44660-1had a reportable concentration at 9.4 mg/Kg. Thirteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.
- The DRO method blank in work order 580-44662-1 had a reportable concentration at 10.4 mg/Kg, which is greater than on-half the LOQ. A variance was granted by the USACE chemist for reporting results. Eighteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.

- The DRO/RRO method blank in work order 580-44663-1 had a reportable concentration of DRO at 9.3 mg/Kg and RRO at 13.4 mg/Kg. Every sample in this SDG had concentrations less than ten times the method blank concentration for either DRO, RRO or both and their results are B flagged to indicate blank contamination with potential high bias.
- The DRO method blank in work order 580-44683-1 had a reportable concentration at 6.4 mg/Kg. Nine of the 15 samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.
- The DRO method blank in work order 580-44718-1 had a reported concentration of 6.12 mg/Kg, which was less than half the LOQ, sample results less than 10 times the blank concentration are B flagged. Five of the eleven samples submitted in this SDG were B flagged.
- The DRO method blank in work order 580-44747-1 had a reported concentration of 6.81 mg/Kg, which was less than half the LOQ, sample results less than 10 times the blank concentration are B flagged. Two of the five samples submitted in this SDG were B flagged.

7.2.3 Field Duplicate Frequencies

Field sample duplicate pairs are specified in the QAPP at a minimum rate of 10 percent per matrix and analytical suite. Field duplicates were collected at each site at the following frequencies:

- Site 6: Four primary soil samples and one field duplicate, 25% frequency
- Site 8: Two primary water samples and one field duplicate, 50% frequency
- Site 10: Forty-one primary soil samples and six field duplicates (15%) along with two bulk waste samples.
- Site 21: Mapping; One-hundred and twenty primary samples and twelve field duplicates (10%). Six primary water samples and three water-field duplicates (50%), thirty-one soil excavation confirmation samples and four field duplicates(13%), and three soil waste samples.
- Site 27: One primary soil sample and one field duplicate (100%).
- Site 28: One MI soil sample and two field replicates (100%), and one waste sample from the Geotube.
- Site 32: Nine soil samples and one field duplicate (11%).

- MOC: 15 groundwater samples and two field duplicates (13%), nine surface water samples and three field duplicates (33%), two-hundred fifty-eight soil samples and thirty-eight field duplicates (15%). Sixty-six primary bulk waste samples and six field duplicates (9%). One MI sample and two replicates (100%).
- Cargo Beach (Bag Staging Area): Six MI soil samples and two replicates (17%).

Field duplicate results met QAPP criteria of 30% RPD for water samples and 50% RPD for soil samples, with the exception of samples listed in Table 7-1, which are flagged QN. Imprecision was observed in sample results, RPDs, and field duplicate samples for analytes listed in Table 7-1.

Table 7-1 Field Sample Duplicate Pair Results

Parent Sample ID/ Laboratory Sample ID	Field duplicate Sample ID/ Laboratory Sample ID	Compound	Units	Parent Field Sample Result	Field duplicate Result	RPD (%)
14NC21SS024-3	14NC21SS024-34	Arsenic Soil	mg/Kg	6.1	3.4	**56.8**
PSP040	PSP085	RRO Soil	mg/Kg	75	140	**60.4**
14NCMOCSP04*	14NCMOCSP05*	DRO Soil RRO Soil	mg/Kg	**27000** 2600	**66000** **67000**	**83.9** **185**
MOC BW470	MOCBW565	RRO Soil	mg/Kg	820	400	**69**
14NC10SS014	14NC10SS015 (Lab Replicate)	1,2,4-trimethylbenzene Chrysene Phenanthrene Soil	mg/Kg	120 7.87	760 23 26	**145** **98.7** **115**
14NCMOCSW05	14NCMOCSW08	RRO Surface Water	mg/L	3.4	2.1	**47**
14NCWELLSS05	14NCWELLSS06	Ethylbenzene Soil	µg/Kg	210	15 J B	**173**
14NCWELLSS13	14NCWELLSS14	Aroclor 1254 Soil	µg/Kg	210	61	**110**
MOCBW567	MOCBW484	DRO Soil	mg/Kg	1900	810	**80**
MOCBW481	MOCBW566	DRO Soil	mg/Kg	1500	330	**128**
14NCPOSP065	14NCPOSP085	DRO Soil	mg/Kg	230	83	**94**

Table 7-1 Field Sample Duplicate Pair Results (continued)

Parent Sample ID/ Laboratory Sample ID	Field duplicate Sample ID/ Laboratory Sample ID	Compound	Units	Parent Field Sample Result	Field duplicate Result	RPD (%)
14NC08SWA02	14NC08SWA03	1-methynaphthalene	µg/L	3.4	6.2	**58**
		2-methylnaphthalene	µg/L	3.5	7.3	**70**
		Fluorene	µg/L	0.5	1.1	**75**
		Naphthalene	µg/L	1.6	3.8	**81**
		DRO	mg/L	1.6	0.97	**49**
		RRO	mg/L	0.45	0.24	**60**
		Surface Water				

Notes:
*soil associated with this sample exceeded site-specific cleanup criteria and was excavated and containerized for removal
BOLD = Exceeds acceptance criteria except 14NCMOCSP04 and 14NCSP05, which exceed cleanup levels.

µg/Kg = micrograms per kilogram
µg/L = micrograms per liter
DRO = diesel range organics
field dup = field duplicate
ID = identifier
LOQ = limit of quantitation
mg/Kg = milligrams per kilogram
mg/L = milligrams per liter
RPD = relative percent difference
RRO = residual range organics

Project sensitivity was achieved with the exception of soil analytical results from Site 10. Site 10 was the only soil excavation with full list VOCs analyzed as potential target analytes due to the discovery of buried drums. PCE and TCE were identified as COCs when they were identified as having been contained in drums along with waste oil and ethylene glycol. For the most part, analytical results supported project goals with reporting of COC analytes with the LOD at concentrations less than their respective cleanup levels or evaluation criteria. The major exceptions were samples submitted to SGS in Anchorage whose reporting limits were based on 50 grams of soil (dry weight) being collected and preserved with only 25 mL of methanol. The primary analytical laboratory, TestAmerica in Tacoma, Washington used a basis of 25 grams of soil to 25 mL of methanol at a 1:1 ratio. Bristol was not aware at the time it requested reporting limits from SGS that it was based on 50 grams of soil and not 25 grams. This was not made evident until after analytical results were reported and inquiries were made as to why reporting levels were

higher than expected. The lower reporting levels were significant because these were excavation confirmation samples that had potential to demonstrate that concentrations of contaminants remaining in soil did not exceed cleanup levels or evaluation criteria at Site 10. As a result, 15 compounds were reported ND with LODs greater than evaluation criteria. A final round of sampling at Site 10 for VOCs and submitted to TestAmerica-Tacoma for analysis still indicated that 2 samples had 1,1-dichloroethene present at concentrations exceeding the evaluation criteria in soil; 12 compounds were reported ND with LODs greater than evaluation criteria.

7.3 Analytical Methods for Soil and Sediment

Appendix K, Table K1 presents compounds (analytes), analytical methods, laboratory limits, and the corresponding cleanup levels and evaluation criteria for soil.

7.4 Analytical Methods for Groundwater and Surface Water

Appendix K, Table K2 presents the compounds (analytes), analytical methods, laboratory limits, and the corresponding cleanup levels and evaluation criteria for groundwater.

7.5 Analytical Methods for Wastes

Bristol collected characterization samples for all wastes shipped off-island. DRO and RRO analyses were performed in the field laboratory. TestAmerica in Tacoma, Washington performed other analyses. Waste characterization matrices and analytical methods are listed in Table 7-2.

Table 7-2 Analytical Methods for Wastes

Sample Type	Analyte(s)	Analytical Method(s)
POL Soil from the MOC	DRO/RRO	AK102/103
Arsenic Soil from Site 21	TCLP extraction and analysis performed for arsenic	1311/6020
Site 10 Soil	TCLP extraction and analyses for RCRA 8 metals, PCBs, Glycols, VOCs, PAHs, GRO, DRO and RRO	1311/6020, 8082, 8015C, 8260, 8270-SIM, AK101, AK102, AK103

Notes:
AK = Alaska Test Method
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
POL = petroleum, oil, and lubricants
RRO = residual range organics
SVOCs = semivolatile organic compounds
VOC = volatile organic compounds

7.6 Waste Disposal and Cleanup Criteria

Waste disposal criteria were based on several regulations:

- Title 18 of the *Alaska Administrative Code*, Chapters 60 (Solid Waste Management); 62 (Hazardous Waste) 75 (Oil and Other Hazardous Substances Pollution Control); and 78 – (Underground Storage Tanks) (2013)
- 29 CFR 1910 and 1926 – Health and Safety for General Industry and Construction
- 33 CFR 138 – Financial Responsibility for Water Pollution
- 40 CFR 60, 61, 260–270, 279, 300–303, and 761 – EPA –RCRA; CERCLA; and Toxic Substances Control Act
- 46 CFR 150, 151, and 153 – U.S. Coast Guard, Department of Homeland Security
- 49 CFR 171–178 – Hazardous Materials Transportation

Cleanup levels and evaluation criteria are presented in Appendix K, Tables K1 and K2.

The referenced criteria for soil, surface water and groundwater are derived from several sources and regulations:

- *2009 Northeast Cape Decision Document* (USACE, 2009).
- Evaluation criteria for soil not listed in the SOW or the 2009 decision document were obtained from *18 AAC 75.341*, Table B1, Method Two – Soil Cleanup Levels for Migration to Groundwater (ADEC, 2014).

- Evaluation criteria for groundwater were obtained from *18 AAC 75.345*, Table C, Groundwater Cleanup Levels (ADEC, 2012).
- Evaluation criteria for surface water were obtained from the 2009 decision document and the *Alaska Water Quality Criteria Manual* for Toxic and Other Deleterious Organic and Inorganic Substances (ADEC, 2008).

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8.0 SUMMARY OF 2014 ACCOMPLISHMENTS

By the end of the 2014 field season, Bristol completed all required tasks associated with the SOW including:

- Excavated and removed 4,489.92 tons of PCS in accordance with the *2009 Decision Document* (USACE, 2009)
- Collected soil samples from 40 soil borings at Site 21 and excavated and removed 107.35 tons of arsenic-contaminated soil
- Sampled and installed seven new monitoring wells at the MOC; collected samples from the soil borings prior to well installation; collected groundwater samples from each of the new monitoring wells and analyzed wells for MNA parameters
- Abandoned two monitoring wells at the MOC
- Reconditioned eight monitoring wells at the MOC
- Removed 10.97 tons of debris from across the NE Cape site and in the vicinity of the Site 7 landfill
- Removed, transported, and disposed of 1.27 tons of tar and tar-contaminated soil associated with the buried drums found at Site 10
- Excavated two test pits at Site 6 corresponding to historical sample locations and analyzed soil samples for PCB concentrations; PCB-contaminated soil at Site 6 was not encountered
- Collected two surface water samples at Site 8 and submitted the samples for laboratory analysis
- Collected soil samples corresponding with Site 10's historical sample locations and analyzed the samples for contaminants; subsequently excavated, containerized, and shipped 265.6 tons of contaminated soil from Site 10
- Collected soil samples from Site 27 and submitted samples to project laboratory for naphthalene analysis; naphthalene contamination was not encountered during the investigation
- Investigated Site 32 for POL-contaminated soil; encountered DRO-contamination resulting in the excavation and removal of 53.13 tons of contaminated soil
- Removed an open grate at Site 31 concrete foundation and backfilled the resulting concrete void with clean material to eliminate the safety risk. PCB-contaminated soil located in the surrounding area at Site 31 had previously been investigated with the excavation and removal of PCB-contaminated soil above the cleanup level of 1 ppm.

In addition, Bristol completed several remaining tasks associated with 2013 contract W911KB-13-C-0004:

- Collected geotechnical samples and waste characterization samples from sediment that overwintered inside geotextile dewatering tubes located at the Site 28 work pad; containerized, transported, and disposed of the sediment
- Collected MI soil samples at the Site 28 work pad following sediment and infrastructure (sediment dewatering tubes and water containments) removal
- Transported and disposed of miscellaneous debris collected from areas located site-wide
- Collected MI samples at the Cargo Beach staging area following the completion of 2014 field activities

The 2014 POL-contaminated soil removal efforts at the MOC were a continuation of removal actions which were initiated in 2011. Since 2011, the USACE has contracted Bristol to remove POL-contaminated soil at the MOC. Bristol established an excavation plan based on UVOST and scheduled excavation for several soil units (plumes). Ten units (and additional subunits) have been undergoing excavation since 2011; during the 2014 field season, Bristol excavated the remaining units from plumes C, E, and I. The USACE considers all excavation objectives to have been conducted in accordance with the *2009 NE Cape Decision Document* (USACE, 2009). Excavation activities were performed to the extent feasible based on site conditions, with the exception of areas where excavation would have negatively impacted surrounding areas. In accordance with the *2014 Work Plan* (Bristol, 2014) approved by the ADEC, soil was removed down to 15 feet bgs; or 2 feet below groundwater; or until confirmation soil samples indicated contaminants did not exist in concentrations that exceeded applicable cleanup levels. Bristol excavated a total of 4,489.92 tons of POL-contaminated soil from plumes E, C, and I in 2014 and shipped all contaminated soil off site for disposal. Bristol loaded the contaminated soil into a total of 457 bulk bag containers which served as the intermodal shipping containers for the contaminated soil. Bristol collected confirmation samples from all POL excavations at

frequencies that adequately characterized the soil; waste characterization samples were collected from waste soil in order to make a proper waste determination and to meet disposal facility acceptance criteria.

Bristol excavated soil from Sites 10, 21, and 32. Site 10 field efforts began as an investigation to locate historical samples that contained DRO concentrations above the site-specific cleanup level of 9,200 mg/Kg identified during the 5-year review. Bristol collected six new samples from these historical locations and analyzed the samples for GRO, DRO, RRO, PCBs, VOCs, PAHs, glycols, and RCRA 8 metals plus nickel, vanadium, and zinc. Sample results from Site 10 exceeded the site-specific cleanup level for DRO; and concentrations of VOCs exceeded migration to groundwater evaluation criteria identified in Table C –Groundwater Cleanup Levels identified in *18 AAC 75.345* (ADEC, 2014). Bristol removed 265.6 tons of POL-contaminated soil from Site 10. The contaminated soil was loaded into 40 bulk bag containers which were properly characterized and shipped off site for disposal.

Bristol collected 120 primary soil samples from 40 soil borings at Site 21; samples indicated arsenic was present at concentrations exceeding the site-specific cleanup level of 11 mg/Kg. Bristol excavated 107.35 tons of arsenic-contaminated soil, loaded it into 17 bulk bag containers, properly characterized the containers, and shipped them off site for disposal.

Bristol collected soil samples from historical sample locations at Site 32 to determine if POL-contamination was present at concentrations exceeding applicable cleanup levels. DRO-contaminated soil was encountered, resulting in the excavation and removal of 53.13 tons of soil. DRO-contaminated soil was loaded into seven bulk bag containers which were properly characterized and shipped off site for disposal. Confirmation sample results indicated that all DRO-contaminated soil had been removed to concentrations below the site-specific cleanup level of 9,200 mg/Kg.

Site 6 was investigated for the presence of PCBs and Site 27 was investigated for the presence of naphthalene. A review of site information indicated that these contaminants might remain in concentrations that exceed applicable cleanup levels. Bristol collected soil samples that corresponded spatially with historical sample locations and analyzed the samples accordingly for PCBs or naphthalene. There were no detection of PCBs at Site 6 and all detections of DRO, RRO and naphthalene at Site 27 were below applicable cleanup levels. Characterization of these sites was determined to be complete and the data gaps presented in the SOW were addressed.

9.0 REFERENCES

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FIGURES

Drawing: O:\JOBS\34140087 NE CAPE 2014\ACAD-ENVIRO\REPORTV2\DWGS\FIGURE1.DWG - Layout: 8.5 X 11
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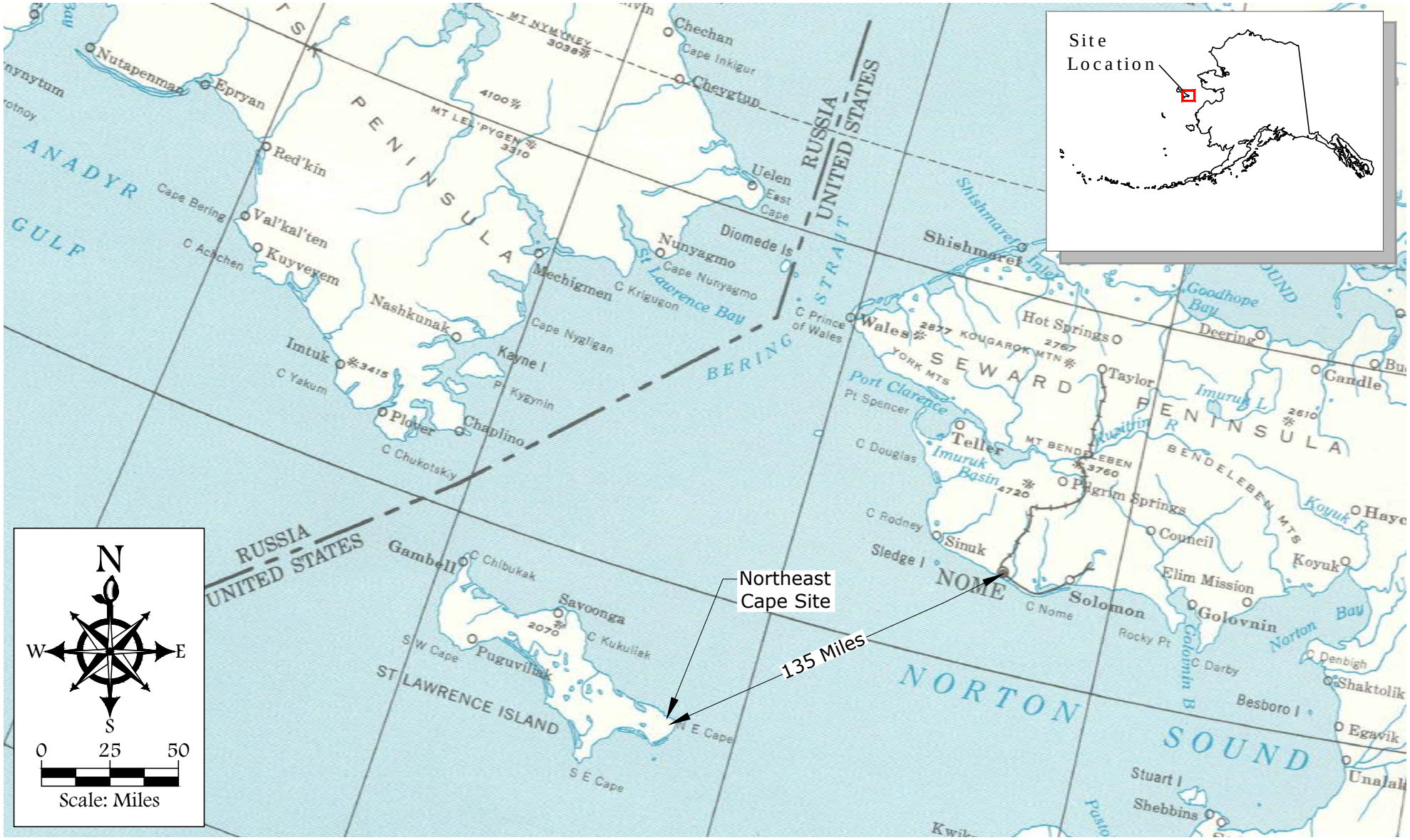
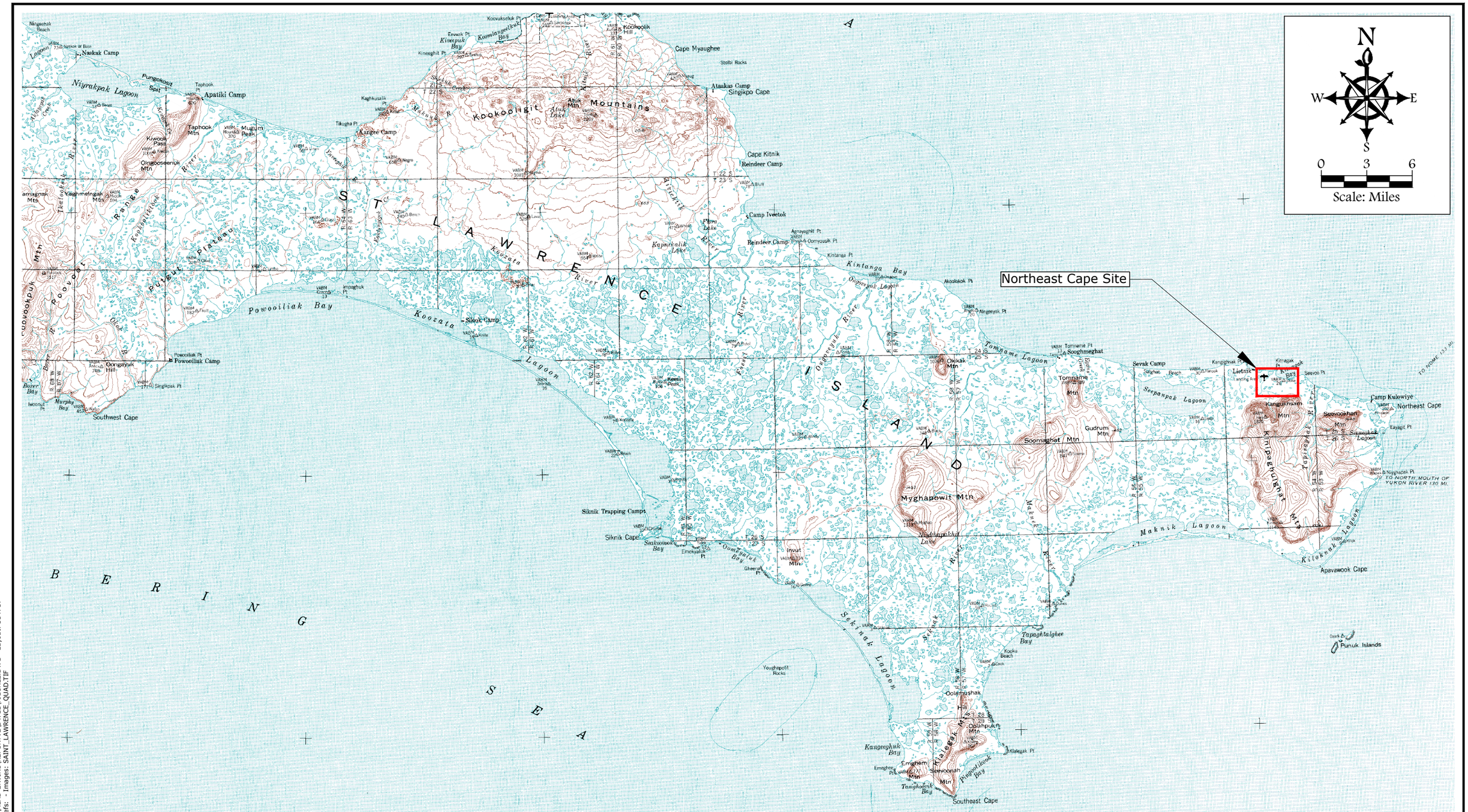


Note:
HTRW hazardous, toxic, and radioactive waste

Source:
USGS National Atlas Sheet Number 42-43

FIGURE 1
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
VICINITY MAP

DATUM: N/A	DATE 02/13/2014
PROJECTION: N/A	DWN. NAP
Project No. 34140087	SCALE 1" = 50 mi
	APPRVD. RJ



Note:
HTRW hazardous, toxic, and radioactive waste

FIGURE 2
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
LOCATION MAP

	DATUM: NAD 27	DATE 02/13/2014
	PROJECTION: UTM 2N M	DWN. NAP
	Project No. 34140087	SCALE 1" = 6 mi
		APPRVD. RJ

Drawing: O:\JOBS\34140087 NE CAPE 2014\ACAD-ENVIRO\REPORTV2\DWGS\FIGURE2.DWG - Layout: 11 X 17
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Bering Sea

Barge Landing Area

Cargo Beach Staging Area

Site 3 Fuel Pump House

Field Lab

Medical Facility

Temporary Construction Camp

Over Winter Equipment Staging Area

Bulk Bag Staging Area at Site 6

Site 7-Cargo Beach Landfill

Pole Locations

Sugitughneq River

Site 28-Drainage Basin

Water Withdrawal Area

Bulk Bag Staging Areas

Fuel Storage/Containment Area

MOC

Mechanic Shop/Container Storage Area

Over Winter Equipment Staging Area

Roofing Tar Area (Removed in 2011)

Site 31-White Alice Site

Borrow Source

Site 32

Site 34 Upper Camp and Radar Dome Area

Site 27

Site 11

Site 15

Site 10 Buried Drums

Site 13-Power and Heat Building

Site 16

Site 17

Site 21-Wastewater Treatment Tank

Site 19

Site 20

Site 9-Housing and Operations Landfill

Pad 98 Building Foundation (Site 14)

Site 18

Site 26

Site 22

N

W

E

S

0 750 1500

Scale: Feet

Notes:

HTRW	hazardous, toxic, and radioactive waste
MOC	main operations complex
POL	petroleum, oil, and lubricants

Drawing Adapted From Montgomery Watson
File Titled NECAPE.DWG, Date 05 June 2001. Based on Resurvey Performed by ECO-LAND, LLC, July 2009.

Legend

Surface Water

General Site Locations

FIGURE 3
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
PROJECT WORK SITES

DATUM: NAD 83	DATE	02/13/2014
PROJECTION: SP AK Z9 Feet	DWN.	NAP
PROJECT NO. 34140087	SCALE	1" = 1,500'
	APPRVD.	RJ

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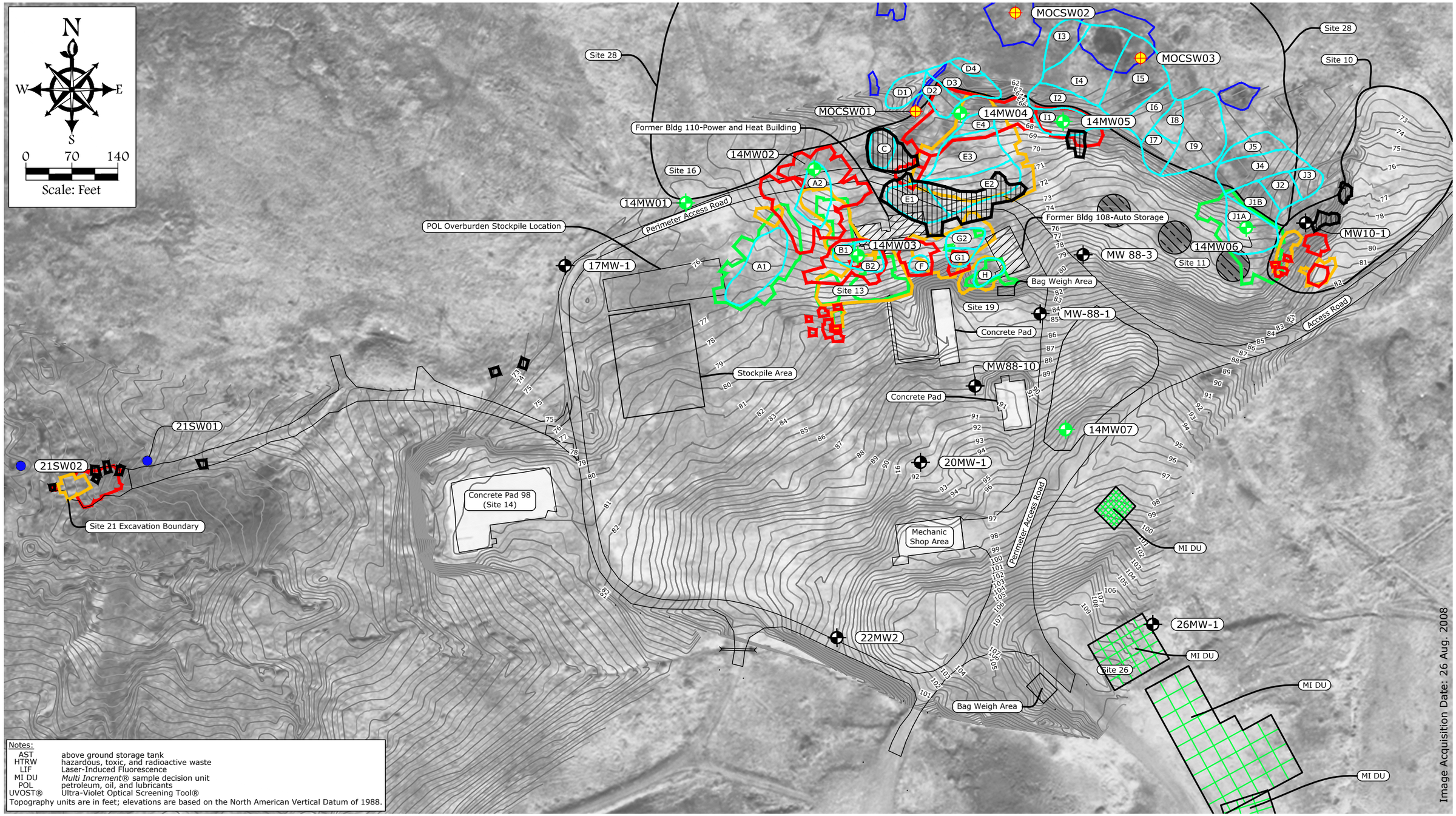

Notes:

AST	above ground storage tank
HTRW	hazardous, toxic, and radioactive waste
LIF	Laser-Induced Fluorescence
MI DU	*Multi Increment*® sample decision unit
POL	petroleum, oil, and lubricants
UVOST®	Ultra-Violet Optical Screening Tool®

Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

Legend

- Surface Water
- 2011 Excavation
- 2012 Excavation
- 2013 Excavation
- 2014 Excavation
- 2010 UVOST LIF Response Boundary
- Former AST Location
- Concrete Pad (Removed 2011)
- Bulk Bag Staging Areas
- A1 Plume Identification
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation
- Site 28 Surface Water Sample Location
- MI Grid
- Site 21 Surface Water Sample Location
- Monitoring Well Installed prior to 2014
- Monitoring Well Installed in 2014

FIGURE 4
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC OVERVIEW

	DATUM: NAD 83	DATE 02/13/2014
	PROJECTION: STATE PLANE AK 9	DWN. NAP
	PROJECT NO. 34140087	SCALE 1" = 150'
		APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE4.DWG - Layout: 11X17
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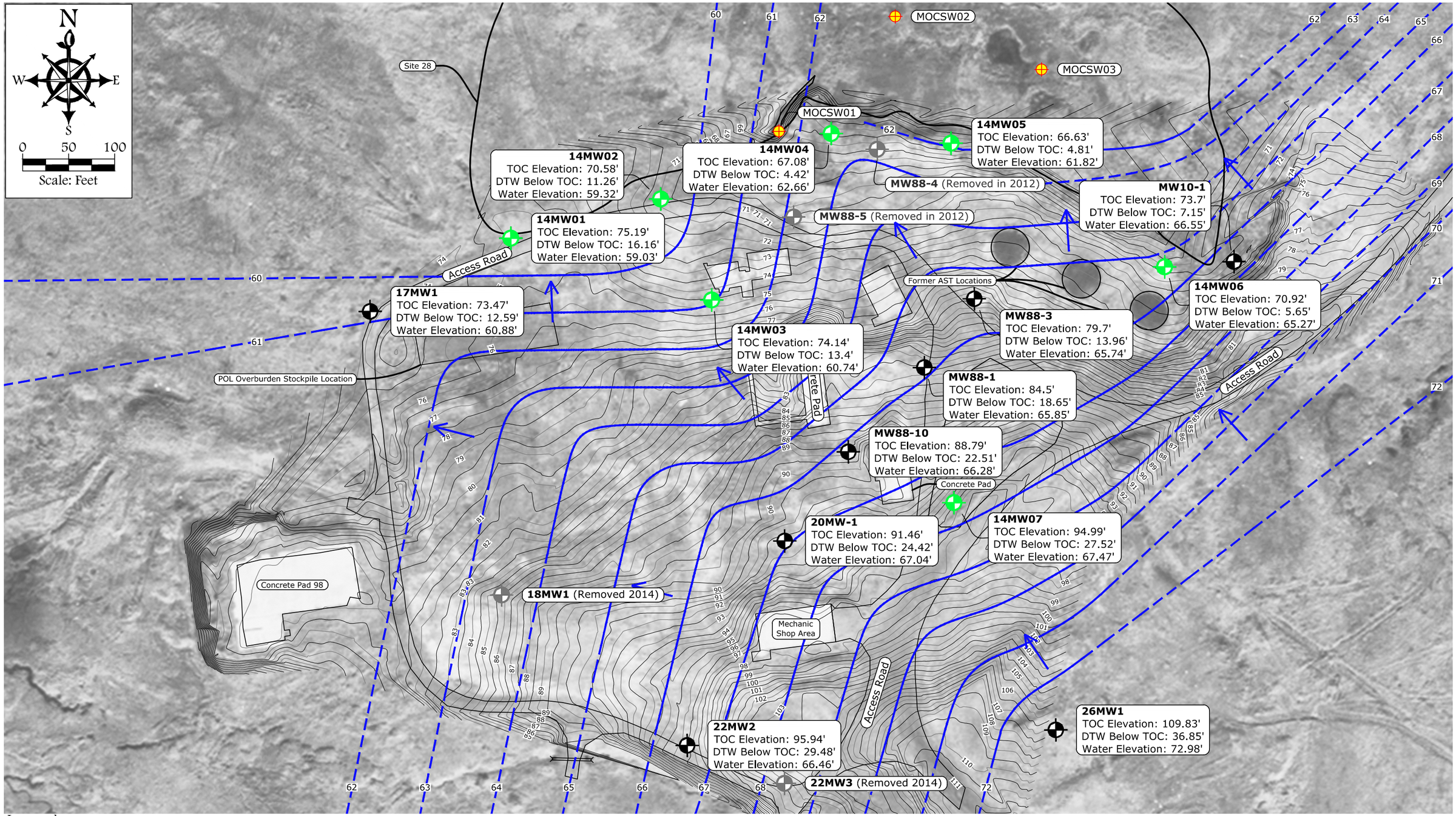

Legend

- Monitoring Well Installed prior to 2014
- Monitoring Well Installed in 2014
- Site 28 Surface Water Sample Location
- Secondary Topographic Contours
- Primary Topographic Contours and Ground Elevation
- Groundwater Flow Direction
- Groundwater Contour (Dashed where inferred)

Notes:

'	foot/feet
AST	aboveground storage tank
DTW	depth to water
HTRW	hazardous, toxic, and radioactive waste
POL	petroleum, oil, and lubricants
TOC	top of casing

Groundwater elevation data was collected on 7/19/2013.
Topo units are in feet, elevations are based on the North American Vertical Datum of 1988.

FIGURE 5
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC POTENTIOMETRIC SURFACE MAP

DATUM: NAD 83
PROJECTION: STATE PLANE AK 9
PROJECT NO. 34140087

DATE 01/23/2015
DWN. NAP
SCALE 1"=100'
APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE5.DWG - Layout: 11X17
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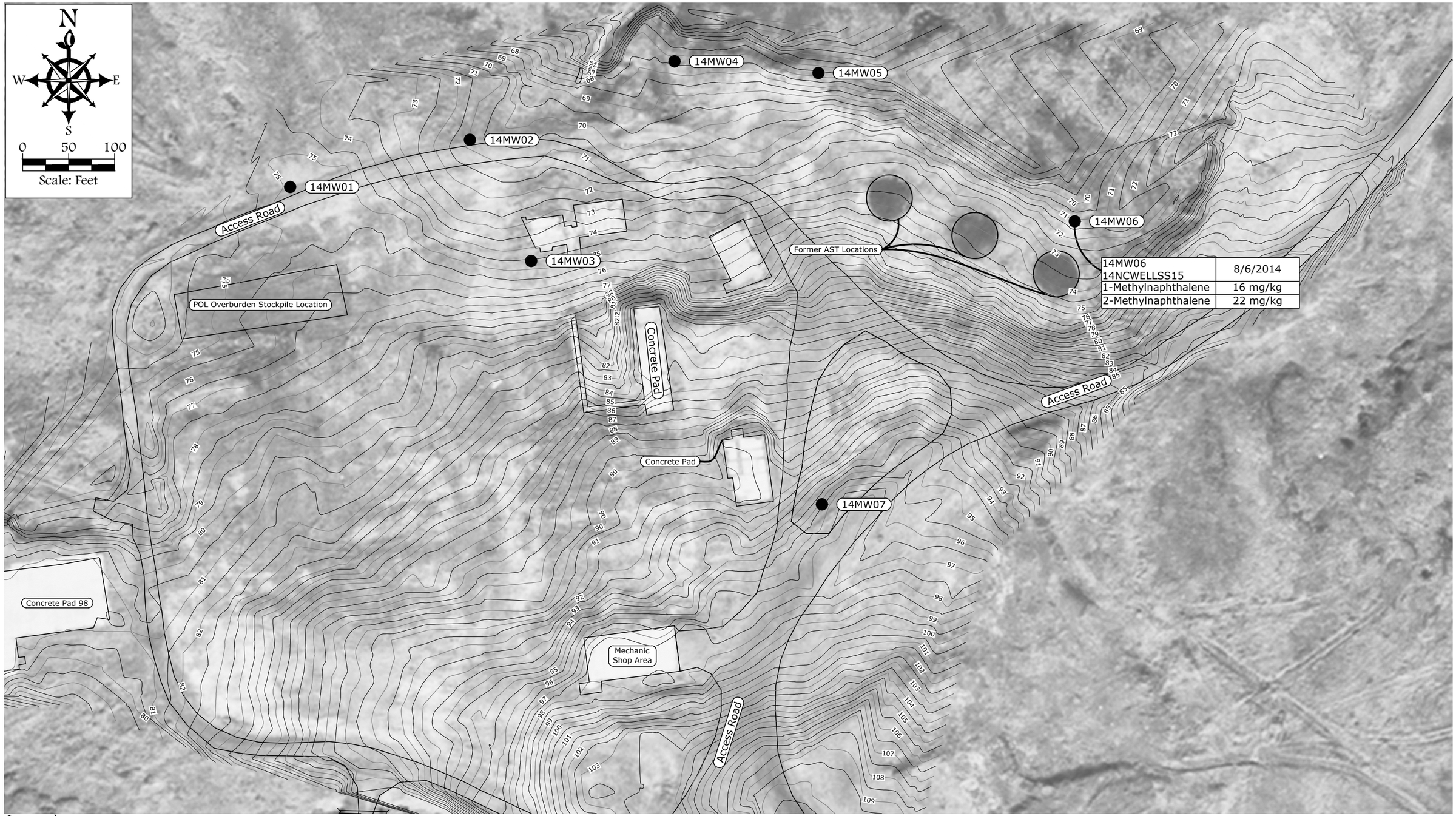

14MW06 14NCWELLSS15	8/6/2014
1-Methylnaphthalene	16 mg/kg
2-Methylnaphthalene	22 mg/kg

Legend

- Soil Boring Sample Location
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

Notes:

mg/kg	millligrams per kilogram
'	foot/feet
AST	aboveground storage tank
HTRW	hazardous, toxic, and radioactive waste
POL	petroleum, oil, and lubricants

Topo units are in feet, elevations are based on the North American Vertical Datum of 1988.

FIGURE 6
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC SOIL BORING LOCATIONS AND SELECT RESULTS

DATUM: NAD 83
PROJECTION: STATE PLANE AK 9
PROJECT NO. 34140087

DATE 01/23/2015
DWN. NAP
SCALE 1"=100'
APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE6.DWG - Layout: 11X17
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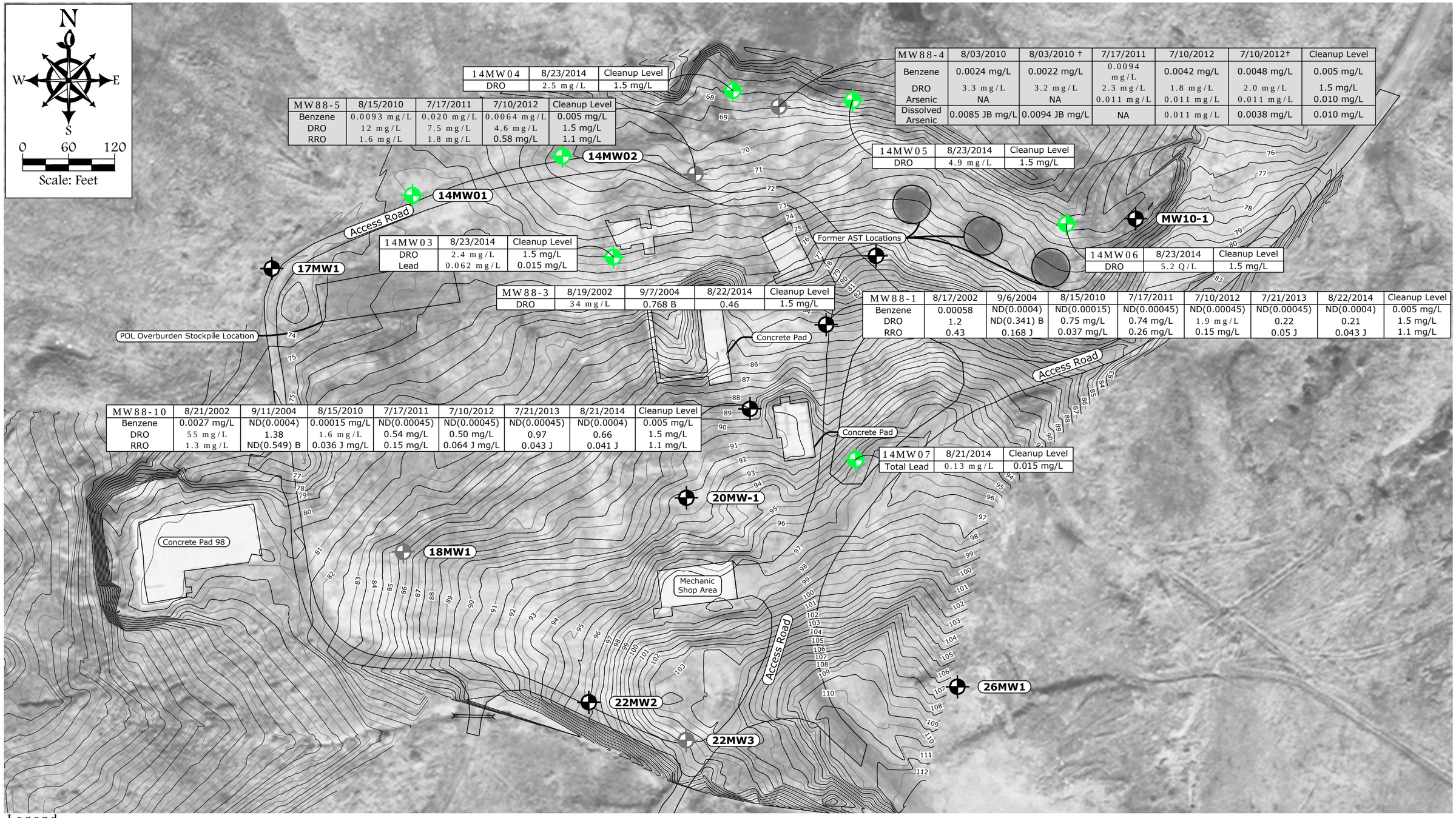


14MW04	8/23/2014	Cleanup Level
DRO	2.5 mg/L	1.5 mg/L

MW88-5	8/15/2010	7/17/2011	7/10/2012	Cleanup Level
Benzene	0.0093 mg/L	0.020 mg/L	0.0064 mg/L	0.005 mg/L
DRO	12 mg/L	7.5 mg/L	4.6 mg/L	1.5 mg/L
RRO	1.6 mg/L	1.8 mg/L	0.58 mg/L	1.1 mg/L

MW88-4	8/03/2010	8/03/2010 †	7/17/2011	7/10/2012	7/10/2012†	Cleanup Level
Benzene	0.0024 mg/L	0.0022 mg/L	0.0094 mg/L	0.0042 mg/L	0.0048 mg/L	0.005 mg/L
DRO	3.3 mg/L	3.2 mg/L	2.3 mg/L	1.8 mg/L	2.0 mg/L	1.5 mg/L
Arsenic	NA	NA	0.011 mg/L	0.011 mg/L	0.011 mg/L	0.010 mg/L
Dissolved Arsenic	0.0085 JB mg/L	0.0094 JB mg/L	NA	0.011 mg/L	0.0038 mg/L	0.010 mg/L

14MW05	8/23/2014	Cleanup Level
DRO	4.9 mg/L	1.5 mg/L

14MW03	8/23/2014	Cleanup Level
DRO	2.4 mg/L	1.5 mg/L
Lead	0.062 mg/L	0.015 mg/L

14MW06	8/23/2014	Cleanup Level
DRO	5.2 Q/L	1.5 mg/L

MW88-3	8/19/2002	9/7/2004	8/22/2014	Cleanup Level
DRO	34 mg/L	0.768 B	0.46	1.5 mg/L

MW88-1	8/17/2002	9/6/2004	8/15/2010	7/17/2011	7/10/2012	7/21/2013	8/22/2014	Cleanup Level
Benzene	0.00058	ND(0.0004)	ND(0.00015)	ND(0.00045)	ND(0.00045)	ND(0.00045)	ND(0.0004)	0.005 mg/L
DRO	1.2	ND(0.341) B	0.75 mg/L	0.74 mg/L	1.9 mg/L	0.22	0.21	1.5 mg/L
RRO	0.43	0.168 J	0.037 mg/L	0.26 mg/L	0.15 mg/L	0.05 J	0.043 J	1.1 mg/L

MW88-10	8/21/2002	9/11/2004	8/15/2010	7/17/2011	7/10/2012	7/21/2013	8/21/2014	Cleanup Level
Benzene	0.0027 mg/L	ND(0.0004)	0.00015 mg/L	ND(0.00045)	ND(0.00045)	ND(0.00045)	ND(0.0004)	0.005 mg/L
DRO	55 mg/L	1.38	1.6 mg/L	0.54 mg/L	0.50 mg/L	0.97	0.66	1.5 mg/L
RRO	1.3 mg/L	ND(0.549) B	0.036 J mg/L	0.15 mg/L	0.064 J mg/L	0.043 J	0.041 J	1.1 mg/L

14MW07	8/21/2014	Cleanup Level
Total Lead	0.13 mg/L	0.015 mg/L

Legend

- Monitoring Well Installed prior to 2014
- Monitoring Well Installed in 2014
- Monitoring Well Location (Abandoned)
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

Notes:

†	duplicate of preceding sample
mg/kg	foot/feet
mg/kg	milligrams per kilogram
AST	aboveground storage tank
HTRW	hazardous, toxic, and radioactive waste
J	laboratory result is an estimate
NA	not analyzed
POL	petroleum, oil, and lubricants
Q/L	laboratory result is an estimate, biased low due to laboratory quality control failure

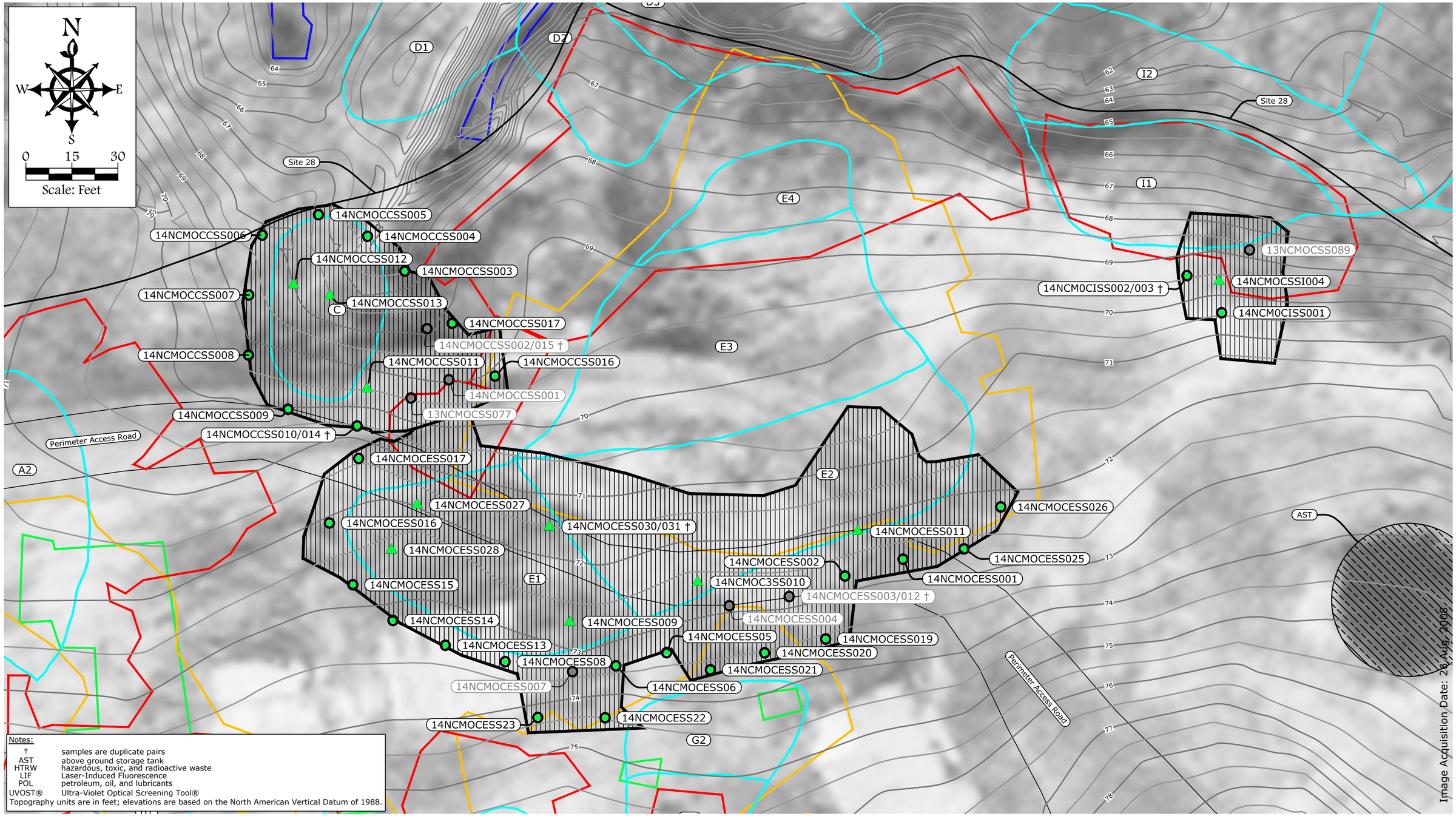
Topo units are in feet, elevations are based on the North American Vertical Datum of 1988.

FIGURE 7
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
MOC MONITORING WELLS INCLUDING 2014 AND SAMPLE RESULTS FROM WELLS THAT HAVE EXCEEDED CLEANUP LEVELS

DATUM: NAD 83
PROJECTION: STATE PLANE AK 9
PROJECT NO. 34140087

DATE 01/23/2015
DWN. NAP
SCALE 1"=120'
APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE7.DWG - Layout: 11X17
User: NPEACOCK Apr 29, 2016 - 12:11pm Xrefs: TOPO-XREF-2014-AS-BUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

†	samples are duplicate pairs
AST	above ground storage tank
HTRW	hazardous, toxic, and radioactive waste
LIF	Laser-Induced Fluorescence
POL	petroleum, oil, and lubricants
UVOST®	Ultra-Violet Optical Screening Tool®

Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

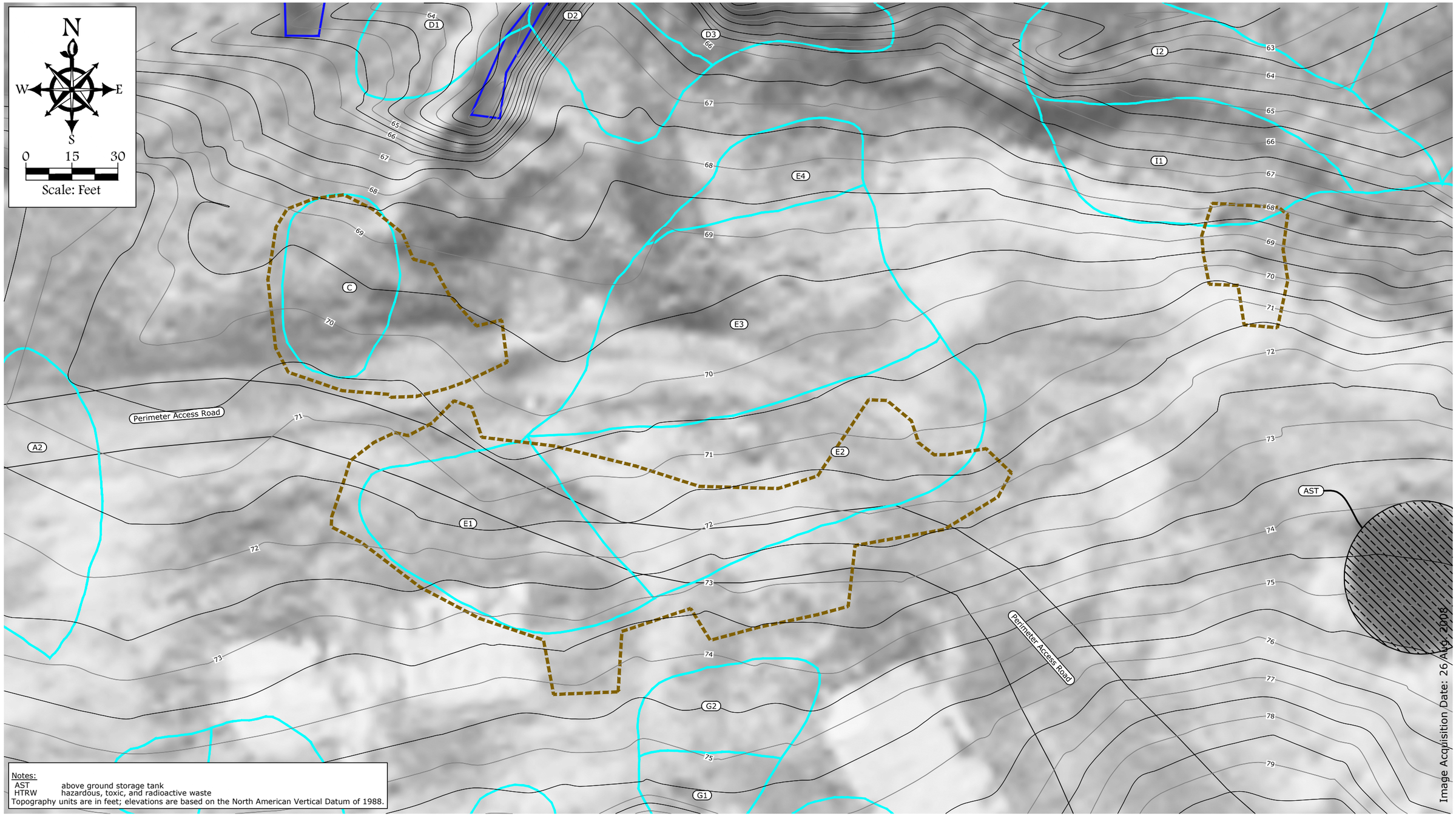
Legend

- Surface Water
- 2011 Excavation
- 2012 Excavation
- 2013 Excavation
- 2014 Excavation
- 2010 UVOST LIF Response Boundary
- Former AST Location
- A1 Plume Identification
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation
- Floor Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level
- Sidewall Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level
- Sidewall Sample Location Where Contaminant Concentrations Exceeded Cleanup Level (Removed In 2014)

FIGURE 8
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC EXCAVATIONS AND SAMPLE RESULTS

DATUM: NAD 83	DATE	01/27/2015
PROJECTION: STATE PLANE AK 9	DWN.	NAP
PROJECT NO. 34140087	SCALE	1" = 30'
	APPRVD.	RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE8.DWG - Layout: 11X17
User: NPEACOCK Apr 29, 2016 - 12:14pm Xrefs: TOPO-XREF-2013-ASBUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:
AST above ground storage tank
HTRW hazardous, toxic, and radioactive waste
Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

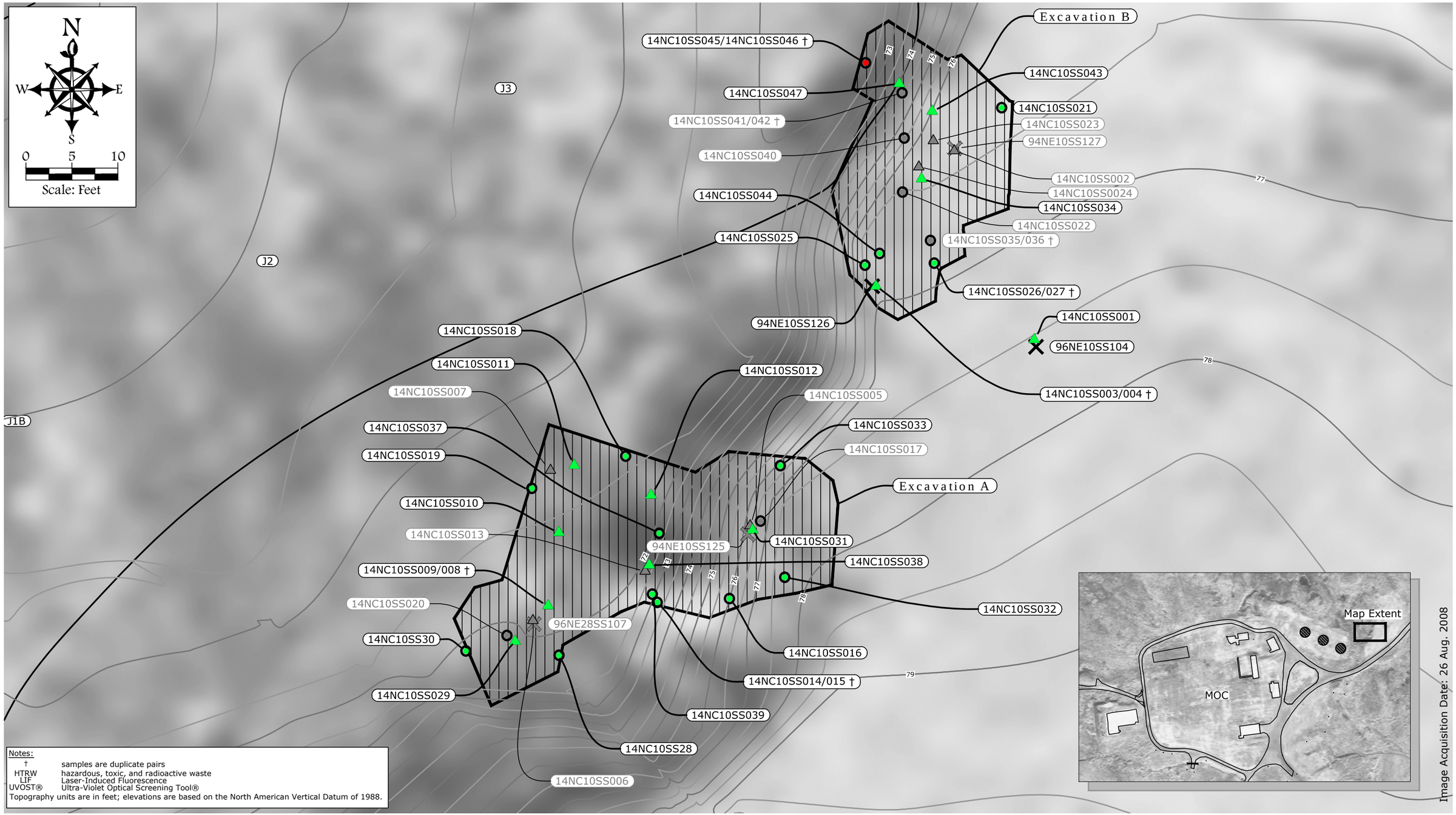
Legend

- Area Of Disturbance (2014)
- Surface Water
- Former AST Location
- Secondary Topographic Contours
- Primary Topographic Contours and Ground Elevation
- 2010 UVOST LIF Response Boundary
- A1 Plume Identification

FIGURE 9
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC FINAL TOPOGRAPHY

DATUM: NAD 83	DATE	01/23/2015
PROJECTION: STATE PLANE AK 9	DWN.	NAP
PROJECT NO. 34140087	SCALE	1" = 30'
	APPRVD.	RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE9.DWG - Layout: 11X17
User: NPEACOCK Apr 20, 2016 - 3:31pm Xrefs: TOPO-XREF-2014-AS-BUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

†	samples are duplicate pairs
HTRW	hazardous, toxic, and radioactive waste
LIF	Laser-Induced Fluorescence
UVOST®	Ultra-Violet Optical Screening Tool®

Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

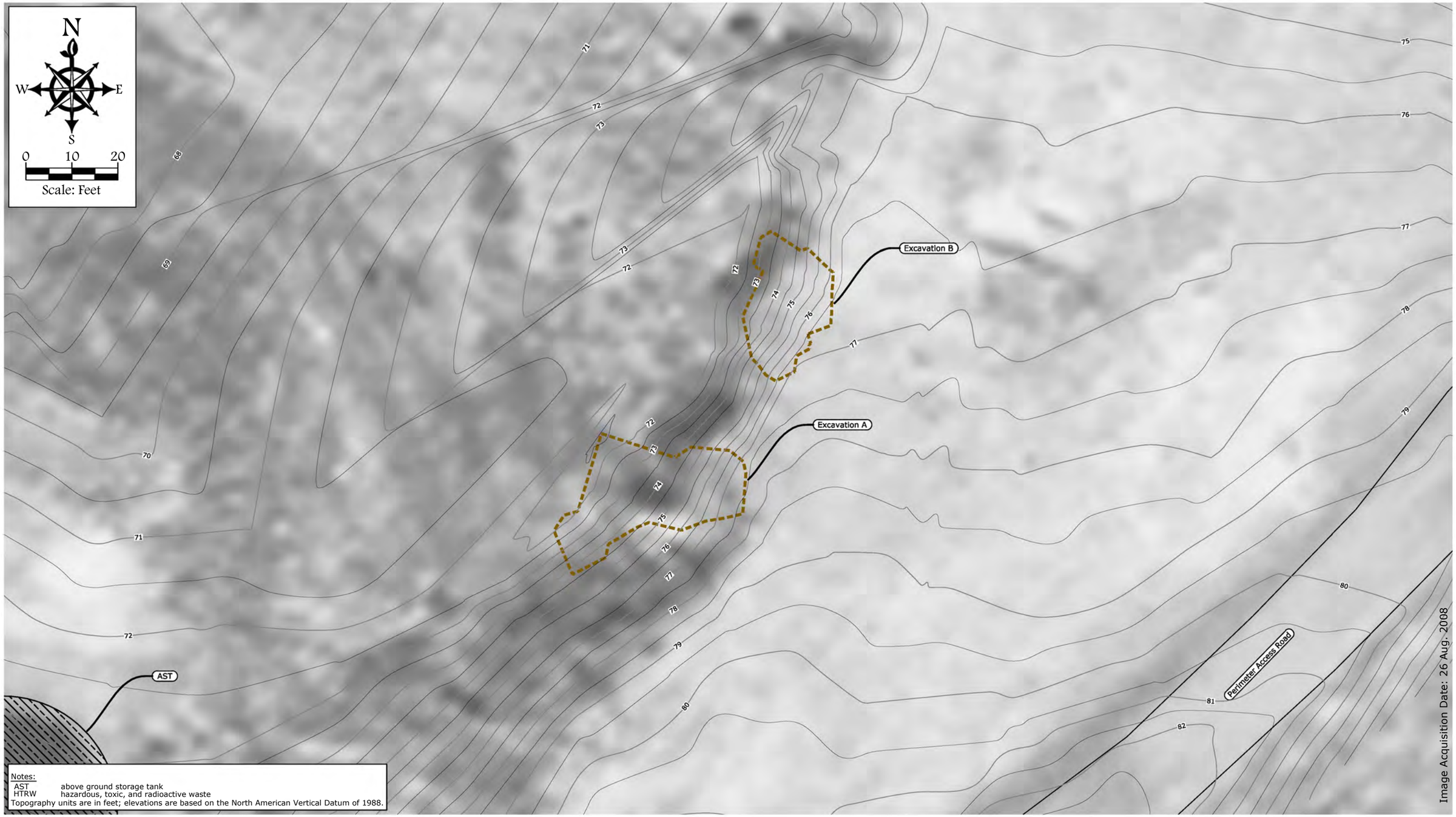
Legend

- 2014 Excavation
- A1 Plume Identification
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation
- Sidewall Sample Location Where Contaminant Concentrations Exceeded Evaluation Criteria (left in place)
- Sidewall Sample Location Where Contaminant Concentrations Exceeded Cleanup Level or Evaluation Criteria (Removed In 2014)
- Sidewall Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level or Evaluation Criteria
- Floor Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level or Evaluation Criteria
- Floor Sample Location Where Contaminant Concentrations Exceeded Cleanup Level or Evaluation Criteria (Removed In 2014)
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level (Removed 2014)

FIGURE 10
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SITE 10 EXCAVATION AREAS AND SAMPLE LOCATIONS

DATUM:	NAD 83
PROJECTION:	STATE PLANE AK 9
PROJECT NO.	34140087
DATE	01/26/2015
DWN.	NAP
SCALE	1" = 10'
APPRVD.	RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE10.DWG - Layout: 11X17
User: NPEACOCK Apr 29, 2016 - 12:17pm Xrefs: TOPO-XREF-2013-ASBUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:
AST above ground storage tank
HTRW hazardous, toxic, and radioactive waste
Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

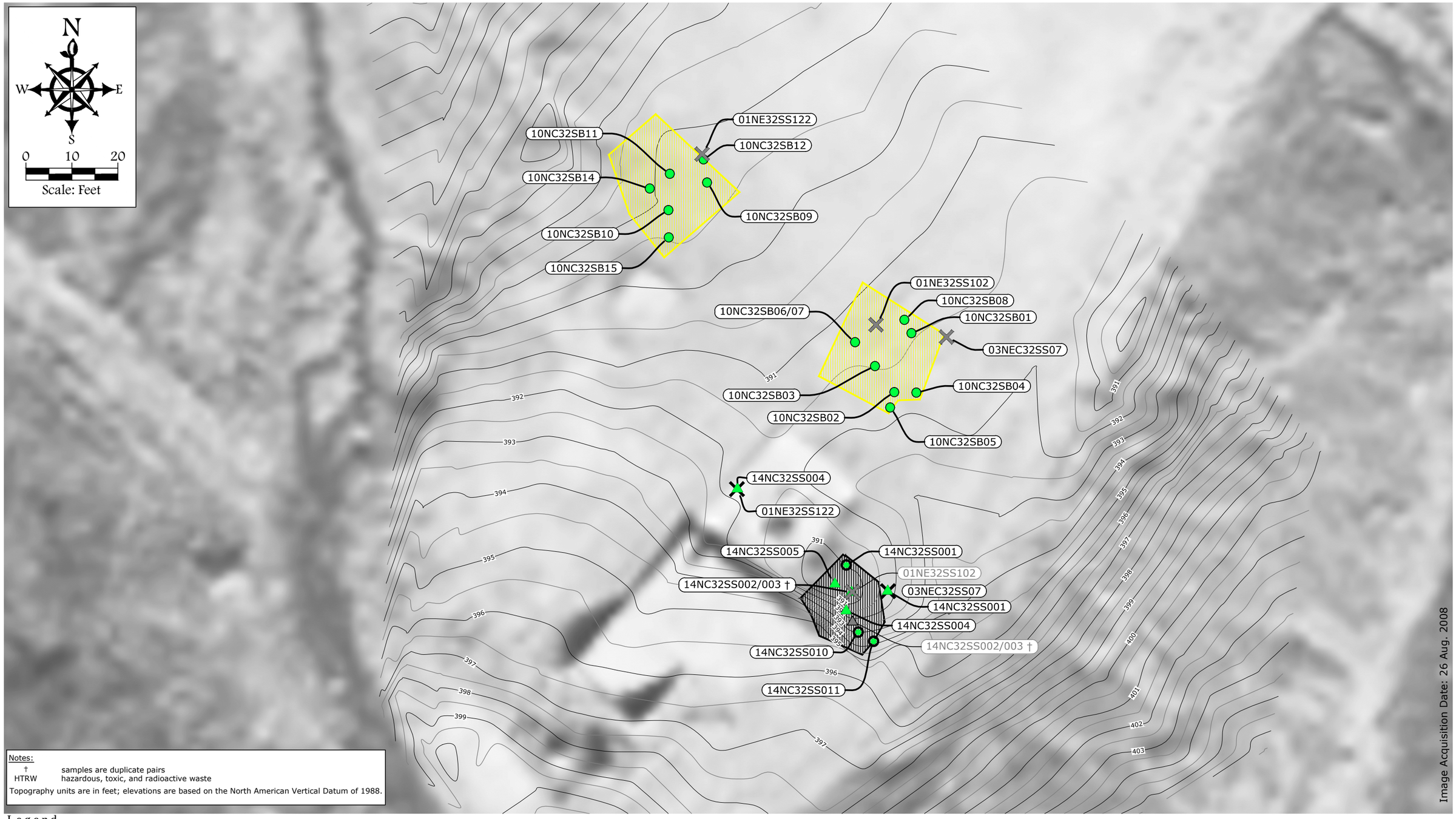
Legend

- Area Of Disturbance (2014)
- Former AST Location
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

FIGURE 11
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
2014 SITE 10 FINAL TOPOGRAPHY

DATUM: NAD 83	DATE 01/26/2015
PROJECTION: STATE PLANE AK 9	DWN. NAP
PROJECT NO. 34140087	SCALE 1" = 20'
	APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE11.DWG - Layout: 11X17
User: NPEACOCK Apr 20, 2016 - 4:03pm Xrefs: TOPO-XREF-2014-AS-BUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

† samples are duplicate pairs

HTRW hazardous, toxic, and radioactive waste

Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

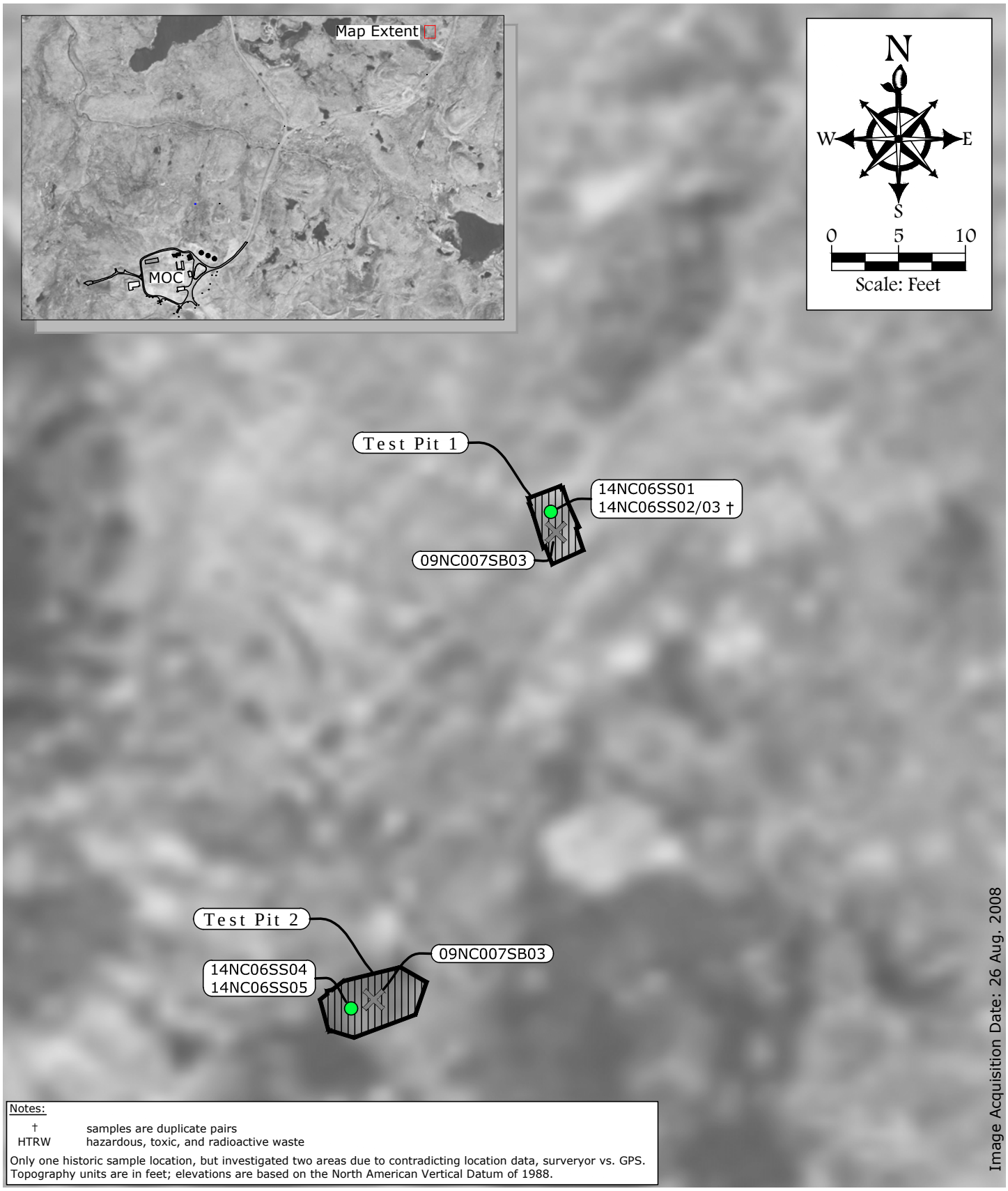
Legend

- 2014 Excavation
- 2010 Excavation
- Sidewall Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level
- Floor Sample Location Where Contaminant Concentrations Did Not Exceed Cleanup Level
- Floor Sample Location Where Contaminant Concentrations Exceeded Cleanup Level (Removed In 2014)
- 2010 Confirmation Sample
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level
- Removed Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level (See first two digits of sample name for removal year)
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

FIGURE 12
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2010 AND 2014 SITE 32 EXCAVATION EXTENTS AND SAMPLE LOCATIONS

	DATUM: NAD 83	DATE 01/26/2015
	PROJECTION: STATE PLANE AK 9	DWN. NAP
	PROJECT NO. 34140087	SCALE 1" = 20'
		APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE12.DWG - Layout: 11X17
User: NPEACOCK Apr 29, 2016 - 12:19pm Xrefs: - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

†	samples are duplicate pairs
HTRW	hazardous, toxic, and radioactive waste

Only one historic sample location, but investigated two areas due to contradicting location data, surveyor vs. GPS.
Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

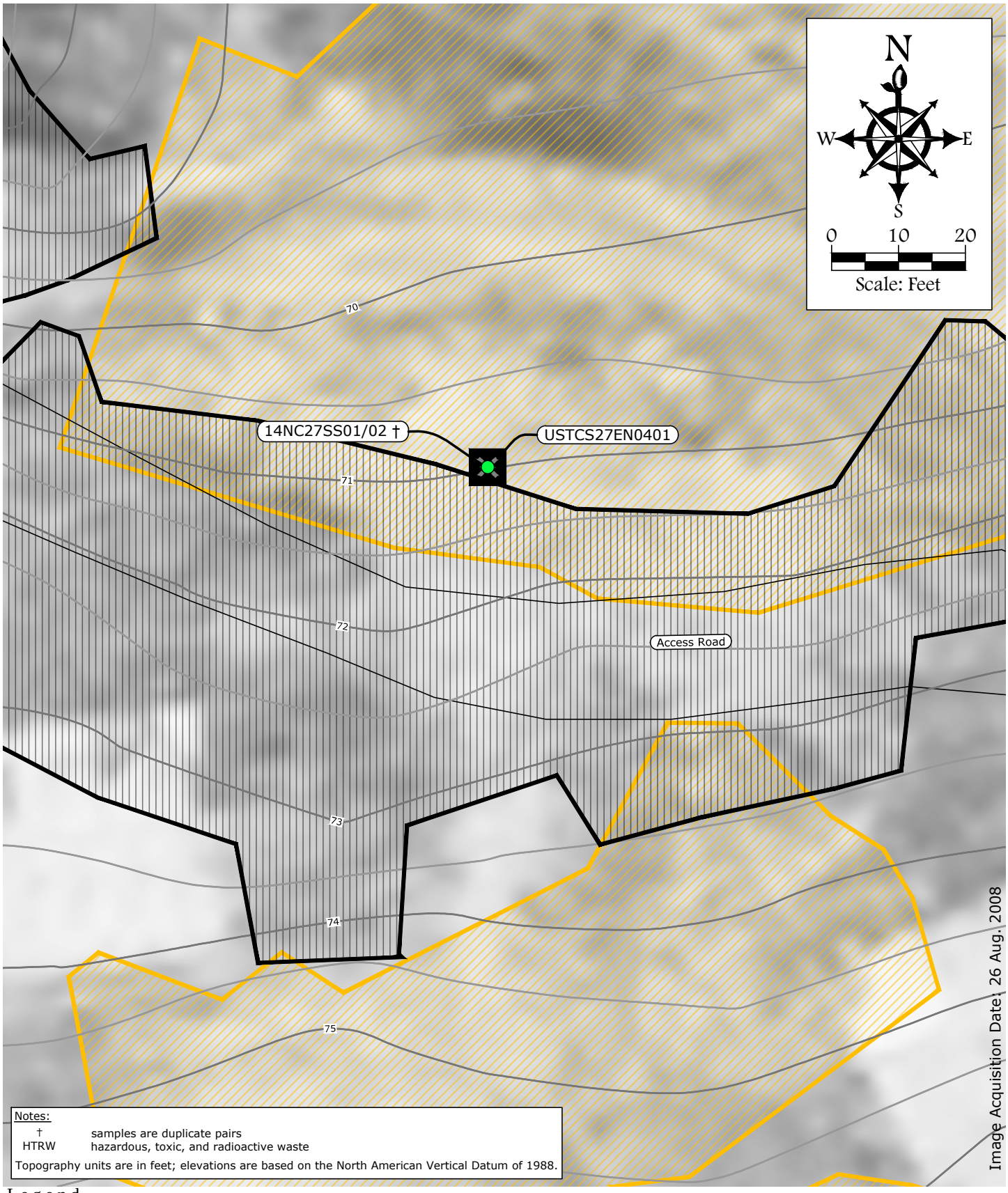
Legend

- Sample Location Where PCB concentrations Did Not Exceed Cleanup Levels
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level
- 2014 Test Pit

FIGURE 13
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SITE 6 TEST PITS AND SAMPLE LOCATIONS

DATUM:	NAD 83
PROJECTION:	STATE PLANE AK 9
PROJECT NO.	34140087
DATE	01/27/2015
DWN.	NAP
SCALE	1" = 50'
APPRVD.	RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE13.DWG - Layout: 11X17
User: NPEACOCK Apr 27, 2016 - 2:19pm Xrefs: TOPO-XREF-2013-ASBUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

† samples are duplicate pairs

HTRW hazardous, toxic, and radioactive waste

Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

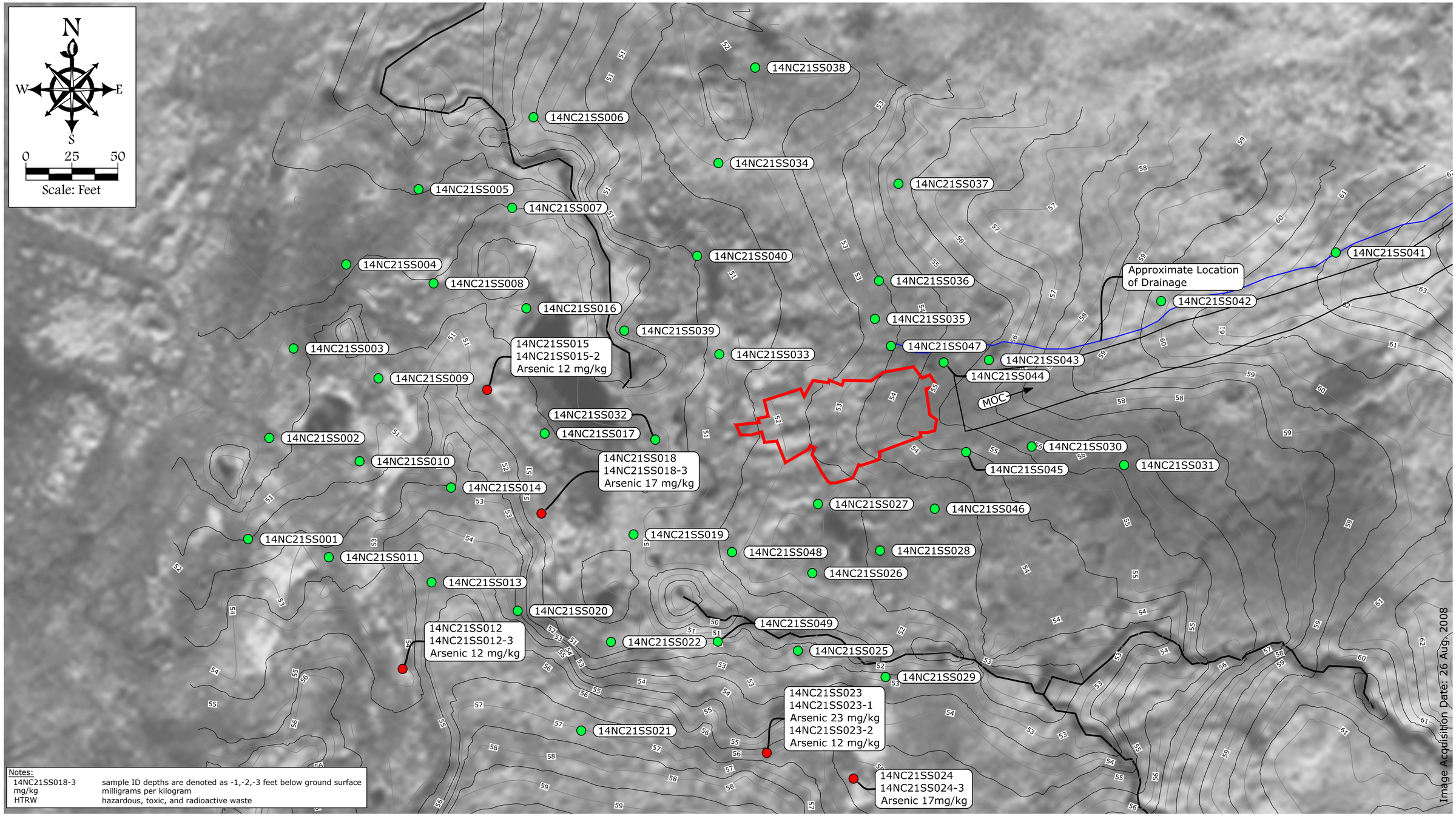
Legend

- Sample Location Where Naphthalene Concentrations Did Not Exceed Cleanup Levels
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level (Re-sampled in 2014)
- 2014 Test Pit
- 2014 Excavation
- 2013 Excavation
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

FIGURE 14
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SITE 27 INVESTIGATION SAMPLE LOCATION

	DATUM: NAD 83	DATE 02/13/2014
	PROJECTION: STATE PLANE AK 9	DWN. NAP
	PROJECT NO. 34140087	SCALE 1" = 20'
		APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE14.DWG - Layout: 11X17
User: NPEACOCK Apr 22, 2016 - 11:44am Xrefs: TOPO-XREF-2013-ASBUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

14NC21SS018-3	sample ID depths are denoted as -1,-2,-3 feet below ground surface
mg/kg	milligrams per kilogram
HTRW	hazardous, toxic, and radioactive waste

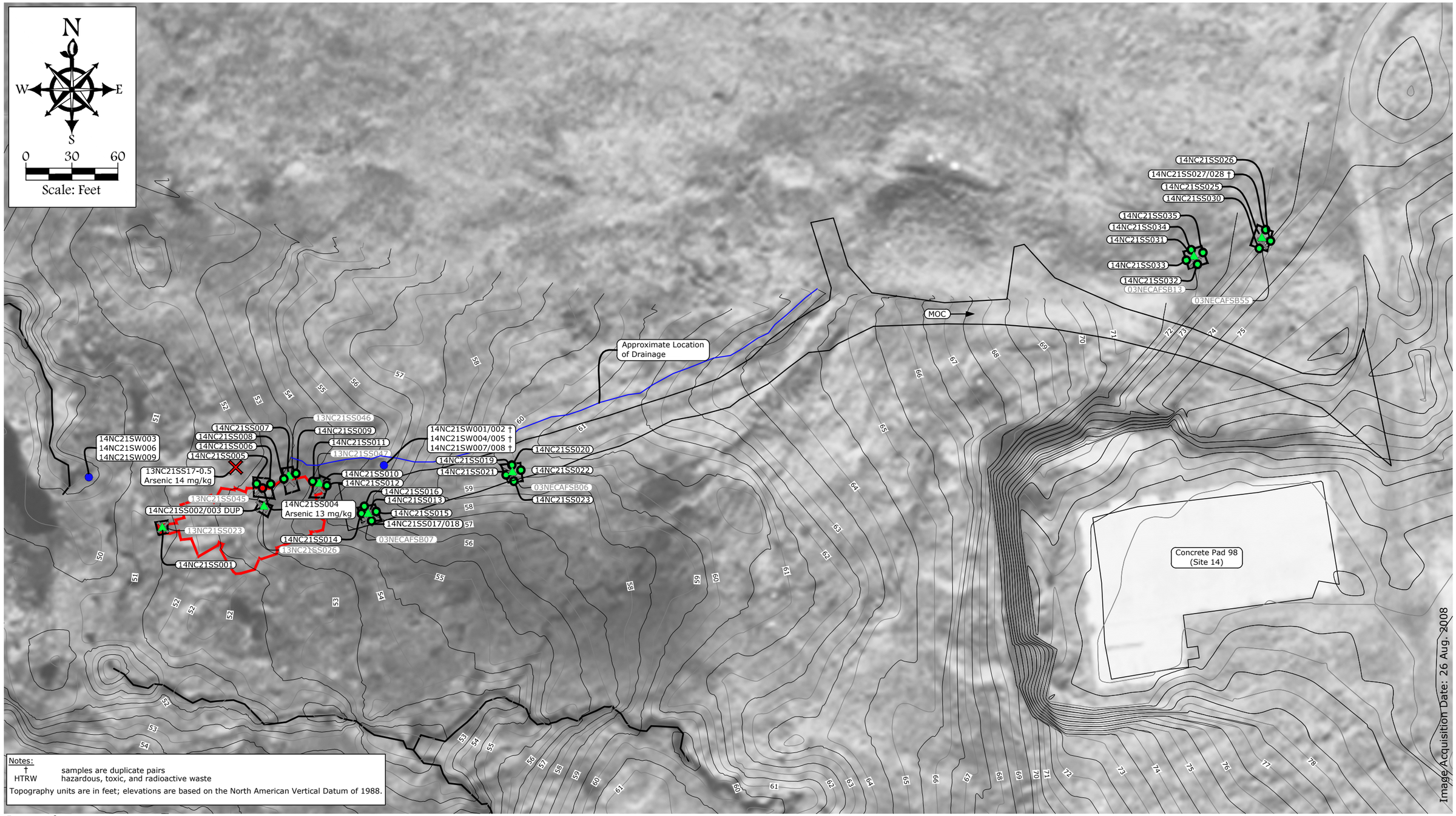
Legend

- Site 21 Historical Excavation Extents
- Soil Boring Location With One Or More Soil Sample Exceeding The Arsenic Cleanup Level of 11 mg/kg
- Soil Boring Location Where Soil Samples Did not Exceed The Arsenic Cleanup Level of 11 mg/kg

FIGURE 15
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SITE 21 SOIL BORING SAMPLE LOCATION RESULTS

	DATUM: NAD 83	DATE 03/30/2015
	PROJECTION: STATE PLANE AK 9	DWN. NAP
	PROJECT NO. 34140087	SCALE 1" = 50'
		APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE15.DWG - Layout: 11X17
User: NPEACOCK Apr 22, 2016 - 12:12pm Xrefs: TOPO-XREF-2013-ASBUILT.DWG TOPO-XREF-2014-AS-BUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:
† samples are duplicate pairs
HTRW hazardous, toxic, and radioactive waste
Topography units are in feet; elevations are based on the North American Vertical Datum of 1988.

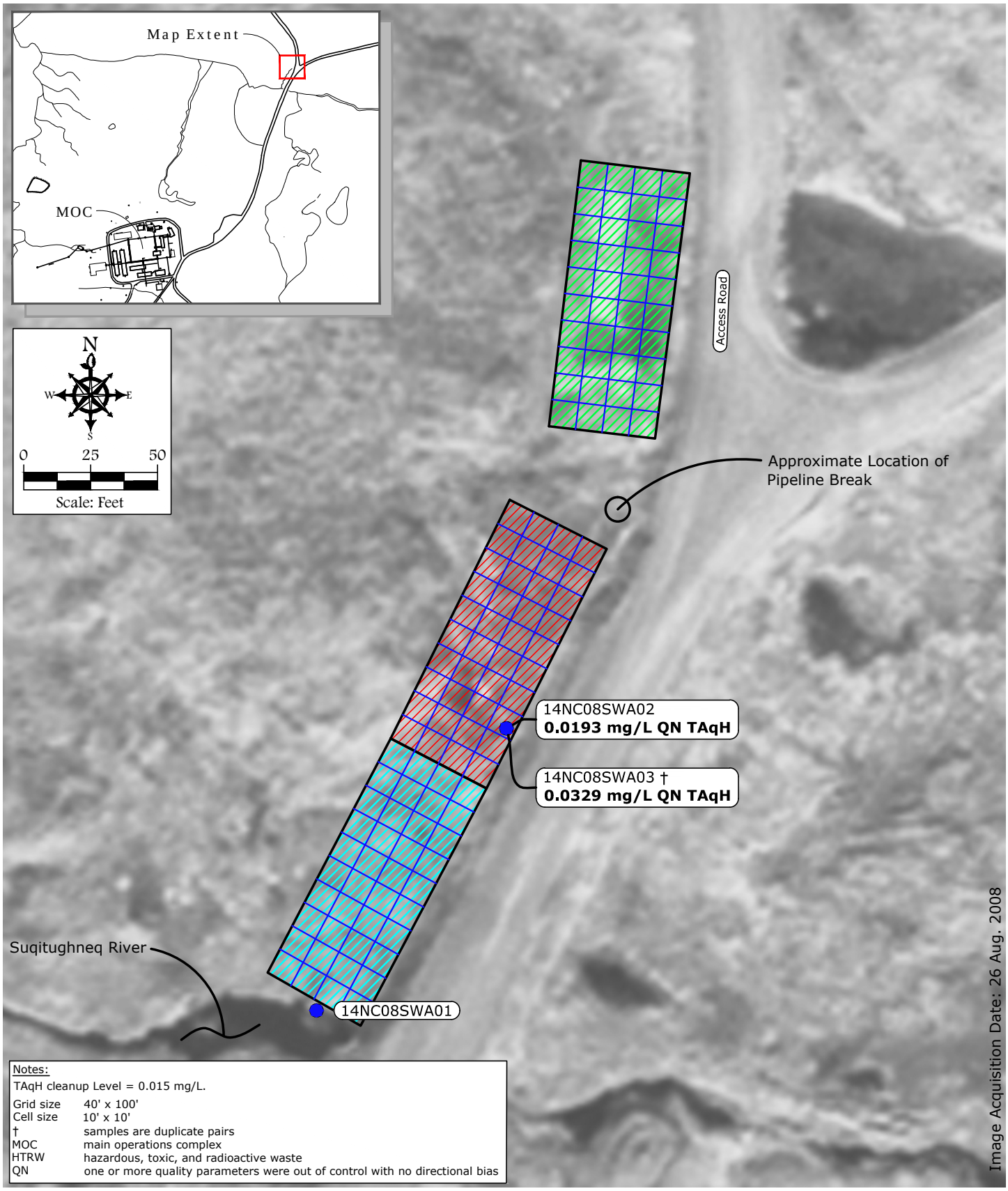
Legend

- Sidewall Sample Location Where Arsenic Concentrations Did Not Exceed Cleanup Level of 11 mg/kg
- Sidewall Sample Location Where Arsenic Exceeded Cleanup Level of 11 mg/kg (Left in place per ADEC approval)
- Floor Sample Location Where Arsenic Concentrations Did Not Exceed Cleanup Level of 11 mg/kg
- Floor Sample Location Where Arsenic Concentrations Exceeded Cleanup Level of 11 mg/kg (Removed In 2014)
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level of 11 mg/kg (Removed 2014)
- Historic Sample Location Where Historic Concentrations Exceeded Cleanup Level of 11 mg/kg (Left in place per ADEC approval)
- Site 21 Surface Water Sample Location
- Site 21 Historical Excavation Extents
- 2014 Excavation Extents
- Secondary Topographic Contours
- 73 Primary Topographic Contours and Ground Elevation

FIGURE 16
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SITE 21 EXCAVATION EXTENTS AND CONFIRMATION SAMPLE RESULTS

	DATUM: NAD 83	DATE 01/26/2015
	PROJECTION: STATE PLANE AK 9	DWN. NAP
	PROJECT NO. 34140087	SCALE 1" = 50'
		APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE16.DWG - Layout: 11X17
User: NPEACOCK Apr 29, 2016 - 12:22pm Xrefs: TOPO-XREF-2014-AS-BUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

TAqH cleanup Level = 0.015 mg/L.

Grid size	40' x 100'
Cell size	10' x 10'
†	samples are duplicate pairs
MOC	main operations complex
HTRW	hazardous, toxic, and radioactive waste
QN	one or more quality parameters were out of control with no directional bias

Legend

- Surface Water Sample
- Upper Decision Unit
- Middle Decision Unit
- Lower Decision Unit
- Cell
- Grid

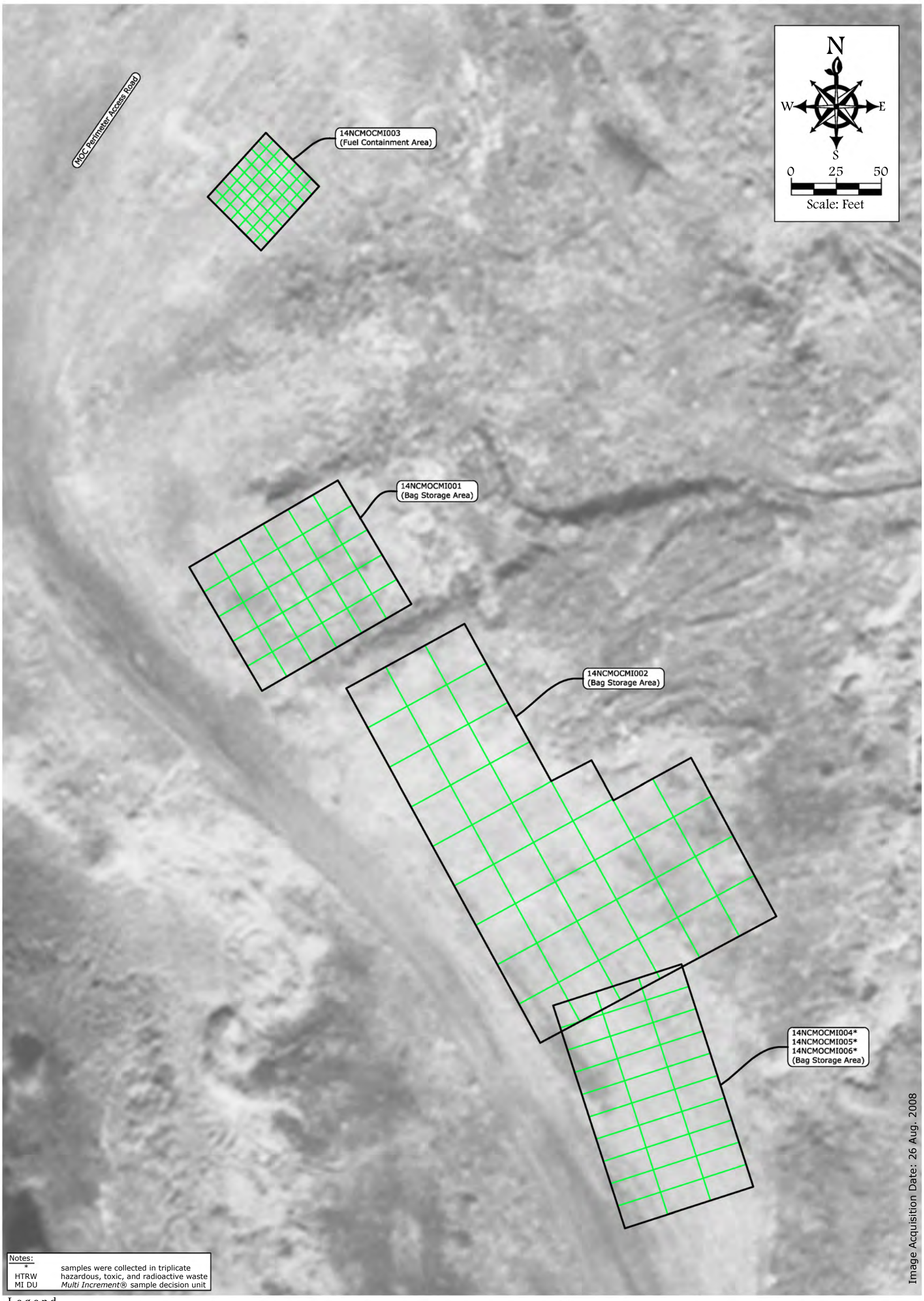
FIGURE 17
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 SURFACE WATER SAMPLE LOCATION
EXCEEDANCES AND RESULTS FROM SITE 8

DATUM: NAD 83
PROJECTION: STATE PLANE AK 9
PROJECT NO. 34140087

DATE 01/27/2015
DWN. NAP
SCALE 1" = 50'
APPRVD. RJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE17.DWG - Layout: 11X17
User: NPEACOCK Apr 22, 2016 - 12:37pm Xrefs: TOPO-XREF-2013-ASBUILT.DWG - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE18.DWG - Layout: 11X17
User: NPEACOCK Apr 22, 2016 - 12:38pm Xrefs: - Images: EASTCAPE-STLAWRENCE_ORTHO_MOSAIC_AK83-9F.TIF



Notes:

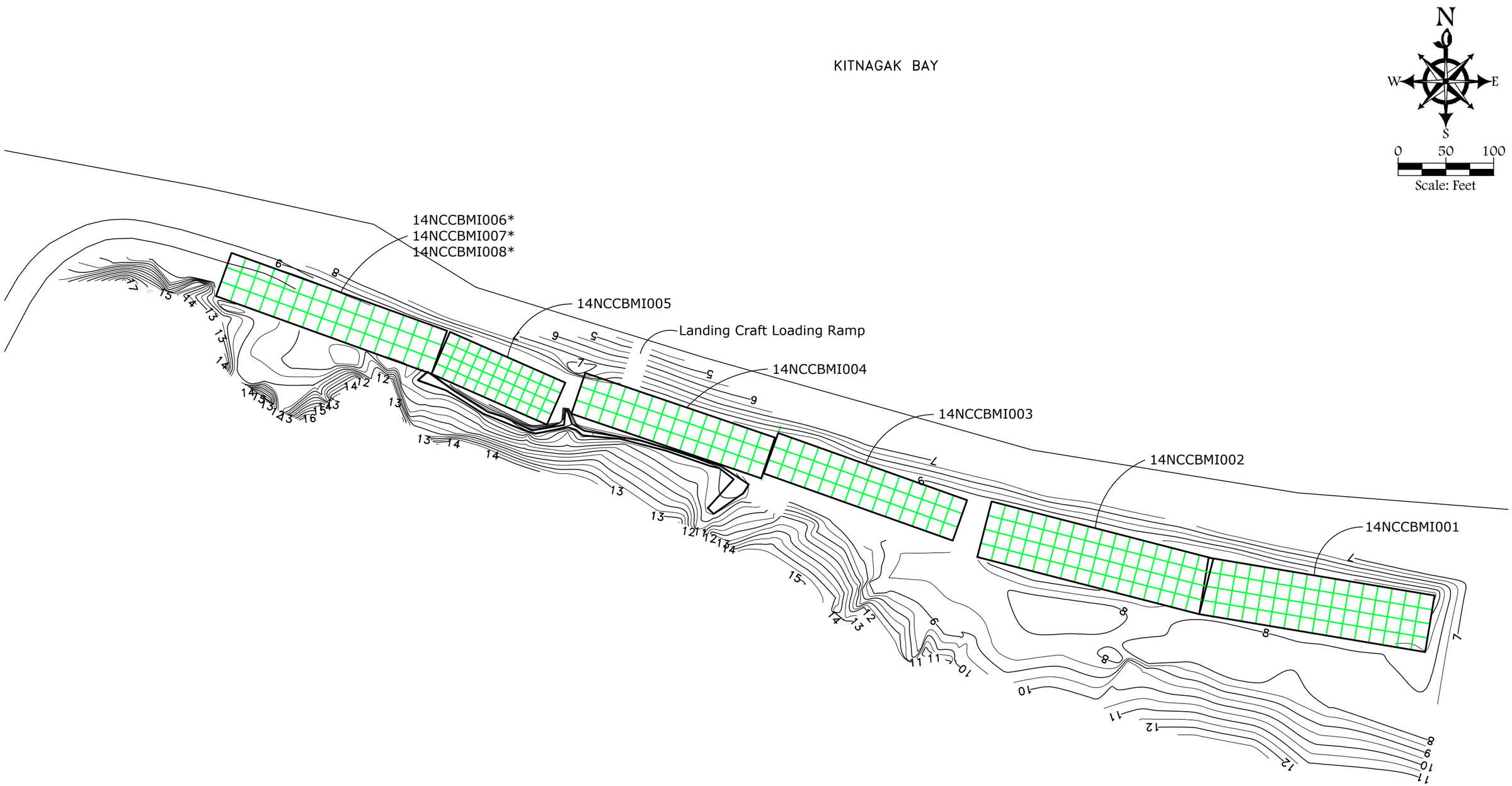
*	samples were collected in triplicate
HTRW	hazardous, toxic, and radioactive waste
MI DU	*Multi Increment*® sample decision unit

Legend

MI DU Grid

FIGURE 18
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 MOC MI SAMPLING AREAS

DATUM: NAD 83	DATE	01/26/2015
PROJECTION: STATE PLANE AK 9	DWN.	NAP
PROJECT NO. 34140087	SCALE	1" = 50'
	APPRVD.	RJ



Legend

MI *MULTI INCREMENT®*

MI Decision Unit

Notes:

1. Drawing adapted from Montgomery Watson file titled NECAPE.DWG, Date 05 June 2001. Based on resurvey performed by ECO-LAND, LLC, July 2009
2. Topo units are in feet, elevations are based on the North Vertical Datum of 1988.

* samples were collected in triplicate

FIGURE 19
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
NORTHEAST CAPE HTRW REMEDIAL ACTIONS
2014 CARGO BEACH MI SAMPLING AREAS

DATUM: NAD 83	DATE	12/19/12
PROJECTION: STATE PLANE AK 9	DWN.	MTG
PROJECT NO. 34120057	SCALE	1"=100'
	APPRVD.	GJ

Drawing: C:\USERS\NPEACOCK\DESKTOP\2014 NORTHEAST CAPE HTRW\DWGS\FIGURE19.DWG - Layout: FIG7
User: NPEACOCK Apr 22, 2016 - 12:39pm Xrefs: - Images:

APPENDIX A

Correspondence and Comments

James, Russell

From: Palmer, Valerie Y POA <Valerie.Y.Palmer@usace.army.mil>
Sent: Friday, June 06, 2014 6:45 AM
To: James, Russell
Cc: Craner, Jeremy POA; Broyles, Ronald S POA
Subject: FW: ADEC approval of the 2014 NEC Initial Site 21 June 9-13 Soil Sampling Plan (UNCLASSIFIED)
Attachments: 475.38.013 NEC draft14 RA WP adec com Site 21 june sampl -14.docx

Classification: UNCLASSIFIED
Caveats: NONE

Good morning Russell,

ADEC has approved next week's Site 21 sampling event. Hope you have great weather and that everything goes smoothly. Safe travels.

Thanks,
Valerie

-----Original Message-----
From: Dunkin, Curtis S (DEC) [mailto:curtis.dunkin@alaska.gov]
Sent: Thursday, June 05, 2014 5:16 PM
To: Palmer, Valerie Y POA
Cc: Geist, Lisa K POA; Shewman, Aaron F POA; Craner, Jeremy POA
Subject: [EXTERNAL] ADEC approval of the 2014 NEC Initial Site 21 June 9-13 Soil Sampling Plan

Valerie, all, thank you for yesterday's teleconference to discuss the planned initial soil sampling at Site 21. Thank you also for providing the revised figure depicting the historical as well as the agreed upon June 2014 sampling locations. This email serves as ADEC's approval for the Corps to implement the portions of the draft 2014 work plan which are specific to the planned site 21 sampling event the week of June 9, 2014; per your summary email below of yesterday's planning teleconference, and ADEC's general comments (attached) having been adequately addressed. I will follow this email up with a formal approval letter to the Corps. Please inform ADEC prior to implementing any changes to the current plan, and contact me anytime if you have questions.
best regards
Curtis Dunkin
Environmental Program Specialist
ADEC Contaminated Sites Program
555 Cordova Street
Anchorage, AK 99501
Phone: 907-269-3053

-----Original Message-----
From: Palmer, Valerie Y POA [mailto:Valerie.Y.Palmer@usace.army.mil]
Sent: Thursday, June 05, 2014 8:49 AM
To: Dunkin, Curtis S (DEC)
Subject: NE Cape Site 21 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Good morning Curtis,

The attached Site 21 figure includes the suggested revisions from yesterday's teleconference. Please note the reference to "2014 Alternate Boring Location" will be removed from the legend.

As discussed, Bristol plans to mobilize to NE Cape on 9 June to conduct the arsenic sampling at Site 21. The approach and methods will be the same as what's in the 2014 draft Work Plan, which is also the same as the approved 2013 Work Plan. The proposed boring locations will be loaded to a GPS for easy locations in the field. The USACE QAR will accompany Bristol on 9 June to confirm the boring locations are placed as planned. If proposed locations are not conducive to obtaining samples as planned an adjacent alternate location will be used. Bristol will sample at 1, 2, and 3 foot intervals at each boring location. A hand auger is the preferred tool, but an excavator and hand shovels will be available if needed. The sampling event is expected to last approximately 5-7 days. Samples will be sent to a fixed laboratory for a quick turn-around. Sample results and an accompanying figure will be provided once available.

Please let me know if you have any questions.

Thank you,
Valerie Palmer
Project Manager
U.S. Army Corps of Engineers, Alaska District
907-753-2578 (ph)
907-753-2829 (fax)
valerie.y.palmer@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: Dunkin, Curtis S (DEC)
To: Geist, Lisa K POA; Palmer, Valerie Y POA
Cc: Shewman, Aaron F POA; Craner, Jeremy POA
Subject: [EXTERNAL] RE: Monitoring well installation at NE Cape (UNCLASSIFIED)
Date: Tuesday, August 05, 2014 9:23:26 AM

Lisa, thank for the further clarifications, all of which are acceptable to ADEC. This email serves as ADEC's tentative approval to conduct the MOC MW installation, soil sampling, well reconditioning, and sampling work. I will get back with the project team re: site 21 today asap. Please contact me if you have any questions.

_____

From: Geist, Lisa K POA [Lisa.K.Geist@usace.army.mil]
Sent: Monday, August 04, 2014 10:32 AM
To: Dunkin, Curtis S (DEC); Palmer, Valerie Y POA
Cc: Shewman, Aaron F POA; Craner, Jeremy POA
Subject: RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Curtis -

Regarding the MW installation sampling. The field geologist plans to use a PID and visual/olfactory indicators in order to determine if an additional level of contamination is present other than what is planned. If an additional level is found, then a sample will be collected. Since the MOC was contaminated with hydrocarbons, this determination should be simple and straightforward while logging the cores.

We are ready to proceed with the additional 9 borings at Site 21. Please let me know if you need further clarifications.

Thank you.
--Lisa

-----Original Message-----
From: Dunkin, Curtis S (DEC) [mailto:curtis.dunkin@alaska.gov]
Sent: Monday, August 04, 2014 9:03 AM
To: Geist, Lisa K POA; Palmer, Valerie Y POA
Cc: Shewman, Aaron F POA; Craner, Jeremy POA
Subject: [EXTERNAL] RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Lisa, thank you for the RTCs. I will be out of the office today due to a family emergency but will be checking emails regularly throughout the day.
The RTCs specifically to the MOC MW installation are all acceptable with the exception to clarification to RTC#1. Could you please provide clarification regarding the criteria that will be used to evaluate/determine if there are multiple levels of contamination that would trigger additional sampling? It seems to me that unless soil screening samples from intervals within each boring are submitted to the field lab then it will be difficult to field screen/evaluate 'level's of contamination; thus ADEC's request to collect three samples per boring as requested in #1.

I will review the site 21 info in more detail later today; and will check emails regularly today so that we can finalize and approve the MOC MW work. Thanks again.

_____

From: Geist, Lisa K POA [Lisa.K.Geist@usace.army.mil]
Sent: Friday, August 01, 2014 3:45 PM

To: Dunkin, Curtis S (DEC); Palmer, Valerie Y POA
Cc: Shewman, Aaron F POA; Craner, Jeremy POA
Subject: RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Curtis,

Thanks for your comments on the MW installation. Hopefully our responses below clarify the technical basis for our plans.

1) In Plumes E3 and I1, one sample will be collected from the most impacted interval or, if no indication of contamination is present, from the mid-point of the backfill and one sample will be collected from the bottom of the boring. Outside the plumes, one sample will be collected from the groundwater interface and one sample will be collected from the bottom of the boring. If something different that what expected is encountered (i.e., multiple levels of contamination are found) then additional sampling will occur.

2) The integrity of well MW88-3 is very poor and has not been included in the historic monitoring well network. After 2014, we will have wells both up gradient and downgradient of this location.

3) Only the mechanical characteristics/physical condition of the wells.

4) This has already been done and additional info from 2014 will be reported in the 2014 RA Report.

Site 21:
The depth of the sample results from 2014 (red/white symbols with yellow highlighting) is shown after the dash in the sample number (i.e., -1 from 1 foot interval, -2 from 2 feet, -3 from 3 feet).

The other historic exceedances (solid orange or red symbols with yellow highlighting) do not have depth information shown on the figure.

Thank you.
--Lisa

-----Original Message-----
From: Dunkin, Curtis S (DEC) [mailto:curtis.dunkin@alaska.gov]
Sent: Thursday, July 31, 2014 6:13 PM
To: Palmer, Valerie Y POA
Cc: Shewman, Aaron F POA; Geist, Lisa K POA
Subject: [EXTERNAL] RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Valerie, please see ADEC's additional comments re: the MW installation at the MOC below. The remainder of my comments associated with soil boring and MW installation at the MOC which are not included in this email are more for clarification purposes and can be addressed when finalizing the work plan document. When I get all of my comments compiled I will include the comments like the ones below which I've already sent to you and notate the date submitted. Also, as noted in my previous email, ADEC concurs with the proposed 7 new locations for soil borings to be completed as groundwater monitoring wells as depicted in the attached figure 7 which you provided via email yesterday.

Re: site 21, I will get back with you, Aaron and Lisa by Monday and the revised figure 1 you forwarded via email yesterday. I generally agree with what appears to be the 9 remaining soil boring locations which are proposed/depicted on the figure however have some questions and thing this is worthy of a short call to clarify. Is there a Chemical Data Quality Report available for the site 21 sampling and is there specific depth information where the exceedances were observed?

Please contact me if you have any questions.

MOC Soil Boring and MW Installation Comments:

1) Section 4.4, page 42: Per ADEC's request in my email below for the Corps to consider an additional soil sample from each soil boring, ADEC requests that a minimum of three soil samples be collected for laboratory analysis be collected from within each soil boring to be completed as a new groundwater monitoring well. The three sample intervals should include 1) somewhere within the soil profile above the groundwater interface where visual, olfactory and/or headspace screening indicate the most impacted interval as well as 2) the proposed soil-groundwater interface and 3) from the bottom of the boring. This should be reconciled in both the narrative and QAPP of the work plan since references to the E3 and I1 plumes state 'and/or' which actually insinuates that three samples would/could be collected, although other sections state that only two samples will be collected.

2) Section 4.6, page 44: What is the rationale for decommissioning MW88-3 since this well is within close proximity and/or downgradient of known soil and groundwater plumes which have been previously identified, removed, or left in place?

3) Section 4.7, Table 4-3: Does the column header 'integrity' refer only to the mechanical characteristics/physical condition/serviceability of the wells and/or does it also evaluate the efficacy of the well to provide adequate and useable groundwater samples?

4) Section 4.7, page 45: The seven existing groundwater monitoring wells which are proposed for reconditioning should also be evaluated in the field as well as historical field observations as to whether or not the existing well locations, screened depths, etc. are adequate and representative for continuing to use them for the purpose of monitoring natural attenuation at the MOC. This evaluation should be included in the 2014 RA report.

5) QAPP Worksheet #15, tables 15-1 through 15-3: Table notes should be included that further clarify that although the 2009 DD does not state a specific cleanup level for the specific contaminants, that at a minimum, unless otherwise specifically stated in the DD, that the maximum allowable concentration applies, both for contaminants and matrices associated with both soil and groundwater in 18 AAC75 and water in 18AAC70. Please note that table 15-3 appears to actually be related to surface water and not sediment and/or the units and cleanup levels require revision.

Curtis Dunkin
Environmental Program Specialist
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555 Cordova Street
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Phone: 907-269-3053

-----Original Message-----
From: Dunkin, Curtis S (DEC)
Sent: Thursday, July 31, 2014 4:45 PM
To: 'Palmer, Valerie Y POA'
Cc: 'Shewman, Aaron F POA'; 'Geist, Lisa K POA'
Subject: RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Valerie, I do have some minor comments and am still completing review and will email those to you asap but will either be later this afternoon or first thing tom. morning. I agree with the proposed MW locations and most of the original SAP in the draft work plan and do not have any major comments that would hold up the field work schedule - mostly clarification.

One outstanding issue would be for the Corps to consider collecting a soil sample at another interval within the soil boring to be completed as a monitoring well, along with the proposed two samples at and below the water table. Even if this material is expected or known to be below cleanup level this would be supportive data to have as I see this question coming up in the end game.

Curtis Dunkin

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-----Original Message-----
From: Dunkin, Curtis S (DEC)
Sent: Thursday, July 31, 2014 11:52 AM
To: 'Palmer, Valerie Y POA'
Cc: Shewman, Aaron F POA; Geist, Lisa K POA
Subject: RE: Monitoring well installation at NE Cape (UNCLASSIFIED)

Valerie, thank you for forwarding the recent figures, CDQRs and updates for NEC. I am reviewing and will get back with the team later today.

Curtis Dunkin
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-----Original Message-----
From: Palmer, Valerie Y POA [mailto:Valerie.Y.Palmer@usace.army.mil]
Sent: Wednesday, July 30, 2014 4:01 PM
To: Dunkin, Curtis S (DEC)
Cc: Shewman, Aaron F POA; Geist, Lisa K POA
Subject: Monitoring well installation at NE Cape (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi again Curtis,

One more e-mail for today... The attached figure has been updated from the one in the draft work plan. The difference is the addition of one more well (for a total of 7 to be installed). The drillers will arrive at NE Cape Friday and installation is expected to begin later that day or Saturday. If you have any comments on the well locations please send them to Aaron Shewman, Lisa Geist and me by close of business tomorrow. I will be out of the office Friday and only checking e-mail occasionally next week.

Thank you,
Valerie Palmer
Project Manager
U.S. Army Corps of Engineers, Alaska District
907-753-2578 (ph)
907-753-2829 (fax)
valerie.y.palmer@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

From: Dunkin, Curtis S (DEC)
To: Palmer, Valerie Y POA
Subject: [EXTERNAL] RE: NEC 2014 RA Work Plan (UNCLASSIFIED)
Date: Wednesday, August 13, 2014 6:18:17 PM

Valerie, thank you for providing the detailed information in response to my inquiries for sites 10, 27, and 32. I failed to also include the site 6 sampling in my inquiry in conjunction with sites 10, 27, and 32 which you indicated were added to Bristol's scope after the draft work plan was submitted for review. I searched back through the previous reports and work plans as well as the draft 2014 report and email correspondence between the PDT and come to the conclusion that ADEC was not notified of the planned sampling and/or potential further work at these sites. The four grab samples that were recently collected from test pits for PCBs at site 6 is not adequate to determine whether PCBs remain at this site due to the unknown extent of contamination; and should have been grid sampled prior to confirmation sampled.

I must also note that ADEC was not previously notified of the Corps' decision to only excavate arsenic-contaminated soil from site 21 at concentrations exceeding 17 mg/kg instead of the cleanup level established in the 2009 DD of 11 mg/kg.

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From: Palmer, Valerie Y POA [mailto:Valerie.Y.Palmer@usace.army.mil]
Sent: Wednesday, August 13, 2014 3:18 PM
To: Dunkin, Curtis S (DEC)
Subject: RE: NEC 2014 RA Work Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi Curtis,

Work being conducted at Sites 10, 27, and 32 this year are the result of research conducted for the 5 Year Review and were added to Bristol's scope after the draft work plan was submitted for review. These would not have appeared in the 2013 activities.

- Site 10 DRO-contaminated surface soil was identified in the 2009 Decision Document but it was not apparent if recent excavation areas had removed those sample locations. Historic (1994 and 1995) sample locations are to be relocated and sampled for GRO, DRO, RRO, PCBs, VOCs, PAHs, glycols, RCRA 8 metals, nickel, vanadium, and zinc. If cleanup levels established in the DD are exceeded the soil will be excavated.

- Site 27 had one confirmation sample from 2001 that exceeded for naphthalene (191 mg/kg). Bristol is scoped to relocate the 2001 sample location and re-sample for

naphthalene, DRO and RRO. If the sample exceeds the cleanup level the soil will be excavated. The DRO/RRO sample will be analyzed at the on-site lab. The naphthalene sample will be sent to an analytical lab.

- Site 32 DRO-contaminated soil was identified in the 2009 DD. It appears the excavation conducted in 2010 did not address the historic elevated sample locations (excavation was conducted in the wrong areas as a result of a surveying error). Historic samples will be relocated and sampled for DRO and RRO. Soil exceeding cleanup will be excavated.

Arsenic data from Site 21 is still being modeled. 17 mg/kg and above was selected as a threshold we felt comfortable removing in order to keep field activities moving forward. Otherwise no excavation was going to occur. If modeling is not complete prior to demobilization, areas in the immediate vicinity of the Site 21 excavation exceeding 11 mg/kg will be capped, similar to what was done last year. As previously discussed we are doubting that 11 mg/kg accurately represents the background concentration of arsenic.

No debris has been shipped from NE Cape yet this year.

With regard to the 2014 work plan comments, there's the potential for comments to be overcome by events. If works continues as indicated in the DQCRs, demobilization will likely start next week. Please let me know if you have any other questions.

Thanks,
Valerie

From: Dunkin, Curtis S (DEC) [mailto:curtis.dunkin@alaska.gov]
Sent: Tuesday, August 12, 2014 1:14 PM
To: Palmer, Valerie Y POA
Subject: [EXTERNAL] NEC 2014 RA Work Plan

Valerie, I have some questions pertaining to the 2014 NEC RA DQCRs and the ongoing 2014 RA work.

Base or optional tasks for sampling and/or removals in 2014 at sites 10, 27, and 32: I am unable to locate any references to this proposed work in the draft 2014 work plan as either base options for 2014 or carry over from 2013; sites 27 and 32 are also not included in the 2013 work plan or report.
Site 21 removals are referenced in the recent DQCRs as targeting concentrations exceeding 17 mg/kg although the approved ADEC site specific cleanup level is 11 mg/kg arsenic; with the one exception of one outlier sample result of 14 mg/kg that was approved as a one-time exception by ADEC in 2013 to be left in place.
ADEC was informed via another contractor working on another site in AK that a barge hauling metal from NEC tripped the Seattle harbor's detectors for radiation. Could you please clarify the status and whether or not this is a similar issue to the 2012 (I can't specifically remember if it was

’12 or ’11) occurrence?

Also, I am still compiling ADEC’s other comments on the 2014 work plan. In regards to the questions which were raised today re: the stockpiled overburden soil from the POL plumes that were thought to be below cleanup level per the 2010 UVOST results, this was primarily the reason why ADEC requested that at least one soil sample be collected within the profile of each of MW borings. This was also my concern I raised in the 2013 report in regards to ADEC’s concern with the correlation of the UVOST results and managing what was presumed to be overburden which was below the site-specific cleanup level.

ADEC will also be submitting its comments on the 1st 5yr review by Friday this week.

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Classification: UNCLASSIFIED
Caveats: NONE

From:	Dunkin, Curtis S (DEC)
To:	Palmer, Valerie Y POA; Shewman, Aaron F POA
Subject:	[EXTERNAL] FW: Tuesday"s NEC POL-contaminated overburden stockpile RESULTS (UNCLASSIFIED)
Date:	Thursday, August 14, 2014 12:36:10 PM
Attachments:	Pad98_Stockpile_Sketch_with_Lab_DRO_Final_Data.pdf 580-44915_Pad98DiscreteSPSamples.xls

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Valerie, thank you for providing the email summarizing Tuesday's teleconference to discuss project team's concerns re: the stockpiled overburden soil in question; as well as providing the requested laboratory analysis results and soil stockpile diagram and photos. Per the analytical results, DRO and RRO concentrations in the 190 cu yards (estimate) of stockpiled overburden soil at pad 98 are below their respective site-specific cleanup levels; therefore, ADEC approves the subject soil to be used as backfill in an appropriate location. Please contact me if you have any questions regarding ADEC's determination and/or this email.

Curtis Dunkin
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-----Original Message-----
From: Palmer, Valerie Y POA [mailto:Valerie.Y.Palmer@usace.army.mil]
Sent: Thursday, August 14, 2014 12:17 PM
To: Dunkin, Curtis S (DEC)
Cc: Shewman, Aaron F POA
Subject: RE: Tuesday's NEC POL-contaminated overburden stockpile RESULTS (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi again Curtis,

Please find attached a figure and results of the stockpile sampling, as requested. Please provide any feedback to Aaron Shewman and I. Bristol would like to move forward soon.

Thank you,
Valerie

-----Original Message-----
From: Palmer, Valerie Y POA
Sent: Thursday, August 14, 2014 6:56 AM
To: 'Dunkin, Curtis S (DEC)'
Subject: RE: Tuesday's NEC POL-contaminated overburden stockpile call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi Curtis,

Here's a summary of the teleconference discussing the stockpile:

Overburden material from the MOC excavation was stockpiled and sampled for DRO. Two of the four samples

came back above 9,200 mg/kg. The soil associated with those two samples was sent to Pad 98 for bagging. Two additional samples were collected from the stockpile "sidewalls" where the soil was removed. During the course of field activities additional soil was added to the stockpile before the "sidewall" soil was removed for bagging. After it was discovered that the two "sidewall" samples were above 9,200 mg/kg (26,000 mg/kg) the stockpile the soil was moved to Pad 98. To confirm the soil was above the cleanup level a seven-point composite sample was collected (with duplicate). These samples came back at 7,800 mg/kg and 8,400 mg/kg. The path forward for the stockpiled soil was then discussed.

Quantity of soil in the stockpile is approximately 200 CY. It was agreed that 4 additional discrete samples (plus one duplicate) would be collected from the stockpile. Soil above 9,200 mg/kg will be bagged for disposal. Soil below that threshold will be used as backfill. Sample results will be provided to the team.

The request for a sketch and results prior to the field team making any determinations whether or not the respective soils require disposal was received after the teleconference and has been forward to the field for an answer.

Thank you,

Valerie

From: Dunkin, Curtis S (DEC) [mailto:curtis.dunkin@alaska.gov]
Sent: Wednesday, August 13, 2014 6:05 PM
To: Palmer, Valerie Y POA
Subject: [EXTERNAL] Tuesday's NEC POL-contaminated overburden stockpile call

Valerie, thank you for your responses you sent earlier to my other questions re: sites 10, 27, 32, and 21. I will address those separately in a specific response to that email.

In regards to the project team's resolution call to address how the overburden soil now stockpiled on pad 98 - which initially exceeded the site specific cleanup level at 26,000 mg/kg according to A. Shewman - please provide ADEC with summary notes from Tuesday's call which briefly summarizes what occurred and what the PDT agreed on. Please also provide ADEC with a rough figure of stockpile sample locations as well as results prior to the field team making any determinations whether or not the respective soils are above or below the site specific cleanup level(s) and subsequent decisions re: whether disposal is necessary.

Thank you

Curtis Dunkin

Environmental Program Specialist

ADEC Contaminated Sites Program

555 Cordova Street

Anchorage, AK 99501

Phone: 907-269-3053

From: Dunkin, Curtis S (DEC)
Sent: Tuesday, August 12, 2014 1:18 PM
To: Palmer, Valerie Y POA
Subject: today's NEC stockpile call

Valerie, sorry I forgot to request this in the call and my last email. Could you please provide ADEC with notes from today's call so we have the discussion and the agreed path forward on record? Thank you

Curtis Dunkin

Environmental Program Specialist

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Phone: 907-269-3053

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

REVIEW COMMENTS

PROJECT: Northeast Cape FUDS
DOCUMENT: 2014 NE Cape HTRW Remedial Action Report, Saint Lawrence Island, Alaska

U.S. ARMY CORPS OF ENGINEERS	**DATE: 07/22/2015** **REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)**	**Action taken on comment by:** Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
1.	Page 13	This is a very useful summary of removal and remedial actions. It would be helpful also to include quantities here as well.	Noted	Where not provided in this summary, quantities were provided in the respective removal action (RA) reports. This report addresses removal actions and observations that occurred in the summer of 2014.	
2.	Page 14, Line 3	Please indicate the constituents of the 1000 g of liquid removed from Site 10.	A	The following text will be added directly from the 2012 RA Report: "A variety of liquids were encountered within the drums and consisted of new and used oil, oil/water mixtures, tar, diesel fuel, ethylene glycol (antifreeze), and alcohols. The physical properties of the drum liquids ranged from colorless, low-viscosity alcohol to black, highly-viscous tar/oil."	
3.	Page 14, Lines 13 and 14	Please provide justification for abandonment of the 12 monitoring wells.	A	This response is from the 2013 RA Report: "Bristol was tasked to abandon compromised groundwater monitoring wells and well points in order to remove the physical hazards associated with the wells and eliminate the contaminant migration pathway they may create. Twelve wells were identified by USACE for decommissioning. Several of the wells resided within areas scheduled for excavation and other wells were either damaged or their well completion log information was not known."	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
4.	Page 15	In Table 2-1, it is unclear from the statements "in review" and "in progress" what is actually being done. Please provide additional details for each section. In Table 2-1, it is necessary to provide information on the specific land use controls that are being used to "limit" future drinking water use. From our perspective, people should not be drinking water within the Suqi River watershed and signage should indicate this as a precautionary measure.	A	The status will be updated as follows: Excavation and removal of petroleum, metals, and PCB-contaminated sediment at Site 28 Drainage Basin, including removal of near-surface sediments from the narrow channel upgradient of the Suqitughneq River: *Completed in 2012 and 2013. Second CERCLA Five Year Review scheduled for 2019.* Construction of sedimentation pond or other appropriate controls at Site 28 Drainage Basin: *To be evaluated during Second CERCLA Five Year Review scheduled for 2019.* MNA of petroleum-contaminated sediment at Site 8 POL Spill Site: *Second Five Year Review scheduled for 2019.* Land use controls to limit future drinking water uses for groundwater at the MOC…: *Long Term Management Plan under development, future implementation.* 5-Year Reviews at sites with hazardous substances remaining above cleanup levels…: *First Five Year Review completed in February 2015. Second Five Year Review scheduled for 2019.*	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
				Periodic visual monitoring for 5 years of the capped areas…: *Visual monitoring completed from 2010-2015. Second periodic review scheduled for 2019.* A more detailed discussion on land use controls is being developed separately under a Long Term Management Plan. USACE anticipates a draft of this document will be available for review and comment in early 2016. Implementation of Land Use Controls is planned during FY16 with development of a long term management plan.	
5.	General Comment	The Tapisaq should be added as an area for remedial investigation and cleanup, given the elevated levels of PCBs.	Noted	During the October 2015 Restoration Advisory Board (RAB) meeting, additional discussion was held regarding this concern. USACE has no authority to conduct work or initiate a project in this area because it is outside the established FUDS property boundary and there is no documented evidence that former military activities occurred at this location. USACE needs additional evidence that links former military activity at this area to observed contamination before a new project can be considered for approval.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
6.	Page 17, Bullet 7	Why were these 3 monitoring wells at the MOC abandoned?	A	The three monitoring wells at the MOC were determined to be unserviceable (not able to sample due to frost jacking or pinching of well casings) or well completion log information was not available.	
7.	Page 17, Bullet 10	We are concerned that debris is surfacing at Site 7 and may indicate that the cap's integrity is breached and ineffective. Why is this debris surfacing—seems to indicate a problem with the cap? Please describe the situation in more detail later in the document.	A	Additional text will be added to Section 6.10.1 (Removal of Misc. Debris, Drums and Poles) stating the majority of debris removed at Site 7 came from ponds and depressions outside of the cap footprint and a small amount of metal debris and wire was observed protruding from the northern edge of the cap and was removed by hand. Additional text reference to USACE inspection report F10AK0906906_01.11_502_p on August 7, 2013 stated the cap had good growing grass with seeds evident for further propagation of grass and no notes of any debris protruding from the cap. 2014 and 2015 inspections were also performed and their observations and conclusions will also be referenced.	
8.	Page 50	Why are there three up-gradient wells? Please provide justification for placement of all the monitoring wells. There seems to be a number of wells in the vicinity of the MOC, however concerned that there is little coverage at or near the landfill sites, for example, to monitor leachate.	A	The MOC lies over an alluvial fan from Kangukhsam Mountain that forms the valley south of the MOC as noted in Section 2.4, page 5. The wells capture the center and periphery of the alluvial fan and confirm no source areas were nearby.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
9.	Page 51, Paragraph 1	More investigation of the possible source(s) of lead needs to be done in 2015.	A	See also response to Comment #13 below. Lead is a known COC in groundwater at the Main Operations Complex, based on the remedial investigation phase.	
10.	General Comment	MNA does not seem to be working in many locations as indicated by the continuing presence of petroleum-related compounds and anaerobic conditions. This contamination has persisted for several decades without sufficient degradation. We urge that active treatment such as oxidative technologies be employed to treat contaminated soils and groundwater.	A	POL source removal via POL-contaminated soil excavation and off-site disposal occurred at the MOC from 2010 through 2014. Groundwater sample results collected to date have shown a general decrease in dissolved POL constituent concentrations over time. Future groundwater sampling events are planned. Anaerobic groundwater conditions indicate anaerobic respiration (i.e., degradation) of petroleum constituents is occurring within the dissolved petroleum plume. Oxidative technologies were tested at the site during a pilot study in 2009 and determined to be ineffective. Results of the study are contained in the Phase I In-Situ Chemical Oxidation Report dated August 2010.	
11.	Page 53, Paragraph 2	A single sample is not representative and should be supplemented with additional samples.	A	Future well sampling is planned.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
12.	General Comment	Need to install monitoring wells downgradient from landfill sites.	A	Surface water sampling was conducted as part of the landfill monitoring. The 5 year review field personnel attempted to place well points 6 to 30 inches bgs near the landfill sites. Large boulders were encountered at some well-point locations and resulted in well point refusal. Successfully installed well points did not encounter water.	
13.	Page 57, Paragraph 3	Further investigation is needed to determine source of lead. This is not necessarily anomalous.	A	The lead detected in groundwater is considered anomalous because the corresponding soil boring results from the well installation did not contain elevated levels of lead. However, the lead detected in the groundwater sample could also be related to the high turbidity in the water sample. Dissolved lead concentrations from groundwater filtered in the field did not exceed cleanup levels at 14MW07 or any other well locations.	
14.	Page 69 and General Comment	Concerned about levels of TCE and PCE and whether sampling is adequate to determine the full nature and extent of these contaminants. Given the carcinogenicity of these compounds, further sampling is needed of these analytes and their metabolites.	A	MOC wells and source areas had been previously sampled for full VOCs including PCE, TCE, and their daughter products and were determined not to be present as a contaminant of concern at the MOC. TCE and PCE were encountered in drums and soil at Site 10 and removed. Well MW10-1, which is within the footprint of Site 10, was non-detect for PCE, TCE and daughter products.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
15.	Page 70, Paragraph 2	The contaminated soil here should be excavated and removed.	A	Protectiveness of the implemented remedy at Site 10 and evaluation of any residual contaminated soil will be completed during the next Five Year Review (scheduled in 2019).	
16.	Page 79, Paragraph 2	The contaminated soil here should be excavated and removed.	A	Protectiveness of the implemented remedy at Site 21 and evaluation of any residual contaminated soil will be completed during the next Five Year Review (scheduled in 2019).	
17.	Page 81, Paragraph 1	Need to re-evaluate effectiveness of landfill cap at Site 7 since debris is re-surfacing, indicating a breach in the integrity of the cap.	A	Additional text will be added to section 6.10.1 and 6.10.2 (Removal of Misc. Debris, Drums and Poles) stating that the majority of debris removed at Site 7 came from ponds and depressions outside of the cap and a small amount of metal debris and wire was observed protruding from the edge of the cap and was removed by hand. Additional text reference to USACE inspection report F10AK0906906_01.11_502_p on August 7 2013 that states the cap has good growing grass with seeds evident for further propagation of grass and no notes of any protrusions within the cap. 2014 and 2015 inspections were also performed as separate contracts their observations and conclusions will be referenced.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/22/2015 REVIEWERS: Pamela Miller/ Vi Waghiyi (ACAT)	Action taken on comment by: Marty Hannah, Bristol (907) 563-0013 USACE, Alaska District

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
18.	Page 82, Paragraph 1	See no basis here to draw the conclusion that the nature of the area promotes natural breakdown of DRO.	A	See reference to 2009 decision document. Natural organic materials are also breaking down at the site as evidenced by detritus and previous soil and water samples collected in the Site 8 decision units.	
19.	Page 82, Paragraph 2	Concern that homogenization of samples within each DU mischaracterizes the nature and extent of contamination and will miss hot spots. Additional characterization and samples needed.	A	MI sampling is an ADEC accepted method to characterize sites. Hotspots had been previously sampled with one result exceeding site-specific cleanup levels.	
20.	Page 83, Paragraph 1	Excavation at Site 8 is needed because of past contamination and current exceedances of 2-methyl naphthalene.	A	The Site 8 selected remedy of MNA is specified in the 2009 NE Cape Decision Document.	
		----- End of Comments ----			

Alaska Department of Environmental Conservation (ADEC)
Contaminated Sites Program
Document Reviewed: Draft April 2015 Northeast Cape HTRW Remedial Action Report
Commenter: Curtis Dunkin-ADEC **Date Submitted:** July 22, 2015; Follow-on Comments Submitted August 17, 2015

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1.	ES-1 – ES-5	Executive Summary	ES-1: a) Please add a clarification for the bullet item re: the seven monitoring wells that were to be reconditioned to note that another well was determined to be serviceable resulting in 8 wells that were reconditioned and sampled. ES-3: b) Please amend the third bullet on this page (and elsewhere in the associated narrative sections) to state whether or not the soils associated with the open grate were previously investigated. c) Please revise the first sentence of the last paragraph on this page to state: '…continuation of removal actions which were initiated in 2011.' d) Please revise the sentence located in the middle of the last paragraph on this page which states 'All excavation objectives have been achieved.'; since this has not yet been determined or approved by ADEC. ADEC also notes that not all of the planned excavation efforts were achieved since alterations to some planned removals were necessary throughout the removal action process; i.e. some areas not excavated due to hydrogeological conditions, proximity to site 28, etc. For this and any other similar statements throughout the report, clarify the RA year to which it applies.	a) The addition of the eighth well will be added to the bullet in ES-1 b) The third bullet will be amended to state the Site 31 soil, including the grate, was previously investigated and the contaminated soil removed c) The first sentence will be revised as suggested d) The statement will be revised to read, "The USACE considers all excavation objectives to have been conducted in accordance with the Northeast Cape Decision Document (dated January 2009) and achieved to the extent feasible based on site conditions." The statement is meant to cover all excavation activity from 2011 forward and is stated in the sentence prior.
2.	1	1.0	Please revise the last sentence of this section by omitting 'a few small' and simply state '…completed tasks associated…'.	The suggested removal will be made.

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3.	7	2.5	Re: the discussion of permafrost in the first complete paragraph on this page (and elsewhere throughout the document), a standalone subsection should be created here that also includes a more detailed summary of the permafrost and/or the seasonal freeze/thaw conditions associated with the active layer which have been observed during implementation of the remedial work over the past six consecutive field seasons.	Bristol was not scoped for geotechnical investigations. Bristol was scoped to identify and remove contamination. All references and most discussion in the permafrost section were performed by others, (MWH, Farians, USGS). No more detail can be provided. Observations for 2014 will be revised for clarity.
4.	8	2.5	Re: the stream discussed in the first paragraph on this page, please clarify if the seasonal changes in flow was observed in 2014 only or also in other years. Please also clarify whether or not this was the same surface water feature which was sampled in 2013 as part of the Supplemental Five-year Review Investigation.	The paragraph will be amended to show that the fluctuations were observed in 2014 as well as prior years. The stream discussed in the first paragraph is downstream of "Kangukhsam Mountain Spring". The spring was sampled during 2013 and contributes flow to the stream discussed in this paragraph.
5.		Table 2-1	General: please change the use of the term 'completed' throughout this table and in associated with other similar references throughout the report to i.e. 'conducted', 'implemented', and/or 'constructed' etc.; since ADEC has not issued formal decisions re: completion of work and/or cleanup complete status for any of the subject sites.	The term completed will remain, however a footnote will be added to the table stating that *ADEC has not issued formal decisions regarding completion of work and/or cleanup complete status for any of the subject sites.*
6.	16	Table 2-1	Please define what is implied by the word 'clearly' in the status column; or simply omit it.	This is language from Decision Document. No change.
7.	17	3.1	a) As previously commented, please amend references to the reconditioned wells throughout the document to clarify that 7 wells were scoped for reconditioning but that 8 wells were actually reconditioned as a result of	a) The statement will be amended to show that an additional well was added after being observed as serviceable in

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			adding the well which was determined to be serviceable in 2014. b) Please amend the references to the '2 tons of debris' to clarify whether this was 2 tons each for a total of four tons from site wide and pond debris, or 2 tons total for both. c) For action items stating sample collection and analyses, please briefly state the primary COCs which were included in the analyses for each site/AOC.	2014 prior to decommissioning. b) The statement will be amended to show that there was a total of four tons of debris. c) The COCs are noted in other places within the document and referenced in AOC specific sections that describe the AOC specific CoCs.
8.	19	4.0/4.1	Please revise the statements associated with ADEC not having submitted comments on the draft work plan. While ADEC did not formally submit a comprehensive list of comments, ADEC did submit significant comments and requests to the Corps both orally and via email. ADEC also submitted approvals to the Corps over the course of the draft review period as well as throughout the field season for implementation of specific sections of the work plan. ADEC notes that the draft 2013 RA report was still in the comment resolution stage and that an updated revised or final version had not been submitted prior to submitting the draft 2015 work plan. The final 2013 RA report was not received by ADEC until February 2015. This can be further discussed and resolved in a resolution meeting. ADEC notes that some of the work conducted in 2014 was not presented to ADEC for consideration and review in the draft work plan prior to implementation. This should also be discussed and clarified during comment resolution.	Text revised to state: "…but the ADEC did not provide formal comments prior to field implementation." This comment will be discussed further should there be a comment resolution meeting. Statements will be added regarding email communications being ADEC and USACE regarding Site 21 borings and activities.
9.	28	5.7	Please revise the first sentence of the last paragraph on this page since planned excavation depths in 2014 (and prior years) were based on the 2010 UVOST SI results as well as field observations made during previous removal actions.	It will be added that observation during previous removal actions played a role in subsequent removals.
10.	29	5.7	Please revise the last sentence of this section to state: '…containerized at Pad 98 for offsite disposal (Figure 4).'	The suggested change will be made.

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11.	32	5.10	Please mention the sieve and geo technical analyses results associated with the site 28 sediment and reference the location of the results and/or narrative discussion.	All results from Site 28 activity performed in 2014 are detailed in Section 3.1 of Site 28 Technical Memorandum Addendum Rev 1 (Appendix L of the 2013 RA Report).
12.		Table 5-1	a) Please clarify the reference to 'Site 10 Tar Contaminated Soil' as ADEC was not previously aware that the surface soil tar AOC was associated with Site 10, nor have previous investigation results indicated that tar was a COC associated with Site 10. ADEC was not aware that further removal actions associated with tar were necessary and/or planned for 2014 as it is was not mentioned in the objectives in the draft work plan or report. b) Was sampling and analyses conducted to determine whether or not there was residual lead contamination at the locations where lead-acid batteries were discovered?	a) The tar referenced was not a surface soil contamination. A statement will be added noting that the drums were encountered during the Site 10 excavation. The drums were removed and characterized and the contents and contaminated soil was disposed of offsite. The table will be modified to state "Site 10 drums containing tar" for clarity. It was all contained in the drums and is fully described in Section 6.5.2. b) The sentence will be modified to say small battery pieces were discovered in soil at Site 10 and the soil was tested for RCRA-8 metals which includes lead. None of the lead results exceeded cleanup levels and the soil surrounding the battery debris was removed due to the presence of other CoCs above cleanup levels.
13.		Table 5-2	Please note the primary COCs which were associated with the Site 28 sediment based upon waste characterization analysis results.	Change Waste Type in Table 5-2 from "Site 28 sediment" to "Contaminated Sediment from Site 28" to maintain consistency. All results from Site 28

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				activity performed in 2014 are detailed in the Site 28 Technical Memorandum Addendum (Appendix L of 2013 RA Report).
14.	36	5.12.1	Re: the statement associated with the confirmation sample frequency of flooded excavation floors in POL excavations, please state 'as approved by ADEC in 2010 on a site-specific basis for POL excavations only at NEC'.	The statement will be added.
15.	38	5.13	Please amend this section to include a broader summary of the work conducted by the field laboratory i.e. was it utilized for both field screening and/or confirmation sample analyses, how many of each sample type were analyzed, etc.	Additional information regarding the field lab will be added that it was all confirmation samples for DRO/RRO only. Additional soil was removed and resampled when results exceeded cleanup levels.
16.	39-40	6.1	a) 14MW03 was installed within an area where previous removal actions and backfilling had occurred in recent years. What was observed to be the cause of refusal when the location was excavated to 10 feet? What was the condition of the excavated material (potential extent of contamination, large boulders, concrete etc.), and what was the fate of this material in lieu of the excavated area being backfilled with clean borrow material? What was the depth at which the groundwater table was encountered at this location, and what was the screened interval? b) ADEC has similar concerns as 14MW03 associated with the installation of 14MW07. The narrative associated with 14MW03 and 14MW07 should discuss how the removal and clean backfilling may or may not impact 2014 and future groundwater sample analysis results at these locations. Was the installed dry well simply left in place?	a) A statement will be added that the excavation to 10 feet bgs at 14MW03 unearthed boulders. Soil was not visibly impacted and fuel odor was not noted. Excavated material was stockpiled with overburden from ongoing removal actions. Depth to groundwater was 15 feet bgs in boring and 13.35 feet bgs in completed well. Screen interval was 12 - 22 feet bgs. b) A statement will be added that both 14MW03 and 14MW07 were installed with the top of the well screened interval below the base of the excavation at each location. Shallow excavation and use of clean backfill

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				associated with the monitoring well installation taking place above the screened interval is not expected to impact groundwater results. However, previous removal actions have occurred within the screened interval of 14MW03 (2013 removal actions at B1 plume, total depth 14 feet bgs) and may impact groundwater. The dry well at 14MW07 was removed and abandoned in accordance with ADEC regulations.
17.	40	6.1	a) Please revise the sentence beginning with 'Soil boring locations and selected results…' since Figure 6 actually only includes one call out containing analysis results for two COCs. Since the subject soil borings and monitoring wells were installed for the purpose of MNA, this and other applicable sections in the report, as well as Figure 6, should be amended to discuss the analysis results (all detections) of all primary COCs and not just exceedances of specific cleanup levels. b) Please revise 'groundwater interface' to 'soil-groundwater interface throughout the document.	a) The convention of "selected results" in all figures for this report are analytes exceeding the site specific clean up criteria. Detections of GRO, DRO/RRO, and BTEX have been added to the narrative. Full analytical results for MOC soil associated with the monitoring wells is presented in Table H1. As presented on Table H-1, nothing was detected in soil above evaluation criteria except for the 1- and 2-methylnaphthalene described in text. b) The term "groundwater interface" is intended to refer to the contact between the vadose and saturated zones in soil. Because the term "soil-groundwater interface" is inclusive of all saturated

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				soil, the text will be changed and the term "top of water table" will be used to refer to the contact specifically.
			c) Please clarify what is implied by 'the middle of the fill zone', whether this implies vertically, horizontally, or both; and also discuss the rationale for collecting the groundwater sample from this location vs. the interval of greatest fuel impact.	c) A groundwater sample was not collected from this interval; a soil sample was collected at the point of greatest fuel impact. If no fuel impact was noted, a soil sample was collected from the top of water table to capture any potential smear zones. Table 6-1, "Well Construction Details" was added in lieu of narrative.
			d) Please include the installation details in the discussion associated with each well location i.e. screened interval, total boring depth, etc. since all of the locations are not discussed in the same level of detail throughout this section.	d) A new Table 6-1 will be created to indicate which of the newly installed wells have the screened interval within the vertical extent of previous removal activities (backfill).
			e) Discussions re: soil sample locations and analytical results associated with soil borings and monitoring well installations should also discuss whether or not the soil boring was advanced through soils that were backfilled as a result of previous removal actions and, whether or not the backfill material at a specific location was known to have been confirmed clean borrow material, or soil that was contaminated at concentrations below the respective cleanup level but at concentrations higher than the most stringent Method Two cleanup level; or both. This will be critical information to carry forward for the MNA evaluation.	e) Text will be added to state that backfilled material in these excavations consisted of overburden containing COCs in concentrations below site specific cleanup criteria. Clean backfill obtained from the borrow pit was used within 5 feet of the ground surface above the screened interval.

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18.	42	6.2	a) Please clarify whether the referenced 15th well is the one which was previously thought to be damaged. Please also add the year (assuming 2014) that the well was scheduled for decommissioning for clarity. b) ADEC also notes that it requested the Corps, as part of a previous removal action effort, to conduct sampling and analysis on all MOC monitoring wells prior to demolishing, decommissioning, etc.	a) The addition of the 15th well will be clarified. b) A statement will be added noting groundwater samples were collected from a monitoring well scheduled for decommissioning only if it was feasible to collect groundwater samples. Several wells could not feasibly be sampled as a result of broken or pinched PVC well casing. Well MW88-3 was initially believed to have broken or pinched PVC well casing, but upon checking the well prior to planned decommissioning in 2014, the sampling team discovered that the blockage was not present and may have simply been the result of early season ice. Text will be added stating the 15th well was the only well scheduled for decommissioning that was determined to be suitable for sampling.
19.	43	6.2.1	a) Please state the well location that was determined unsuitable for the MNA program and the reason for the determination.	a) Eligibility was determined based on well condition. A well inventory was conducted at the MOC in early 2010. Several wells were determined to have poor integrity and were abandoned in subsequent years.

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			b) It would be helpful to include graphs for each of the wells included in the MNA network which depict the result trends over the years of sampling and analysis. c) Please state '18AAC75 Table C' in conjunction with 'exceeding cleanup levels' in the first sentence of the second paragraph on this page. d) Figure 7: Please revise the dates of sampling in the row associated with the call out for MW88-4. e) Please clarify in the last sentence on this page whether the analytical results were the same for both benzene and arsenic or just one of them.	b) The graphs were inadvertently omitted from the document and will be added in Section 6.2.4.1 to aid in the MNA discussion. c) Reference to Table C and the DD where applicable will be added. d) Dates on Figure 7 will be updated. e) Last sentence will be revised to state dissolved arsenic was the same concentration in 2011 and 2012 at 0.011 mg/L. A new sentence will be added to describe the benzene results, which were not the same.
20.	44	6.2.3	Please revise the first sentence to specify 'groundwater samples' as well as elsewhere throughout the document where applicable.	Groundwater samples will be added as needed.
21.	45	6.2.3	It is important to evaluate and discuss the concentrations of all COCs that are indicated by analytical results and not just exceedances of specific cleanup levels. As previously commented, concentrations over time should be evaluated to determine whether or not MNA associated with POL contamination is occurring, whether or not potential contaminant sources may still be present i.e. the lead contamination detected in groundwater.	COCs at concentrations less than site-specific cleanup levels are presented in Table H3 (Appendix H). Only COCs with concentrations exceeding site-specific cleanup levels will be discussed within the report text. See response to Comment #19.
22.	48	6.2.4	Please see and apply similar comments/requests above associated with including graphs, amended figures, tables, etc. to evaluate concentration trends for all COCs in groundwater over time and not just based upon whether or not an exceedance was observed.	Evaluation of concentration trends in groundwater will be presented and select COCs will be discussed. See also response to Comment #19 b).

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23.	49	6.2.4	a) Please revise the second sentence on this page to state: '…of anaerobic microbes (facultative and/or obligate), such as…'. b) Please state the purpose and location rationale associated with the three 2014 surface water samples. While TAH/TAqH and sheen are specific to surface water criteria as outlined in 18 AAC 70 (for which there is no criteria for some COCs such as DRO), it is standard for ADEC Contaminated Sites to require the evaluation of whether or not any contamination could be migrating offsite through the surface water pathway. All surface water adjacent to/associated with a contaminated site should be analyzed and evaluated for all site COCs in order to evaluate this pathway. c) In the fourth paragraph on this page, please briefly state whether previous analytical results for MW88-4 and MW88-5 indicated that groundwater at these locations was impacted by petroleum and to what extent. If applicable, these well locations and any historical analytical results which indicated exceedances of respective cleanup levels should be included on Figure 7.	a) The suggested change will be made b) The entire paragraph on surface water will be removed from the MNA section and revised for clarity. More detail regarding the surface water sample location rationale will be added to Section 6.4.2.4 (MOC Surface Water Monitoring). Basically it will state that the locations were selected due to the presence of culverts originating at the MOC (SW01, SW02) that were removed or blinded in 2011 and surface runoff (SW03) at the MOC-Site 28 interface. These locations were first sampled in 1994, so the same locations were resampled for comparison. The 3 noted locations are discrete main drainages that originate at the MOC. Surface water cleanup levels are in accordance with the Northeast Cape Decision Document dated January 2009. c) Wording will be added that states that both abandoned wells (MW88-4 and 88-5) had analytical exceedances until their removal. These exceedances are also presented on Figure 7 with the 2

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			d) Please state the installation date associated with 26MW-1 and also for other actions which are referenced throughout the report that were not conducted in 2014; i.e. the installation of 26MW-1.	wells grey shaded and noted in the legend as being abandoned. Fourth paragraph will be revised to state that it was impacted by petroleum with DRO being the likely source. Figure 7 will be revised. d) 26MW-1 was installed by Shannon & Wilson, Inc. on August 30, 2004. See well logs in Appendix E.
24.	50	6.2.4	a) Please state whether the references to 'a 5-year average' implies the same 5 years averaged for each location and whether or not they are consecutive; either specific to the discussion of each well location or at the beginning of the section if the five years for all locations are all the same. b) Please discuss any notable trends and/or changes observed over the 5 years evaluated as averages; i.e. were the parameter(s) and/or concentration(s) increasing/decreasing over time, lower for four years and higher for one year, etc.	a) It will be clarified that the 5 year averages discussed are all for the 2010 through 2014 time span at the same locations (MOC Wells). The wells with exceedances are represented, by year, on Figure 7. b) Trends will be discussed as well as noting disturbances (excavation) in close proximity to the wells.
25.	51	6.2.4	a) More evaluation and discussion are necessary in regards to instances when parameters were contradictory and whether or not specific MNA characteristics are applicable. By definition, an environment with what would be considered a normal or higher (based upon other conditions i.e. temperature, etc.) DO concentration, would not be anaerobic. Is it possible that conditions are in transition, i.e. rates of change in DO concentration vs. ORP or other factors which could be causing the contradictory conditions? Could this be an instrument calibration and/or erroneous measurement? This should be addressed for all locations where this was observed in 2014. ADEC	a) More evaluation can be conducted after additional data is collected from ongoing MNA monitoring (2015). More discussion about contradictory readings and possible influence on MNA due to excavation and other possible factors will be added to the 2014 MNA section.

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			does not recall significant discrepancies of conflicting parameters to the extent observed 2014 which were associated with previous years of groundwater monitoring and sampling at NEC. b) Please revise the second to last sentence of the first paragraph on this page to state: '…be noted that lead was…'. Please discuss the lead concentrations at the 14MW07 location in more detail as also similarly requested above. c) Please identify the type of each groundwater monitoring well location i.e. source, peripheral, down- or upgradient etc. It would also be helpful to include a table which includes these designations as well as year installed, whether it has ever been determined to have been impacted by contamination, whether aerobic/anaerobic conditions and trends of MNA, etc. d) Please include the 2011 results in the discussion of MW88-1. What were the respective RRO trends over the years evaluated? What were the concentrations of COCs within the groundwater depth interval(s) being evaluated at the time of monitoring well installation and/or removal action completion and backfilling? This discussion should be included for each monitoring well location included in the MOC network for MNA evaluation purposes. e) MW88-1 was installed in 2002 in an area which is outside of the major plumes identified by the 2010 UVOST SI and is also upgradient from the source area(s). Per figures associated with the MOC removal actions, no removal excavations have been conducted in this area. Soil boring and soil sample analysis results should be evaluated and discussed to determine whether or not a potential source area may remain at this location.	b) More lead discussion will be added. c) All wells will be identified as up gradient, down gradient, etc. d) A discussion of RRO reduction will be added. e) Excavation disturbances will be added where applicable.
26.	52	6.2.4	a) If available, please state the year, investigation event, etc. when MW-88-3 was determined to be damaged/unserviceable. More evaluation should be	a) It will be added that the well was not sampled due to a well inventory in 2010

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			conducted and discussed in regards to the 34 mg/L DRO that was observed at the time of well installation in 2002 and the sharp decrease to .76 mg/L by 2004.	where the well was thought to be damaged. DRO decrease in MW88-3 will be discussed. The reason for the sharp decrease is unclear at this time but data collected in the future may help to understand what is occurring at MW88-3.
			b) Please revise the first sentence of the second full paragraph on this page to state the date or date range in which the spill occurred, and also revise to state '…occurred during DoD operation of the facility.' for clarity.	b) Text will be revised to state: "Site 11 (former AST location) near the easterly side of the AST pads where a large documented fuel spill occurred during snow removal operations in 1967".
			c) In the last sentence on this page, and for all other monitoring well locations when applicable, please state the year of the associated removal and backfilling, rationale for choosing well location, type of well, etc.	c) Per the WP, "the proposed location of the wells is shown on Figure 7, but the locations will be verified in the field with the QAR." The MW locations were proposed based on professional judgment, existing well locations in relation to source areas, spatial distribution, and constrained by gravel pad extent. Permanent monitoring wells are not recommended for saturated tundra locations due to freeze/thaw resulting in frost jacking and potential for destroying well integrity.
			d) Also in this sentence, and elsewhere throughout the document where	d) Reference to "less than site-specific or ADEC Method Two" will be

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			'clean' is referenced, please clarify whether clean implies at concentrations below the most stringent ADEC Method Two cleanup level or higher concentrations which are below a site-specific cleanup level.	substituted for: "clean" .
27.	52-53	6.2.4	a) Re: the discussion associated with 14MW03, and other wells where applicable, please clarify whether any associated previous removal actions associated with that well location were advanced to two-feet below the water table or whether all contaminated soil was removed prior to reaching the water table. If advanced two feet below the water table, please also state the soil contaminant concentrations indicated by the associated confirmation analysis results when the excavation was completed. Please also evaluate and discuss whether/how these conditions may correlate with the 2014 groundwater results. b) While ADEC acknowledges that this section is intended to evaluate and discuss MNA at the MOC, in general, the analytical results for other analytes are not discussed (other than the one exceedance of lead cleanup level at one well). Any elevated concentrations of other COCs, especially those which were a driver of removal actions i.e. PCBs, should also be noted and discussed; whether all non-detect, etc. c) As similarly commented above, the results discussion for each well location should include a brief description of soil sample results and field observations	a) Discussion of well location depths in excavated areas will be discussed and noted when excavations stopped due to 2 ft-GW. b) Any discussion or attempt to correlate GW results to excavations would be purely speculative and will not be performed unless there are sufficient lines of evidence to support it. COCs at concentrations less than site specific cleanup levels are presented in Table H3 (Appendix H). Only COCs with concentrations exceeding site specific cleanup levels will be discussed within the report text with all other CoCs noted as being below site-specfic cleanup or evaluation criteria. c) Monitoring well installation soil results are discussed in Section 6.1 and presented on Table H3. Groundwater

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			from the soil borings at that location as well as evaluate and discuss the soil boring soil sample in comparison to the groundwater sample results.	results are presented in Section 6.2.
28.	54	6.2.4	Re: the discussion associated with 17MW-1, please state the year of well installation and whether or not it has always been the western most of the MOC wells. Likewise, the wells which are considered to be the most upgradient, downgradient, and peripheral wells should be identified in the respective narrative discussions.	The well installation year of 2004 by Shannon and Wilson will be added. As previously stated up gradient and down gradient will be added to the text for all wells.
29.	55	6.2.4	Please omit or revise the reference to 'slightly' in the last paragraph of this section for consistency; since other locations with significantly lower DRO concentrations are simply referred to as 'impacted'.	Slightly will be removed.
30.	55-56	6.2.4.1	a) The last paragraph on page 55 states that 14MW07 is located upgradient of all known POL sources, but then states on page 56 that 14MW07 is considered a source area well. 14MW07 is actually located outside of any previous removal action areas and by definition should be considered an upgradient, non-source area well. Please clarify. b) A new figure should be included in the report, similar to Figure 7 which depicts the type of well (source, peripheral, etc.), as well as lists the primary COC concentrations indicated by 2014 analytical results.	a) Text reference to 14MW07 will be revised to state it is an upgradient well. b) COCs at concentrations less than site specific cleanup levels are presented in Table H3 (Appendix H). Well types and locations are discussed in Section 6.2.4.1. Figure 7 will be revised with CoC concentrations that have exceeded cleanup levels presented. Table H3 presents all results.
31.			**ADEC submitted the portion of its comments above line 31 on July 22, 2015 and submitted additional comments below on August 17, 2015**	
32.	56	6.2.4.1	a) ADEC does not agree with considering all of the monitoring wells source area wells which are currently defined in the draft report as those wells in	a) Wells will be designated up gradient, side gradient, source and down gradient.

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			which groundwater analytical results indicate impacts from petroleum contamination. Instead, several factors need to be evaluated in order to determine whether a well is considered to be a source area, peripheral or dissolved phase, or cross gradient well. Factors to be evaluated should include i.e. residual contamination in associated soils, POL concentrations in groundwater, whether or not well is located within the dissolved phase plume, etc. Per similar comments above, a table should be developed and included in the report which categorizes the different wells. Subsequent classifications should also be indicated on associated figures.	These designations will be added to text where missing.
			b) The first sentence of the second paragraph on this page should be revised for multiple reasons. The multiple run-ons convolute the simple assessment associated with decreased DO and ORP values and increased POL concentrations. The reference to 'naturally elevated levels' should be revised/defined to i.e. 'similar groundwater conditions associated with non-impacted groundwater across NEC'. The report should also include graphs which depict this information; both specific to each monitoring well and across the whole MOC MW network. The second sentence of this paragraph should also be revised, since it is not clear based upon the first sentence, what is meant by 'This'.	b) Sentences will be revised. Bristol will ensure all pertinent graphs are included in next revision.
			c) Anaerobic and/or reducing conditions are the result of the lack of oxygen and/or microbial activity utilizing all of the available oxygen in response to the presence of carbon sources; and not solely the result of increased carbon sources; which is how the current wording reads ('as dissolved petroleum concentrations increase'). Please revise for clarity.	c) Petroleum is the carbon source at this particular location with predominant gravel matrix. It will be restated that microbial activity is biologically removing oxygen.
			d) Please revise the last sentence of the second paragraph on this page. ADEC has previously requested revision and clarification of similar statements associated with previous NEC documents. It is misleading to state that	d) Sentence will be revised for clarification and include "above applicable site-specific cleanup levels".

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			surface waters are not impacted by petroleum based on TAH, TAqH, and/or sheen alone. The TAH/TAqH, and/or sheen criteria are exclusively specific to permits issues by ADEC's Division of Water for stormwater, wastewater, etc. All previous analytical results of surface waters adjacent to the MOC have detected significant concentrations of POL contaminants to date; most of the concentrations which have actually exceeded 18 AAC 75 Table C cleanup levels indicating that POL contamination is actively migrating from impacted groundwater associated with the MOC to downgradient and/or hydrologically connected groundwater and surface water. Associated references throughout the report should also be revised and discussion expanded to clarify that 18 AAC 70 surface water criteria are not the same as 18 AAC 75 cleanup levels. Rather 18 AAC 70 surface water criteria represent threshold concentrations that may not be exceeded as a result of associated action(s); the action(s) in this case would be the DoD activities and resulting contaminant release(s). e) In the last paragraph on this page, based upon the discrepancies associated with MNA parameters which ADEC commented on above, please define the criteria/range of the stated 'strongest indication degradation may be occurring'. Please also provide supporting rationale for why this is best assessed from a well that was just installed and sampled for the first time in 2014 vs. other wells at the MOC which have numerous years of sample data.	Surface water cleanup levels are in accordance with the Northeast Cape Decision Document dated January 2009, not a permit. e) The paragraph will be restated with additional text.
33.			General based on references prior to July 23 comments: revise references to 'former AST location' to 'location of 3 former 160k-gallon ASTs' for clarity.	Reference will be changed to Site 11-the location of 3 former 9,790 barrel ASTs.
34.	57	6.2.4.1	a) Please revise the last sentence on page 56 which continues onto page 57 by omitting some of the language to simply state '…suggest groundwater in the vicinity of the well is in an anaerobic state and methanogenesis is occurring.'. In this and other similar discussions throughout the MNA section, please also discuss the analytical results and how they correlate with the MNA parameters	a) The paragraph will be revised.

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			measured in 2014. b) In the third paragraph on this page, and elsewhere throughout the document where applicable, please briefly explain the rationale for comparing certain wells; i.e. 14MW07 and 22MW2 (i.e. gradient, proximity to plume, groundwater elevation, soils, etc.). ADEC notes that the subject two wells are actually 500+/- feet apart. Based upon the footprint of the MOC groundwater plume and associated monitoring well network, these two wells are not necessarily comparable based upon distance alone. c) Please revise the last sentence on this page to state there is 'no known anthropogenic source of lead'. Discussions of lead detections in groundwater should also include a review discussion of available analytical results of soil samples which have been collected in the vicinity of associated wells where the elevated lead concentrations were observed in 2014.	b) Further explanation will be added to the paragraph. The wells are comparable based on comparable groundwater elevations and being above all known sources of POL contamination, i.e. upgradient wells. c) Agreed. Text revised to include "known". Further evaluation of lead can be conducted during five year review.
35.	58-59	6.3	Was MW88-3 evaluated in the years between 2010 and 2014 and was the cause of the blockage not previously confirmed? Was any attempt made to clear the blockage after 2010 – similar to the thawing rod that was used in previous years for other wells that had an ice lens blockage?	The well was not evaluated after 2010 until 2014 when the well was scheduled for decommissioning and then deemed usable. No attempts were made.
36.	59	6.4.1	Other primary COCs associated with the MOC that should also be stated include metals (notably lead and arsenic), glycol and VOCs.	Lead, arsenic, glycol, and VOCs were not identified as COCs in soil at the MOC according to the Decision Document. Glycols and VOCs other than BTEX were only discovered at Site 10 during exploration for potentially buried drums, which were unearthed and properly disposed of along with Site 10 soil. Refer to Section 6.5-Site 10 Soil Investigation and Removal.
37.	60	6.4.2	In the second paragraph of this section, please describe the soil and weather	Additional text will be added stating

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			conditions which were considered conducive/favorable for mechanical separation.	"When moderately dry soil that was excavated and staged and was screened when rain and wind conditions were favorable…"
38.	61	6.4.2.1	Re: the segregation of overburden soils based upon the stated 'strong' vs. 'no' odor, shouldn't the segregation criteria have been detectable vs no odor? How would the field team have known whether or not removal and/or stockpiling actions were mixing contaminated with uncontaminated soils?	Sentence will be revised.
39.	61-62	6.4.2.1	a) Please provide more detail re: the overburden that was removed and stockpiled; i.e. estimated cu yards removed, how the volumes were differentiated based upon odor as stated, the volume determined to be contaminated at concentrations exceeding respective cleanup levels, the contaminant concentrations, etc. b) Was any of the overburden that was excavated in 2014 actually clean backfill associated with previous removal actions and if so, did analytical results indicate the presence of COCs and/or at concentrations exceeding respective cleanup levels? c) How much of the 'presumed clean' overburden actually exceeded the respective cleanup levels, and, how did analytical results of presumed clean overburden correlate with the 2010 UVOST results?	a) The estimated yardage of overburden stockpiles for screening and sampling purposes will be added. Segregation was initially based on UVOST readings to rough depths and then the soil was segregated based on "fuel odor" and "no fuel odor". The stockpiles and overburden were field screened and analyzed per ADEC field sampling guidance and WP to confirm proper segregation, as stated in the last sentence. b) All overburden was original MOC pad material that analysis showed had no CoCs above CULs. c) Section will be restated that overburden stockpiles were field screened and sampled per ADEC and WP guidance. Five of the 26

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				overburden stockpile samples exceeded site specific criteria. Those stockpile sample locations were excavated and placed on Pad 98 for bagging. The stockpiles were resampled after removal and all results were less than cleanup levels. The actual volume removed was not documented but it was properly removed and the stockpiles were resampled.
40.	62	6.4.2.2	a) Please revise the reference to 'the contaminated zone' in the second sentence of this section (and elsewhere throughout the document) to 'the zone in which COC concentrations exceeded respective cleanup levels'; similar to other previous comments regarding using the reference 'contaminated' in association with exceeding a specific cleanup level. Such misplaced references are misleading when contaminant concentrations actually exceed the most stringent level(s) although they are below a given site-specific cleanup level. b) Please provide more detail/discussion re: dewatering saturated soils and/or soils removed at or below the groundwater table.	a) No change to text. UVOST screening was used as a guide to identify soil for removal based on the selected remedy in the Decision Document. The remedial actions followed the approved, site specific cleanup levels for petroleum-contaminated soil at Northeast Cape. USACE disagrees that anything above the most stringent ADEC cleanup level is automatically considered contaminated when an approved remedy has been selected. b) Additional text will be added stating water was allowed to drain from excavator bucket and soils were placed directly into rock trucks and transported to pad 98. Once at Pad 98 saturated

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				soils were mixed with drier soil for handling purposes.
41.	63	6.4.2.2	In the first paragraph on this page and elsewhere throughout the report where applicable, please always state the actual confirmation analytical results and not simply 'did not exceed cleanup level'.	Text will remain essentially as-is. Text will be added to refer to analytical tables for full analytical results.
42.	64	6.4.2.3	Figure 8 should depict historical confirmation sample locations where analytical results indicated that respective cleanup levels were exceeded; requiring subsequent further removals and resampling for confirmation analysis. Please also apply this for other similar instances at other removal areas. Please also revise the second to last sentence of this section re: removal being considered complete as previously requested above to all similar statements throughout the document.	This report is based on the 2014 remedial action at the site. The figure includes confirmation sample locations prior to excavation as well as following excavation in 2014, which is accurate and appropriate. The referenced sentence reads, "The USACE considers soil removal at Plume I complete." This sentence is accurate and appropriate.
43.	65	6.4.2.4	a) ADEC has previously clarified its position re: surface water cleanup levels for Northeast Cape and the applicability of 18 AAC 75 and 18 AAC 70. While the 18 AAC 70 water quality criteria specify sheen and/or TAH/TAqH levels and do not state specific criteria for GRO, DRO, and/or RRO, 18 AAC 75 requires pathways which could involve offsite migration to be investigated and mitigated; thus the reason for ADEC requiring COCs to be included as analytes in surface water samples associated with removal actions at all NEC sites. Regardless of what is or is not specified as a cleanup level in a decision document, 18 AAC 75 still requires the offsite migration pathways (i.e. to surface water) to be addressed. This and all other similar statements/discussions associated with COC concentrations in surface waters throughout the report should be revised and expanded for clarity. b) Please include a discussion re: potential impacts and/or correlations	a) Surface water cleanup levels are in accordance with the Northeast Cape Decision Document dated January 2009. The DD has primacy. As for mitigation, the culverts were removed or blinded, contaminated soil has been removed by Bristol for the last 5 years and sediments have been removed from Site 28 drainage. b) Surface water monitoring was

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			between the various stages of removal actions and the corresponding analytical results.	conducted to ensure soil removal activities did not adversely impact surface water quality during implementation. Analytical results indicate no adverse impact.
44.	66-67	6.5.1	Re: the Five-year Review research results and subsequent work added to the 2014 work plan objectives, please clarify and discuss in more detail since the Five-year Review Report for NEC was not finalized until early 2015. As previously commented by ADEC above, these objectives were also not included in the draft work plan provided to ADEC for review.	Work was added during 2014 as a result of five-year review research in order to fill apparent data gaps in a timely cost effective manner and the results were included in the first five-year review. If the fieldwork had not been accomplished during 2014, then it would have been delayed until the next five-year review. The additional work occurred at Sites 6, 10, 27, and 32. The work at each site was described in Sections 6.7, 6.5, 6.8, and 6.6, respectively, of the 2014 RA Report. The additional work included soil sampling. Soil sampling associated with the additional work at Sites 6, 10, 27, and 32 was conducted in accordance with the overall soil sampling approach at other sites described in the work plan and in accordance with ADEC guidance.
45.	69	6.5.2	a) Please elaborate and define the stated 'evaluation criteria' in the second paragraph on this page; and elsewhere throughout the document where referenced.	a) The term 'evaluation criteria' has been used consistently by USACE in reference to new potential contaminants of concern without defined site-specific

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				cleanup levels from the Decision Document.
			b) Please also clarify the origin of the backfill mentioned in this paragraph; and all other backfill sources where applicable throughout the document.	b) The backfill source is the same as it has been for the last 5 years as stated in the WP in Section 4.1.11 and is shown on Figure 3.
46.	70	6.5.2	a) Was a liner put down to separate/demarcate the area(s) where COCs were left in place which exceeded respective cleanup levels?	a) See text of 1st paragraph. The excavation was lined with a geotextile liner, backfilled, and seeded. "Entire" will be added before excavation to make it clear that the entire excavation was lined, backfilled, and reseeded.
			b) Please clarify in the second to last paragraph on this page whether the floor and sidewall sample frequency was applied to each plume excavation or whether this was determined based upon the cumulative surface area of all excavations.	b) Sentence will be clarified to state that sidewalls were sampled for both A and B excavations at a rate of one sample per 20 linear feet for sidewalls and floor samples were based on square footage of the floors of A and B separately even though it's the same frequency of one sample per 250 sq feet. Text will be added to state: "Some areas along the perimeter of the excavation were sloped to initial grade and did not have a sidewall."
			c) ADEC notes that a follow on site investigation of Site 10 may be necessary for beyond the ongoing removals of previously confirmed contamination and groundwater monitoring. Investigations and associated removal actions	c) Comment noted. Soil sample analytes were appropriate for the drum contents identified in drums removed

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			associated with Site 10 over the years have continually expanded as a result of each effort encountering something previously unexpected i.e. new COCs, previously unidentified contaminant sources, etc. Investigation and removal efforts associated with Site 10 to date have not adequately characterized and/or determined whether or not contaminant sources remain and/or whether downgradient contamination from migration has occurred and/or is ongoing.	from Site 10. Soil confirmation samples collected from soil excavations at Site 10 confirmed identified contaminants had been removed. In one excavation, glycol contaminated soil removal was completed to competent bedrock where it was not feasible to collect a confirmation soil sample. To date, results for groundwater samples collected from monitoring well MW10-1 have indicated no analytes exceeded ADEC Table C or DD cleanup levels.
47.	71	6.6.1	a) In the third paragraph of this section, please define the referenced screening levels, and state the actual COCs and/or classes of COCs which were actually confirmed via analytical results to not exceed respective cleanup levels; instead of stating 'i.e. BTEX…'. Were previous remedial investigation efforts and results for site 32 adequate to demonstrate that DRO and RRO were the only COCs for this site? Were other COPCs disregarded based upon limited analytical results not exceeding respective cleanup levels? b) The last sentence of this paragraph requires punctuation. c) Please revise the first sentence of the last paragraph on this page to state: 'In 2014, Bristol relocated three historical soil sample locations…'. Please also indicate the year/date associated with all referenced activities; ADEC presumes Bristol's relocating the three historical locations was conducted in 2014.	a) According to the Decision Document, at Site 32 "The primary contaminant of concern is DRO." and "No other contaminants (BTEX, lead, PCBs, PAHs) were detected above screening levels." "An estimated 15 cubic yards of POL-contaminated soils will be excavated and removed." No change to text necessary. b) Correction will be made. c) Text will be revised to state: Based on the approved Decision Document, a total of approximately 75 tons of petroleum-contaminated soil were removed during 2003, 2010, and 2014.

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				Soil samples collected in 2014 confirmed removal of DRO- and RRO-contaminated soil was complete.
			d) In the last paragraph on this page, and elsewhere throughout the document where applicable, please hyphenate DRO-contaminated, and other similar references.	d) Noted.
48.	72-73	6.6.2	a) Please state the final depth bgs of the excavation once analytical results indicated that the respective cleanup level(s) had been achieved.	a) "Final" will be added to the last sentence to clarify that the final excavation was 10.5 feet x 11 feet x 3 to 4 feet bgs.
			b) Please revise the last two sentences of this section on page 73, similar to previous revision requests made above re: making 'removal complete' statements.	b) The referenced sentence reads, "The USACE considers soil removal at Site 32 complete." This sentence is accurate and appropriate and will not be changed.
			c) Please state the actual results and/or range of results for confirmations samples in this and all other applicable sections instead of simply stating 'results did not exceed cleanup level(s).	c) The last sentence refers the reader to Table H9, which presents all results. The text in the RA report will remain consistent with only discussing results exceeding cleanup levels in text.
			d) Please amend the discussion in the narrative re: the contamination that was previously identified in the decision document but was not removed in 2010.	d) The discussion will be amended to state that the location and removal during 2010 may have been in the incorrect location based on 2014 survey information. See also response to comment #65.

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			e) Please also see and apply ADEC's comments associated with Figure 12 below.	e) See response to comment #65.
49.	74	6.7.2	a) What locational information was used by the survey team? How far apart were the two locations? What is the likelihood that the vegetated location which was identified by the survey team was used as a staging area? Please discuss the objectives, COCs, etc. associated with the 2010 removal action(s) which are associated with Test Pit 2 and how this would correlate with the 2009 analytical result indicating that PCBs were present in soils above the respective cleanup level. b) In association with the 2010 removal action, how is it known that the 2014 confirmation sample collected from Test Pit 2 was actually from within a zone of native soil?	a) Professional surveyors re-located the 2009 pre-construction sampling location identified during the Five Year Review. See Figure 13. The 2010 field activities were conducted in accordance with the Decision Document. b) Text will be added stating that native soil was identified based on visual observation.
50.	76	6.9.1	Please provide a brief explanation re: trivalent state chromium's toxicity compared to hexavalent chromium. Please discuss the actual concentrations of trivalent chromium indicated by analytical results and that valence states of metals, in this case chromium, and associated toxicities are often condition-specific; i.e. pH, etc.	Please refer to the Decision Document. No change to text necessary. More information from EPA regarding chromium toxicity can be found here: https://clu-in.org/contaminantfocus/default.focus/sec/chromium_VI/cat/Overview/
51.	77	6.9.1	a) Per the current presentation of information in the report narrative and associated figures, it is unclear to ADEC how the previous 2013 removal actions, confirmation sample locations, and analytical results were carried over and used to facilitate the 2014 removal actions. ADEC's understanding, upon approving the June 2014 Site 21-specific Sampling Plan, was that results were going to be presented to ADEC for review and consideration re: the prospective path forward. ADEC was not provided with results from the June 2014 sampling event nor informed by the Corps re: the proposed/Corps-approved target concentration of 17 mg/kg arsenic in soils.	a) Please refer to the Work Plan, Figure 6 for previous 2013 data and planning for 2014 actions. ADEC was provided with the initial results from the June 2014 Site 21 arsenic sampling results on Figure 1 via email from Valerie Palmer on July 30. ADEC generally agreed with the proposed additional 9 borings locations

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				and requested further discussion via teleconference. Lisa Geist provided additional depth information clarification to ADEC on August 1. ADEC indicated they would review the Site 21 information in more detail on August 4. Lisa Geist informed ADEC that Bristol was ready to proceed with the additional 9 borings at Site 21 on August 4. The borings were completed and sampled on August 5. ADEC received copies of the DCQR reports (daily reports) directly from Bristol every day. Regarding USACE field decision to pursue target concentration of 17 mg/kg, was based on spatial review of the recently collected background data at Site 21. Locations clearly upgradient and not impacted by Site 21 had background arsenic up to 17 mg/kg. See Figures 15 and 16 for results depicted spatially. Appendix I – A revised Figure 2 will have results. 4/26/16-No changes to the 2011 Tech Memo Figures will be made since it was previously submitted. The

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			b) It is also unclear why further removal actions were conducted at the four areas located eastward of Site 21 removal area; two in between Pad 98 and the historical Site 21 removal area and two north of Pad 98. Please discuss further and clarify in the associated narrative sections. c) The last paragraph of this section should also state that Bristol was tasked to conduct further removal actions in 2014; not just perform the sample collection and analysis. d) A new figure should be added to the report which depicts the historical locations as of the end of the removal actions in 2013 where analytical results up to that point indicated arsenic concentrations in soil that exceeded the alternative cleanup level of 11 mg/kg.	date of background sampling is provided in Table 1 of the Tech Memo. Figure 1 represents confirmation sample results following removal of 17 tons of soil. Second Figure 1 will be renumbered and noted with 2014 preceding the title Note: Figure 2-5 has misleading sample label arrow indicator for 94NE21167SS with 170 mg/kg arsenic. The lines/arrows will be modified for clarity. b) Further removal was conducted because historical samples (identified in the DD) still remained which exceeded 17 mg/kg. See page 79 text. c) Sentence will be restated. d) A figure from the 2013 RA report will be included to show concentrations remaining after 2013 removal actions at Site 21. Please refer to Figure 16 in the 2013 Remedial Action Report.
52.	78	6.9.2	a) ADEC suggests amending the title of this section to include 'Removal Actions' and apply to other sections as applicable. b) ADEC was not aware of the Corps' decision to use an alternative arsenic concentration of 17 mg/kg as the soil removal criteria in 2014; nor that soils exceeding the ADEC-approved alternative cleanup level of 11 mg/kg were left	a) Suggested title change will be made. b) With regard to leaving soil with an arsenic concentration exceeding 11 mg/Kg in place during 2013 fieldwork,

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			in place and backfilled during 2014 removal actions. This section should discuss the rationale for these decisions; especially given the fact that the results of June 2014 Site 21 soil sampling and analysis confirmed that soil arsenic concentrations adjacent to and surrounding Site 21 were mostly well below the alternative cleanup level 11 mg/kg with the majority of results below 6 mg/kg. c) Please discuss the USACE PDT's rationale for the target removal concentration of 17 mg/kg and how this may impact a confidence level determination regarding whether or not residual arsenic concentrations remain in soil which may present risk(s).	please see ADEC Comment #63 dated May 2, 2014 on the Draft January 2014 Northeast Cape (NEC) 2013 Removal Action (RA) Report Revision-0, and Section 6.4.3 on Page 79 of the referenced report. ADEC concurred with leaving the 14 mg/kg arsenic result 13NC21SS17-0.5 at the end of the 2013 field season. Only one side wall sampling location with a soil confirmation sampling result of 13 mg/kg (slightly above 11 mg/kg, but below 17 mg/kg) was backfilled during 2014. c) See also response to Comment #51 a.
53.	81-82	6.11.1	a) Please discuss why was the Site 8 surface water sampling not included in the draft work plan as well as when and why the sampling was conducted in 2014.	a) Site 8 surface water sampling was a contract option during 2013 and was included in the work plan. The option was not exercised so samples were not collected. Site 8 surface water sampling was added during 2014 in order to fill a data gap ADEC previously identified in Comments #1, 23, and 63 dated May 1, 2013 on the Draft January 2013

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			b) Please revise the discussion in the last sentence on page 81 that carries over to the first paragraph of page 82. While it is true that a high organic carbon fraction in some soil types, under proper conditions 'can reduce' potential for contaminant migration, and similarly, the vegetation 'can promote' the breakdown of DRO, neither of these have been confirmed to be the case for Site 8 based upon the limited amount and type of data.	Northeast Cape Removal Action Work Plan, and Comments #14 dated May 2, 2014 on the Draft January 2014 Northeast Cape (NEC) 2013 Removal Action (RA) Report Revision-0. b) The last sentence on page 81 that carried over to the first paragraph of page 82 was derived from the Northeast Cape Decision Document dated January 2009 which states: "The high organic carbon content of the sediment promotes binding with the fuel components and minimizes the potential for contaminant migration. The abundant vegetation also helps naturally break down the diesel range organics. Given the limited surface area potentially affected by DRO and the lack of stressed vegetation, the potential for significant adverse effects to either human or ecological receptors is low." Data collected from Site 8 has supported the conclusion POL is not migrating from Site 8. The last sentence of the first paragraph on Page 82 will be replaced with actual text from the Decision Document: "The abundant vegetation provides nutrients

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				(N, P, and K) which helps naturally break down the diesel range organics."
54.	83	6.11.2	Please see and apply ADEC's comment(s) above re: the discrepancies identified by ADEC associated with surface water quality criteria and 18 AAC 75.	Surface water cleanup levels are in accordance with the Northeast Cape Decision Document dated January 2009.
55.		Table 7-1	Please include a table note that states whether or not further removals and/or additional confirmation samples were analyzed in association with samples that failed RPD criteria.	A note will be added and an asterisk will be used to depict further removal.
56.	102	7.2.3	The project sensitivity discussion should have its own heading or sub heading. Please revise the third sentence of the narrative on this page to clarify that 'analytical results confirmed the presence of the subject COCs in waste oil that was contained in drums buried at Site 10'. Please state the date(s) in which PCE and TCE were identified/confirmed as COCs.	A new heading for sensitivity will be added to Section 7.2.3. The description and dates are fully described in Section 6.5.2. page 68.
57.	103	7.2.3	Please state the date(s) associated with the referenced final round of VOC sampling and clarify whether this round of sampling occurred after the previous samples that were submitted to SGS associated with the reporting limits and soil sample volume issue.	The description and dates are fully documented in Section 6.5.2. page 68.
58.		Figures General	a) Please revise the legends in all figures to state the dates associated with all depicted activities; i.e. MI Grid and Site 21 Surface Water Sample Location in Figure 4. b) It would be helpful to include a new figure in this report (and in future reports and work plans) similar to Figure 4, that depicts the overall removal actions to date based upon the primary COC(s). This would be especially helpful for future MNA evaluations. c) Please state 2014 (or other year if applicable) in the title of each figure.	a) Refer to the Sections and results tables for sample dates. It would be more confusing on the figures. b) The POL- and PCB-excavation boundaries will be depicted on a figure in future groundwater monitoring reports. c) Years will be added to figures.
59.		Figure 5	a) As previously commented, each of the monitoring wells in the network	a) Well location identifiers will be

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			should be categorized as source, peripheral, downgradient etc. and should be listed in a table and referenced accordingly in applicable narrative sections of the report. b) Please include a figure note and explanation in the applicable narrative section of the report that defines how the inferred groundwater contours were estimated; i.e. historical groundwater elevations, visual observations, survey data, etc. c) The applicable narrative section of the report should discuss the data and methods used to determine and/or estimate the depicted groundwater flow directions.	added to text in Section 6.2.4.1 where missing, but will not be added to Figure 5. b) Text will be added to Section 6.2.2 describing how groundwater contours were interpolated by depth to groundwater at each well prior to any purging or sampling. c) Noted. See response to comment 59b.
60.		Figure 7	A new figure should be included in this and future monitoring reports (for the purposes of evaluating MNA) that depicts the subsequent years of detections for each year of the MNA evaluation for all monitoring wells which are currently and/or were previously (i.e. abandoned wells) part of the network. This will be valuable to provide a visual reference to the trends observed over time vs. only depicting information for wells from year to year where cleanup level exceedances were previously observed.	Comment noted. Will be considered for future groundwater monitoring reports/evaluation.
61.		Figure 8	a) Please include the inferred Site 28 boundary on this and all other applicable figures to provide a visual reference of the northern edge of the MOC plumes which were left in place. b) Please label what appears to the perimeter road in this and all other applicable figures. c) Please clarify in the applicable narrative sections of the report why sidewall and floor confirmation sample locations for the E1 and I1 plumes are concentrated towards specific sides of the excavation footprint; i.e. there are	a) The surveyed gravel pad area and perimeter road will be labeled. b) Perimeter road labels will be added to applicable figures. c) Text will be added to the appropriate sections regarding sidewall sampling.

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			no sidewall confirmation sample locations depicted on the northern edge of the 2014 E1 excavation area.	
62.		Figure 9	Please label each of the 2014 excavation footprints in the figure as well as other site features which are not included in the legend; i.e. the perimeter road.	Labels will be added for clarity.
63.		Figure 10	a) Similar to previous comment above, why was only one confirmation sidewall sample collected from the north and northwest sidewalls of the Site 10 Excavation B? b) Sidewall confirmation soil sample locations 14NC10SS019 and 14NC10SS30 are depicted outside of the western edge of the Excavation A boundary. Please clarify and revise if necessary. c) It would be helpful to include/depict monitoring well locations that are within the view of this and other figures as applicable. d) A legend note should be added for the red circle location(s) that it was left in place in 2014. e) It is unclear to ADEC what is intended by the two Xs in the legend re: historic sample locations that exceeded the cleanup level; was one removed as indicated and the other(s) left in place or determined to be below cleanup level per follow on confirmation sampling in 2014? f) It would be helpful to actually include the date of the historic sample locations which are depicted on this and other figures where applicable; and/or include a legend note which explains the ID convention for the depicted sample location IDs.	a) ~~It will be addressed in the appropriate section as stated in Comments #48 b) and #61.~~ 4/15/16 Confirmation sampling protocols commensurate with the ADEC draft Field Sampling Guidance were followed b) Sample 30 appears to be on the edge of the excavation, Sample 19 dot will be moved onto the boundary line. c) Refer to Figure 4. It shows all well locations proximal to the excavations. d) Noted. e) That is correct. Refer to the first paragraph of Section 6.5.2., it fully describes the activity. Figure 10 is meant to provide a visual for the text for referencing the sample locations and excavations A and B. f) Every sample ID starts with 2 numbers to indicate the year it was collected. 94=1994, 96=1996, refer to

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			g) Please revise the labels in the legend for the various years of excavations to state the plume/site to which they are associated to avoid confusing that they are associated with Site 10 removals. h) Please state the action dates for all legend entries in this and all other figures where applicable.	text. First paragraph of 6.5.2 will state that samples that start with 94 or 96 were collected in 1994 and 1996 for clarity. g) The legend will be clarified. All lines from other plumes/excavations will be removed to avoid confusion. h) Figures are meant to provide a visual support for the text for referencing the sample locations and collection dates. Add (left in place) identifier to red sidewall sample location.
64.		Figure 11	Please include the names of the features depicted in the figure i.e. the Site 10 excavation footprints A and B, the MOC perimeter road, etc. Please apply this and other general comments above as applicable to all figures in the report.	Excavations and Cargo Beach Road will be labeled. Other features will be labeled if deemed appropriate to support text.
65.		Figure 12	a) Please see and apply other general comments re: revisions to figures above as applicable. b) Please depict the excavation area(s) removed in 2010 along with the 2010 confirmation sample locations as discussed in section 6.6.1. Per comments made associated with Site 32 above, it is unclear how the historical sample and/or removal actions fit in (i.e. proximity, extent, depths, etc.) to the sampling and further removals in 2014; and, the reason(s) why the three locations were not addressed during previous removal actions in 2010. Please expand the discussion and clarify in the associated narrative section(s).	a) Noted. b) Please refer to the Five Year Review. Excavation efforts conducted by Bristol in 2010 were conducted north of the DRO-contaminated area identified in the DD. The two areas identified in the DD containing DRO concentrations above cleanup levels were re-located in 2014 and further excavation conducted to ensure the objectives of the Decision

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				Document were met.
66.		Figure 13	Please add a figure/legend/call out note that clarifies there were not two locations where historic concentrations exceeded cleanup levels rather only one. Please also apply general comments above applicable to all figures.	The figure will be revised to show one sample location from 2009 and text will be revised to state that some survey information provided was inaccurate, so the second test pit was excavated at the correct location.
67.		Figure 14	Please clarify whether the two 2014 sample locations were primary and duplicate or two primary samples. Please apply other general figure comments above as applicable.	(Duplicates) will be added under the duplicate sample IDs on all figures where appropriate.
68.		Figure 15	a) It would be helpful if surface water features were depicted as blue on this and all other figures where applicable. Please also depict the 2014 surface water sample locations and associated information (sample IDs, results, etc.) on this figure. b) Please add a figure note stating the year the image was taken; and apply to other figures as applicable; ADEC assumes imagery was not taken in the acquisition year of 2008 as stated. Is more recent imagery available than the historic black and white ones used for this report? c) Please add a directional arrow on this figure which depicts the direction towards the MOC. d) Please revise the name of the figure to 'June 2014 Site 21 Pre-removal Soil Boring Location Results'.	a) A blue line depicting a small drainage will be added to Figure 16, which shows the surface water sample locations. Figure 15 will remain unchanged. It supports text in Section 6.9.1 which describes the soil boring effort. b) The image was taken in 2008, as stated. It is the most current image available. c) An arrow will be added showing the general direction to the MOC. d) The figure name will remain the same. 2014 will be added before Site 21 to clarify the borings were advanced in

#	Page #	Section	ADEC Comment	Response
				2014.
69.		Figure 16	a) The 2014 test pit locations and associated legend and figure depictions should be revised to clarify test pits vs. removal locations. b) Please apply general comments/revision requests to Figure 15 in comment # 68 above. c) Similar to previous comments above, please clarify in the associated narrative sections and/or the figure(s) why further sampling, test pitting, and/or removal actions were conducted in the two AOCs northeast of the Concrete Pad 98 and the two AOCs east of the historical Site 21 excavation extents. d) Please clarify whether test pits were for sampling and investigation activities only whether removal actions were intended/conducted. e) Please revise the title of this figure to '…Extents and Confirmation Sample Results'. f) It would be helpful to either depict the final 2013 sample collection locations where analytical results indicated that arsenic concentrations exceeded the ACL; either on current draft figures and/or include an applicable figure from the final 2013 RA report. The narrative and associated figures	a) All test pits will be renamed excavations – the legend will be updated. b) An arrow showing the general direction to the MOC will be added. Otherwise figure will not change. It supports text in Section 6.9.2. c) Section 6.9.2 (Site 21 field activities-page 79, second paragraph describes one excavation based on historical results and described in the DD, third paragraph describes the second excavation. Text and figure legend will change verbiage from test pit to "Excavation". d) Refer to response to comment c) above. e) Comment noted. f) Please refer the text in Section 6.9.1.

#	Page #	Section	ADEC Comment	Response
			should evaluate how this information was used to plan 2014 sampling and analysis as well as removal activities. g) As previously commented above, it is unclear whether the entries in the legend for sample locations represent the end of the 2014 season, or if the results are from the 2014 season where further removal actions were conducted; please clarify and revise accordingly. h) Were there not three surface water sampling locations that were sampled at three different times in 2014? i) Please include a new figure which focuses on depicting the surface water and/or any historical Site 21-associated monitoring well sampling locations and associated results from available data and records for Site 21.	g) The 2014 removal activities are described in Section 6.9.2. h) No, just 2. One up gradient and one down gradient + field dupe collected pre-, mid- and post excavation as described in Section 6.9.3. The MOC has 3 SW locations. i) Noted. This is outside the scope of this report. The small stream on Figure 16 will be made blue. The SW results were ND as stated in the text and Table H14.
70.		Figure 17	a) Please clarify the following: there are two results depicted for the one location in the MDU; no samples/results from the LDU; and a sample location outside/downgradient of the LDU w/ no results depicted. b) In review, what evidence is there from previous/historical sampling to confirm that the UDU soils, sediment, and surface water are clean and/or COCs are not migrating? Based on this, the associated narrative sections of the report should discuss the origin of the TAqH exceedances per the	a) Field duplicate will be added to SWA03 to make it clear. Only results that exceeded cleanup levels in the DD are presented. Full results are on Table H15. Field activities and results discussion are fully described in Section 6.11.2. b) Please refer to the Five Year Review report.

#	Page #	Section	ADEC Comment	Response
			historical and 2014 analytical results. c) Please also depict all historical sample locations where analytical results indicated COC concentrations that exceeded the respective cleanup level(s).	c) Please refer to Figure A-7 from the Five Year Review. This report is intended to describe the activities and sample results for remedial work in 2014.
71.		Figure 18	Please revise the name of this and all figures in the report to include '2014'.	2014 will be added to Figures as previously stated.
72.		Appendix D Photo Log	a) More 2014 photographs associated with activities at other AOCs should also be included; i.e. the June 2014 Site 21 sampling, soil conditions at various times throughout the season (not just in July), surface water sampling, etc. It would also be helpful to arrange the photos in chronological order and to also group them associated with AOCs. b) Each photo should also be numbered or given a specific sequential ID for reference. c) Please always state the AOC and/or activity being conducted associated with each photo; i.e. include the actual ID of the well instead of only stating 'pulling decommissioned well'.	a) Not required by USACE. See electronic deliverable with supplemental files for additional photos. b) A photographic log will be added. It was inadvertently omitted during initial document production. c) Noted.
73.		Appendix H	<u>Table H1</u>: a) It would be helpful to include the sample depth either S/GW interface or bottom of boring) associated with each sample ID. b) Please clarify in the table notes what is meant by 'NA' in the Cleanup Level and Evaluation Criteria columns for this and all applicable tables. c) The report references some units in multiple formats; i.e. mg/kg and	a) Depth will be added to each sample header on the respective table. b) NA-Not applicable will be added to Table Notes. c) mg/Kg will be the standard.

#	Page #	Section	ADEC Comment	Response
			mg/Kg. Please revise and use one unit format throughout the document for consistency.	
			d) Evaluation criteria, which per the table note 2 is presumed to be associated with the Method Two Table B1 MTGW criteria, should be included and evaluated in this and other associated data tables. This is important information to consider in the MNA evaluation.	d) Already included and evaluated as Bold (purple box). The Table Notes and references are correct.
			e) ADEC notes that 14MW03, 14MW04, 14MW05, and 14MW06 had groundwater concentrations which exceeded the Table C cleanup level. Although all soil samples associated with the MW installations were collected from the soil-groundwater interface and/or the bottom of the boring, only MWs 04 and 06 had soil DRO concentrations which exceeded the MTGW criteria. Most, if not all of the 2014-installed monitoring wells were installed at locations where ADEC would have anticipated there to be significant DRO concentrations at either or both the soil-groundwater interface or bottom of the boring. The associated narrative section(s) of the report should discuss these issues in more detail.	e) See response to previous comments 17, 19, and 32.
			<u>Table H3</u>: f) The lead exceedance in groundwater associated with 14MW03 and listed in this table is actually not discussed in the associated narrative section(s) of the report; and should be along with the lead exceedance observed in 14MW07.	f) Please refer to Section 6.2.3 page 45 second paragraph, both wells are discussed. Lead will replace RRO on Figure 7-14MW03, it is currently incorrect. *~~Lead will be added to MNA discussion similar to text on p. 57, last paragraph which describes lead in 14MW06~~.

#	Page #	Section	ADEC Comment	Response
			g) Why was BTEX excluded from the analysis of the MW10-1 groundwater sample?	g) Please scroll down for complete list of VOCs which does include benzene for MW10-1. Full VOCs were only analyzed at MW10-1 due to its close proximity to Site 10 excavations, where VOCs besides BTEX were encountered in soil
			h) Analysis of 14MW06 groundwater should have included VOCs; based solely on the well's proximity to MW10-1. As previously commented above, future soil and groundwater investigations will be necessary for Site 10 to confirm whether or not COCs exceed respective cleanup levels in downgradient soils and/or groundwater.	h) 14MW06 is cross gradient from MW 10-1. It may be considered by USACE in future monitoring events.
			<u>Tables H4 and H6</u>: i) Although the respective cleanup levels for POL contaminants appear to have been achieved at all MOC POL plume AOCs, any remaining exceedances of the MTGW cleanup levels should be noted and evaluated in this and future reports as part of the ongoing MNA monitoring and evaluation.	i) The remedial action objectives as specified in the approved Decision Document will continue to be evaluated in future five year reviews.
			j) Please discuss the rationale in the applicable narrative sections of the report for why DRO and RRO were the only analytes included in the 2014 MOC soil sample analyses. All analytes which were included should be listed in the table(s) and discussed in the applicable narrative sections of the report.	j) Please refer to the Decision Document for establishing COCs and remedial action objectives for the soil excavations.
			k) Please revise the electronic table of contents names/references for the C and E plumes where applicable to correlate with the title in H6; and others throughout the document and table of contents where applicable for consistency.	k) Comment not clear. The Table Titles are similar for H4, H5, and H6. The "Tables" in the table of contents refers to tables presented within the

#	Page #	Section	ADEC Comment	Response
				text. Appendix H is noted as "Analytical Sample Results", which is correct.
74.		Appendix I	a) Please revise the title of the Appendix to i.e. 'Historical NEC Arsenic Investigations and Site Maps'. b) Figure 2-6: Please revise the title of this figure (and others as applicable) to not include 'Site 21' since it is not within the view/extent of the AOC(s) being represented in the figure.	a) Appendix I will be retitled: Site Arsenic Maps and 2011 Technical Memo Addendum. A slip sheet will be added between figures and text will be moved to end of appendix. Figures will be reorganized and in chronological order to make it more apparent what year data was collected during subsequent activity years. b) Figure title will be changed to Historical Arsenic Sample Locations at Site 34.
75.			**End of ADEC Comments**	

REVIEW COMMENTS

PROJECT: Northeast Cape FUDS
DOCUMENT: ___ Location: Saint Lawrence Island, Alaska

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/20/2015 REVIEWER: JRC/RJS _ DRAFT2 PHONE: 3159520093	Action taken on comment by: Marty Hannah, Bristol Chemist, 18 October 2015, (907) 563-0013

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
1.	Page ES-4	What was the frequency of monitoring of soil samples to adequately characterize the soil?	A	The sample frequency was 2 samples for the first 250 square feet of floor and one for each additional 250 square feet and one every 20 linear feet of sidewall as specified in the ADEC field sampling guidance and 2014 Work Plan.	
2.	Page ES-4	What criteria were used to achieve “proper” soil characterization?	A	Bulk containers were sampled at a frequency as specified in the ADEC field sampling guidance and the NE Cape 2014 Work Plan.	
3.	Page ES-4	How were the containers "properly" characterized?	A	Bulk containers were sampled at a frequency as specified in the ADEC field sampling guidance and the NE Cape 2014 Work Plan.	
4.	Page 7	Clarification please, depth to the water table?	A	Depth to water from Top of Casing (ToC). The top of the casing is surveyed and is used as a datum to the groundwater elevation at each well. Refer to BERS SOP-02 - *Groundwater Sampling* located in the 2014 Report and Work Plan.	
5.	Page 8	Were particulates monitored at any point before, during, and after remediation activities?	A	Particulates were not monitored.	
6.	Page 17	Does the excavation and removal include backfilling with clean material?	A	Please see Section 5.7.	

U.S. ARMY CORPS OF ENGINEERS	DATE: 07/20/2015 REVIEWER: JRC/RJS _ DRAFT2 PHONE: 3159520093	Action taken on comment by: Marty Hannah, Bristol Chemist, 18 October 2015, (907) 563-0013

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	RESPONSE	RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
7.	Page 70	What are the plans to address what is left in place?	A	Protectiveness of the implemented remedy at Site 10 and evaluation of any residual contaminated soil will be completed during the next Five Year Review (scheduled in 2019). If the remedy is not protecting human health and the environment, then recommendations concerning steps necessary to achieve protectiveness may be made. If the Five Year Review identifies a need to consider a significant change to the remedy, further documentation would be prepared such as an Explanation of Significant Differences or an Decision Document Amendment.	
8.	Page 85	Since the specimen weight was small (2g per cell), why do a field extraction?	A	Each 2 gram aliquot was combined in one container with methanol preservative for a total of 30 to 50 aliquots for a 60 to 100 gram sample.	
9.	Page 86	6 square → 6 feet square?	A	Text will be amended to state 6 feet x 6 feet square or 36 square feet.	
10.	Figure 3	What is the significance of the "pole" locations plotted on the figure?	A	Poles have been removed over the last 5 years to reduce surface hazards at NE Cape along with other surface debris throughout the site.	
		----- End of Comments ----			

APPENDIX B

Permits and Quarry Operating Agreement
(provided on CD)

MATERIAL SUPPLY AND
QUARRY OPERATING AGREEMENT

Kukulget Inc., whose address is P.O. Box 160 Savoonga, Alaska 99769, and Sivuqaq Inc., whose address is P.O. Box 101 Gambell, Alaska 99742, Alaska Native Corporations created pursuant to the Alaska Native Claims Settlement Act, herein referred to as "Owners," and Bristol Environmental Remediation Services LLC, whose address is 111 W. 16th Avenue, Third Floor, Anchorage, Alaska 99501, herein referred to as "Contractor" agree to the extraction of material and the operation of the quarry and such other rights as are designated in this contract, subject to the following provisions:

1. DESCRIPTION - LOCATION, MATERIAL, AND PRICE:

1.1. Quarry Description. The material source area covered by this agreement is the borrow site south of the Main Operations Complex at Northeast Cape, St. Lawrence Island, Alaska shown on the attached figure.

1.2. Royalty. The royalty price for all types of material removed from the Quarry during the Term of this Agreement is:

Material Type	Unit Price
All Material	$10.00 (per cubic yard)

Quantities to be determined by truck count.

2. EXCLUSIVE RIGHTS AND DUTIES:

Owner hereby grants to Contractor and Contractor accepts from Owner, the exclusive right to manage and operate the Quarry for the Term of this Agreement (defined in ¶3). Management and operation of the Quarry shall include, without limitation, the following:

A. The exclusive right to manage the extraction and removal of Materials from the Quarry;

B. The exclusive right, to secure access to the Quarry to avoid an attractive nuisance and deter unauthorized extraction of Materials therefrom, up to and including, fencing the perimeter and/or access to the Quarry;

C. The duty to perform all reclamation identified in the Letter of Intent (section 5).

3. TERM:

The term of this Agreement ("term") shall commence on June 15, 2014 and expire on December 31, 2014.

4. PAYMENTS AND DEPOSITS:

Within 30 days after the cessation of work for winter, or completion or termination, Contractor in any year in which the Contractor extracts or transports material from the Quarry, Contractor shall pay payments as described in Paragraph 1.2.

5. LETTER OF INTENT/ANNUAL RECLAMATION STATEMENT:

By June 15, 2014 and prior to commencing any operations in any Quarry subject to this Agreement, the Contractor shall file a "Letter of Intent" (Letter) with the State of Alaska Department of Natural Resources, Division of Land (Division of Land) as required by State law. The contractor shall also file an "Annual Reclamation Statement" (Statement) with the Division of Land as required by State law. The Statement shall be filed before December 31 of any calendar year during which Quarry operations were carried out under this Agreement. The Contractor shall provide copies of the Letter and the Statement(s) to the Owners.

6. RECLAMATION PLAN:

Contractor shall comply with the requirements of the Letter (section 5) regarding reclamation. The Contractor shall document reclamation activities per the Statement (section 5).

7. CONFLICT WITH CONTRACT.

In the event that any provision of this Material Supply Contract and Quarry Operating Agreement shall conflict with Contractor's Contract W911KB-14-D-0006, Task Order 0002 with the Corp of Engineers for the Northeast Cape HTRW Remedial Actions, St. Lawrence Island, Alaska, contract W911KB-14-D-0006, Task Order 0002 shall control and this Agreement shall be considered amended to bring it into conformity with W911KB-14-D-0006, Task Order 0002.

8. INSPECTION OF QUARRY:

Prior to commencing any operations at the Quarry, authorized representatives of Contractor and Owners may inspect the Quarry to determine whether and to what extent prior mining operations have resulted in visual environmental contamination that requires remediation. Contractor shall have no obligation to perform remediation of contamination discovered at this inspection; provided, however, that from the date of such inspection Contractor shall be liable for all hazardous materials deposited at the Quarry as a result of Contractor's operations during the term hereof, or any extension . Failure by the parties to do so shall not affect the enforceability of this Agreement, provided Contractor prepares and transmits its environmental findings to Owners, at its address set forth in ¶17, below in writing, before beginning Operations.

9. BOOKS AND RECORDS OF ACCOUNT:

Contractor shall maintain accurate and complete records, log books and books of account documenting: (a) the volume of gravel extracted from the Quarry seasonally and submitted to Owners; (b) the amounts due and payable by Contractor and; the amounts actually paid by Contractor to Owners pursuant to this Agreement.

Materials from the Quarry shall be measured by truckloads. Each truck load will contain between 18.75 and 25 cubic yards depending on the truck type (e.g., 30 or 40 ton rock truck). Truck count and truck type shall be performed and recorded by the operator loading haul units at the quarry site. The operator will provide the truck count to the Contractor's Site Superintendent or his designee on a daily basis. The Site Superintendent will provide a summary of the truck count to Owner within five business days of receiving a request from the Owner.

10. OPERATING REQUIREMENTS:

10.1. Standards of Operations. Contractor shall excavate and remove Material from the Quarry in compliance with all laws, regulations, ordinances, orders and its contract with the Corps W911KB-14-D-0006, Task Order 0002. Contractor shall conduct and maintain its Operations in a commercially reasonable, workman like and clean manner, and shall take all necessary precautions to prevent or suppress fires and to prevent erosion, contamination or destruction of the land and adjacent wetlands and waters. The Contractor agrees to carry out its quarry operations only in areas previously disturbed by others at the Quarry site.

10.2. Supervision. Contractor shall maintain adequate supervision at all times when Operations are in progress to ensure compliance with the provisions of this contract and all applicable federal, state, and local laws and regulations.

10.3. Agents. The provisions of this Contract apply with equal force upon any agent, employee, or contractor designated by Contractor to perform any of the Operations under this contract. Contractor is liable for the noncompliance caused by any such agent, employee, or contractor.

10.4. Grave Sites or Archaeological Sites. No grave or archaeological site shall be in any way disturbed, removed, or damaged. Upon encountering any grave or archaeological site, Contractor shall immediately cease work in the area of the site and shall immediately notify Owners.

11. COMPLIANCE WITH APPLICABLE LAWS:

Contractor shall comply with all local, State and federal laws, statutes, ordinances, rules, regulations, decrees, injunctions, orders and codes applicable to the operation or management of the Quarry, including without limitation, mining reclamation, mining safety and health (i.e., "MSHA") and occupational safety and health (i.e., "OSHA"). These laws and regulations are, by this reference, made a part of this Contract.

12. REQUIRED PERMITS:

Contractor shall obtain and maintain, at its expense and throughout the Term, all licenses, permits, approvals, consents and certificates from local, state and federal authorities which may be necessary or appropriate for its management and operation of the Quarry.

13. ASSIGNMENT:

This contract may be assigned or transferred pursuant to 30 days advance notice to Owners.

14. PERMITS:

Any permits necessary for Operations under this Contract must be obtained by Contractor before commencing those Operations.

15. WARRANTIES:

This sale is made without any warranties, express or implied, as to quantity, quality, merchantability, profitability, or fitness for a particular use of the Material to be extracted from the Quarry under contract. Contractor specifically waives any claims that may arise resulting from the use of the Material.

16. NOTICES:

All notices and other documents required or authorized under this Contract must be in writing and are deemed delivered upon receipt provided that the same are sent certified mail, postage paid, to the party to which the same is mailed the following address or such other address as such party may by written notice provide:

To the Owner: Kukulget Inc.
P. O. Box 160
Savoonga, AK 99769

Sivuqaq Inc.
P.O. Box 101
Gambell, AK 99742

with a copy to Jerald Reichlin, Attorney at Law.

To the Contractor:

Bristol Environmental Remediation Services, LLC
Attn: Greg Jarrell
111 W. 16th. Avenue, Third Floor
Anchorage, Alaska 99501

17. INTEGRATION AND MODIFICATION:

This Contract, including all laws and documents that by reference are incorporated in it or made a part of it, contains the entire agreement between the parties. This Contract may not be modified or amended except by a document signed by both parties to this contract. Any amendment or modification which is not in writing, signed by both parties, is null and void and of no legal effect.

18. SEVERABILITY OF CLAUSES OF CONTRACT:

If any provision of this Contract is adjudged to be invalid, that judgment does not affect the validity of any other provision of this Contract, nor does it constitute any cause or action in favor of either party as against the other.

19. CONSTRUCTION:

Words in the singular number include the plural, and words in the plural number include the singular.

20. HEADINGS:

The headings of the numbered paragraphs in this Contract shall not be considered in construing any provisions of this Contract.

21. "EXTRACTED," "EXTRACTION":

In this Contract, use of the terms "Extracted" and "Extraction" encompasses the severance or removal, as well as extraction, by Contractor of any Material covered by this Contract.

22. WAIVERS:

No agent, representative, or employee of Owners has authority to waive any provision of this Contract unless expressly authorized to do so in writing by the Presidents of Kukulget Inc. and Sivuqaq Inc.

23. GOVERNING LAW:

This Contract shall be governed by and construed in accordance with Alaska law. Venue and jurisdiction shall lie exclusively in the Superior Court for the State of Alaska, Third Judicial District, at Anchorage, Alaska.

24. EFFECTIVE DATE:

This Contract shall be effective the 15th day of June 2014.

25. BY SIGNING THIS CONTRACT, Owner, and Contractor, agrees to be bound by its provisions as set out above.

CONTRACTOR:

By: _____
Its: ____Project Manager – 3-20-2014__

OWNER:

Kukulget Inc.

By: _____
Its: _____

Sivuqaq Inc.

By: _____
Its: Vice-pres
4-23-14

Sivuungam Yupiga
a-tunem ayuqu

Kukulget Inc.
P.O. Box 160
Savoonga, AK.
99769

Phone: (907)984-6184 Fax (907)984-6185

FAX TRANSMITTAL FORM

To: Bristol
Name: Russell James
CC:
Phone: 563 0013
Fax: 563 6713

From: Morris Toolie Jr.
Date Sent: 5/14/14
Number of Pages: 2

Message:

Here is the signed page, If you have any Question call

25. BY SIGNING THIS CONTRACT, Owner, and Contractor, agrees to be bound by its provisions as set out above.

CONTRACTOR:

By: _____
Its: ____Project Manager – 3-20-2014__

OWNER:

Kukulget Inc.

By: _____
Its: President

Sivuqaq Inc.

By: _____
Its: _____

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
ENVIRONMENTAL ENGINEERING SECTION (EN-EE)
P.O. BOX 6898
JBER, ALASKA 99506-0898

REPLY TO
ATTENTION OF:

01 May 2013

Environmental Engineering Section C-0004

SUBJECT: Northeast Cape Right of Entry Documents, Contract W911KB-13-C-0004, NE Cape HTRW Remedial Action (FY13), Northeast Cape, St. Lawrence Island, Alaska

Bristol Environmental Remediation Services
111 W. 16th Avenue, Suite 301
Anchorage, AK 99501

Gentlemen:

The purpose of this letter is to deliver Northeast Cape Right of Entry (ROE) documents recently signed by members of Kukulget, Inc. and Sivuqaq, Inc. All personnel (contractor, subcontractors, government, and other visitors) working on the project should be made aware of and adhere to the conditions in the ROE documents. Please include the ROE documents in the 2013 Work Plan.

If you have any questions, please contact the undersigned at 753-5789.

Sincerely,

Ronald S. Broyles
Contracting Officer's Representative

DEPARTMENT OF THE ARMY
RIGHT-OF-ENTRY FOR
ENVIRONMENTAL ASSESSMENT AND RESPONSE

The undersigned, hereinafter called the "**Owner**", in consideration of the mutual benefits of the work described below, hereby grants to the **UNITED STATES OF AMERICA**, hereinafter called the "Government", a right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government an irrevocable right to enter in, on, over and across the land described herein, for a period not to exceed five (5) years, **beginning June 1, 2013**, and terminating upon the earlier completion of remediation or the filling of a notice of termination in the local land records by the representative of the United States in charge of the Saint Lawrence Island remediation project, for use by the United States, its representatives, agents, contractors, and assigns, as a work area for environmental investigation and response**;** including the right to store, move, and remove equipment and supplies; erect and remove temporary structures on the land; investigate and collect samples; excavate and remove ordnance and explosive waste, pollutants, hazardous substances, contaminated soils, containerized waste, and replace with uncontaminated soil; excavate and remove all storage tanks (above, at and below ground level), contents and appurtenant piping; demolish and dispose of former military structures and debris; construct, operate, maintain, alter, repair and remove groundwater monitoring wells, groundwater purification and injection systems, appurtenances thereto and other devices for the monitoring and treatment of contamination in soil, air and water; and perform any other such work which may be necessary and incident to the Government's use for the environmental investigation and response on said lands; subject to existing easements for public roads and highways, public utilities, railroads and pipelines; reserving, however, to the landowner(s), their heirs, executors, administrators, successors and assigns, all such right, title, interest and privilege as may be used and enjoyed without interfering with or abridging the rights and right-of-entry hereby acquired.

2. The Owner also grants the right to enter and exit over and across any other lands of the Owner as necessary to use the described lands for the purposes listed above.

3. All tools, equipment, and other property taken upon or placed upon the land by the Government shall remain the property of the Government and may be removed by the Government at any time within a reasonable period after the expiration of this permit or right-of-entry.

4. Upon expiration or termination of this right-of-entry, the Government shall assure restoration of the ground contour and replace any pavement or other cover which was removed or damaged for this work, establish a groundcover of grass on areas not otherwise covered and reconnect any operating utility lines which were required to be disconnected or otherwise disrupted.

5. If any action of the Government's employees or agents in the exercise of this right-of-entry results in damage to the real property, the Government will, in its sole discretion, either repair such damage or make an appropriate settlement with the Owner. In no event shall such repair or settlement exceed the fair market value of the fee title to the real property at the time immediately preceding such damage. The Government's liability under this clause is subject to the availability of appropriations for such payment, and nothing contained in this agreement may be considered as implying that Congress will at a later date appropriate funds sufficient to meet any deficiencies. The provisions of this clause are without prejudice to any rights the Owner may have to make a claim under applicable laws for any damages other than those provided for herein.

6. The land affected by this right-of-entry is located in the State of Alaska, and is described as follows:

All surface and subsurface rights on Saint Lawrence Island, Alaska, within;
Township 25 South, Range 54 West, Kateel River Meridian

WITNESS MY HAND AND SEAL this 24 day of April, 2013.

Kukulget, Inc.

Authorized Signature

Morris Toolie, Jr. - President

P.O. Box 160
Savoonga, Alaska 99769

(907) 984-6184

Sivuqaq, Inc.

Authorized Signature

Rodney Ungwiluk, Jr. – President

P.O. Box 101
Gambell, AK 99742

907) 985-5826

UNITED STATES OF AMERICA

Thomas M. Kretzschmar
Chief, Real Estate Division
US Army Engineer District, AK
P.O. Box 6898
JBER, Alaska 99506-0898
FAX 907-753-1836

SAINT LAWRENCE ISLAND, ALASKA **NO. DACA85-8-12-00046**

5. If any action of the Government's employees or agents in the exercise of this right-of-entry results in damage to the real property, the Government will, in its sole discretion, either repair such damage or make an appropriate settlement with the Owner. In no event shall such repair or settlement exceed the fair market value of the fee title to the real property at the time immediately preceding such damage. The Government's liability under this clause is subject to the availability of appropriations for such payment, and nothing contained in this agreement may be considered as implying that Congress will at a later date appropriate funds sufficient to meet any deficiencies. The provisions of this clause are without prejudice to any rights the Owner may have to make a claim under applicable laws for any damages other than those provided for herein.

6. The land affected by this right-of-entry is located in the State of Alaska, and is described as follows:

All surface and subsurface rights on Saint Lawrence Island, Alaska, within;
Township 25 South, Range 54 West, Kateel River Meridian

WITNESS MY HAND AND SEAL this 20th day of April, 2013.

Kukulget, Inc.

Authorized Signature

Morris Toolie, Jr. - President

P.O. Box 160
Savoonga, Alaska 99769

(907) 984-6184

Sivuqaq, Inc.

Authorized Signature

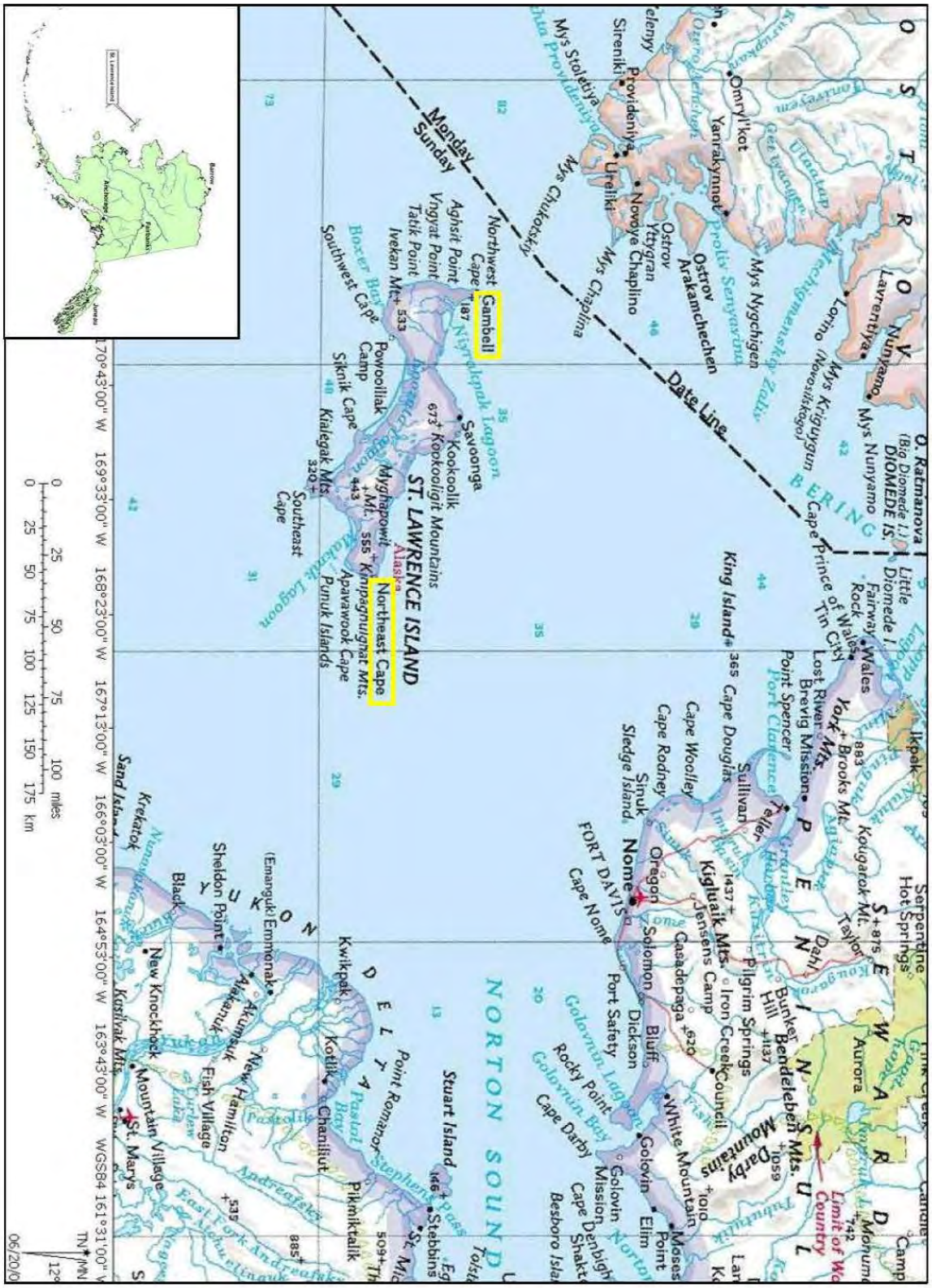
Archie Ungwiluk, President

P.O. Box 101
Gambell, AK 99742

907) 985-5826

UNITED STATES OF AMERICA

Thomas M. Kretzschmar
Chief, Real Estate Division
US Army Engineer District, AK
P.O. Box 6898
JBER, Alaska 99506-0898
FAX 907-753-1836


ST. LAWRENCE ISLAND
NORTON SOUND
Gambell
Northwest Cape
Southwest Cape
Northeast Cape
Savoonga
Kookoolik
Kookooligit Mountains
Powooliiak Camp
Siknik Cape
Kialegak Mts.
Southeast Cape
Punuk Islands
Apavawook Cape
Nigrakpak Lagoon
Boxer Bay
Monday
Sunday
Date Line
Mys Chukotskiy
Mys Chaplina
Mys Nygchigen
Ostrov Arakamchechen
Yanrakynnot
Omryl'kot
Novoye Chaplino
Ureliki
Yttygran
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Mys Stoletiya
Lorino
Lavrentiya
Nunyamo
Mys Nunyamo
Mys Kriguygun
O. Ratmanova
(Big Diomede I.)
DIOMEDE IS.
Little Diomede I.
Fairway Rock
Wales
Tin City
Cape Prince of Wales
Lost River
Brevig Mission
Point Spencer
Port Clarence
Teller
Sullivan
Cape Douglas
Cape Woolley
Cape Rodney
Sinuk
Sledge Island
King Island
Nome
FORT DAVIS
Cape Nome
Oregon
Solomon
Port Safety
Dickson
Bluff
Rocky Point
Cape Darby
Golovin
Golovin Lagoon
Golovin Bay
Mission
Cape Denbigh
Besboro Island
Moses Point
Elim
White Mountain
Council
Iron Creek
Pilgrim Springs
Jensens Camp
Casadepaga
Kigluaik Mts.
Bunkerhill
Bendeleben Mts.
Darby Mountains
Aurora
Kougarok Mt.
Brooks Mt.
York Mts.
Serpentine Hot Springs
Ikpek
Stuart Island
Stebbins
St. Michael
Pikmiktalik
Point Romanof
Stephens Pass
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Mountain Village
St. Marys
Fish Village
New Hamilton
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WGS84
06/20/0

Kukulget Inc.
P.O. Box 160
Savoonga, AK.
99769

Phone/Fax (907)-984-6184

April 23, 2013

Mr. Thomas M. Kretzschmar
Chief, Real Estate Division
US Army Engineer District, AK
P. O. B0x 6898
JBER, Alaska 99506-0898

Dear Mr. Kretzschmar:

The Board of Director's held a meeting April 5, 2013 and these items shall be considered for the upcoming project at Northeast Cape starting June 1, 2013:

1. Fishing only at the mouth of Tapisak River

2. There shall not be any beachcombing by project employees

3. There shall not be any 4 wheeler riding or any type of land mode transportation on Lands other than stated in the Project's use.

Thank you and please consider these issues as we did not revise the Right of Entry Contract with these additions.

Sincerely yours,

Morris Toolie, Jr.
President

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Natural Resources
Division of Mining, Land & Water
Northern Regional Land Office
3700 Airport Way
Fairbanks, Alaska 99709-4699
Main: 907-451-2770
Fax: 907-451-2751

July 11, 2013

RECEIVED
JUL 15 2013
BRISTOL

Bristol Environmental Remediation Services, LLC
ATTN: Susan Luetters
111 W. 16th Ave. Third Floor
Anchorage, Alaska 99501

Re: LAS 29198 – Letter of Intent for Non-state Land

Dear Ms. Luetters,

The Department of Natural Resources (DNR), Division of Mining, Land and Water (DMLW), Northern Regional Office (NRO), received your Letter of Intent (LOI) for gravel extraction. According to the application the subject site is located on private land on the Northeast Cape of Saint Lawrence Island within Township 25 South, Range 54 West, Kateel River Meridian.

Thank you for submitting an LOI for gravel extraction activities taking place during 2013. After reviewing the LOI we have determined that the LOI is complete as submitted. The proposed reclamation measures are appropriate provided that the operation is conducted in a manner that will prevent unnecessary and undue degradation of land and water resources, and the operation shall be reclaimed using current reclamation methods so that the site is left in a stable and safe condition. No financial assurance is required for activities under an LOI.

Although the proposed gravel extraction is exempt under the provision for small operations, an annual reclamation statement needs to be filed with this office at the end of the year. This statement should disclose the total acreage and volume of material mined in the current year, the total acreage reclaimed, and the specific reclamation methods used to comply with AS 27.19.020 (Reclamation Standards). Please submit this statement to the DNR, DMLW, NRO no later than January 31, 2014. If a statement is not submitted, subsequent operations, regardless of size, will no longer be exempt from a mining reclamation plan and bonding.

This acceptance letter does not alleviate the necessity to obtain authorizations required by other agencies and entities for this activity. If you have any questions, please feel free to contact me. I can be reached at (907) 451-2728 or at dianna.leinberger@alaska.gov. We look forward to working with you. We hope you have a successful field season.

Sincerely,

Dianna Leinberger

Dianna Leinberger
Natural Resource Manager

From: Sackinger, Robert B (DNR)
To: Luetters, Susan
Subject: RE: NE Cape 2013
Date: Tuesday, March 12, 2013 9:24:18 AM

Susan,

The previous letter of entry authored by Dianna Leinberger remains valid for 2013. However, please let me know next year if additional activity is expected to occur in the 2014 season.

Best Regards,

R. Bruce Sackinger
Natural Resource Specialist III
State of Alaska, Department of Natural Resources
Division of Mining, Land & Water, Northern Regional Office
(907) 451-2720
bruce.sackinger@alaska.gov

.

From: Luetters, Susan [mailto:sluetters@bristol-companies.com]
Sent: Monday, March 11, 2013 5:26 PM
To: Sackinger, Robert B (DNR)
Cc: Jarrell, Greg; James, Russell; Floyd, Christopher B POA
Subject: NE Cape 2013

Hi Robert,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in mid -June. I have included the email string from the past couple of years, and as attachments the original Permit letter and the current year's project description. Conditions surrounding the request remain unchanged from the past four years. Are we still good to go?

If you require any additional information please call/email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013

From: Luetters, Susan
Sent: Wednesday, April 11, 2012 3:20 PM
To: 'Leinberger, Dianna L (DNR)'
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: RE: NE Cape 2012

Hi Dianna,

It is that time of year again. Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again. I have included the email string from the past couple of years, and as attachments the original Permit letter and the current year's project description. Conditions surrounding the request remain unchanged from the past three years. Are we still good to go?

If you require any additional information please call/email me.

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Leinberger, Dianna L (DNR) [mailto:dianna.leinberger@alaska.gov]
Sent: Thursday, April 21, 2011 1:31 PM
To: Luetters, Susan
Subject: RE: NE Cape

Susan,

The letter is still valid. I'll note in the file that clean up is still ongoing.

-Dianna

Dianna Leinberger
Department of Natural Resources
Division of Mining, Land & Water
Northern Region Lands Section - Permits & Easements
907-451-3014

From: Luetters, Susan [mailto:sluetters@bristol-companies.com]
Sent: Thursday, April 21, 2011 12:41 PM
To: Leinberger, Dianna L (DNR)
Subject: FW: NE Cape

Trying this one more time.

Susan Luetters
Senior Environmental Scientist
Phone : (907) 563-0013

From: Luetters, Susan
Sent: Thursday, April 21, 2011 12:33 PM
To: 'dainna.leinberger@alaska.gov'
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: FW: NE Cape

Hi Dianna,

It is that time of year again . . . As per below we are ramping up for the 2011 season out at NE Cape conditions surrounding the request are the same as 2009 and 2010. Are we good to go?

Susan Luetters
Senior Environmental Scientist
Phone : (907) 563-0013

From: Luetters, Susan
Sent: Tuesday, February 23, 2010 1:19 PM
To: 'dianna.leinberger@alaska.gov'
Subject: FW: NE Cape

From: Luetters, Susan
Sent: Tuesday, February 23, 2010 10:11 AM
To:
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: NE Cape

Hi Dianna,

As per the attached, Bristol Environmental Remediation Services will be going back to Northeast Cape at the request of the USACE to continue the environmental remediation of the Formerly Used Defense Site. Included in this transmission is your 2009 "Letter of Entry for State tidelands within Kitnagak Bay, Saint Lawrence Island" For the purpose of accessing NE Cape for a Formerly Used Defense Site Cleanup and a Native American Lands Environmental Mitigation Program Project.

The conditions that surrounded the issuance of this Letter of Entry will not be changing for the 2010 season; therefore, do we need to re-request this authorization for the 2010 season or will the 2009 letter extend to cover this season since there is no expiration date on the authorization?

Thank you for your attention to this matter and we look forward to your response.

Sincerely,

Susan Luetters
Senior Environmental Scientist
Bristol Environmental & Engineering Services Corporation
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

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Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

111 W. 16th Avenue, Third Floor
Anchorage, AK 99501
phone (907) 563-0013
fax (907) 563-6713
www.bristol-companies.com

31 October 2013

Mary Gleason
Department of Natural Resources
Division of Mining, Land & Water
Northern Regional Land Office
3700 Airport Way
Fairbanks, AK 99709-4699

Re: Annual Reclamation Statement – LAS 29198

Dear Ms. Gleason:

This is the annual reclamation statement for the LAS 29198 – Letter of Intent for Non-state Land for the Northeast Cape, St. Lawrence Island, Alaska project (NE Cape) [USACE contract W911KB-13-C-0004].

Bristol Environmental Remediation Services (Bristol) quarried 10,686 cubic yards of borrow pit material from the quarry at the NE Cape project site during the summer of 2013. The area disturbed by the removal of the material is approximately 50,000 square feet on a slope that is less than 30 degrees. The quarry consists of coarse gravel, sand and cobbles and has no vegetation. At the end of the mining operation in September 2013 a Cat 322B excavator and a Cat 160H grader were used to grade the borrow pit area and to re-contour and fill any trenches, pits or holes that were created from the mining operation. There is no site drainage issue since all the runoff percolates through the coarse material in this area.

Bristol does not want to close the project out due to the fact that we probably will return to NE Cape in 2014 to do some follow-up site remediation which will include using more borrow pit material from the quarry.

If you have any questions, please contact me at 907-743-9341.

Sincerely
Bristol Environmental Remediation Services, LLC

Molly Welker
Project Manager

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINING, LAND & WATER
Water Resources Section

550 WEST 7TH AVENUE, SUITE 1020
ANCHORAGE, ALASKA 99501-3562
PHONE: (907) 269-8600
FAX: (907) 269-8904

June 12, 2012

Bristol Environmental Remediation Services
Attn: Molly Welker
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501

Subject: Temporary Water Use Authorization, TWUP A2012-63

Dear Ms. Welker:

The Water Resources Section completed the review of the Application for Temporary Use of Water from Bristol Environmental Remediation Services. Enclosed is the Temporary Water Use Authorization TWUP A2012-63, **with an expiration date of September 15, 2016,** for uses associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site on St. Lawrence Island.

Please note all of the conditions on the permit, especially conditions one (1), five (5) and thirteen (13) through twenty-four (24).

If changes to this project are proposed during its operation, please contact this office immediately to determine if further review is necessary. If you have any questions or concerns, I may be contacted at (907) 269-8588. Thank you for your cooperation with the Water Resources Section.

Sincerely,

Merry Johnson

Merry Johnson
Natural Resource Specialist III

Enclosures: Temporary Water Use Authorization – TWUP A2012-63
Administrative Service Fee Fact Sheet

Cc. Susan Luetters, Bristol Environmental & Engineering Services Corporation
(Via email: sluetters@bristol-companies.com)

ALASKA DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land, and Water
Water Resources Section
550 West 7th Avenue, Suite 1020, Anchorage, AK 99501-3562

TEMPORARY WATER USE AUTHORIZATION
TWUP A2012-63

Pursuant to AS 46.15, as amended and the rules and regulations promulgated thereunder, permission is hereby granted to Bristol Environmental Remediation Services, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska 99501, and its contractors, **to withdraw up to 3,000 gallons of** water per day **(subject to a maximum of 180,000 gallons of water)** from June 15 through September 15 of each authorized year from the below-described source of water. The water will be used for camp water supply and dust suppression associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site, on Saint Lawrence Island, Alaska.

SOURCE OF WATER:

Suqitughneg River within NW¼ Section 15, Township 25 South, Range 54 West, Kateel River Meridian.

STRUCTURES TO BE CONSTRUCTED AND USED:

Screened water intake structure, four-inch pump with 35-gpm output, hose and/or pipe and other water removal and distribution equipment.

Changes in the natural state of water are to be made as stated herein and for the purposes indicated.

During the effective period of this authorization, the permittee shall comply with the following conditions:

CONDITIONS:

1. This authorization does not authorize the permittee to enter upon any lands until proper rights-of-way, easements, or permission documents from the appropriate landowner have been obtained.

2. Follow acceptable engineering standards in exercising the privilege granted herein.

3. Comply with all applicable laws, and any rules and/or regulations issued thereunder.

4. Except for claims or losses arising from negligence of the State, defend and indemnify the State against and hold it harmless from any and all claims, demands, suits, loss, liability and expense for injury to or death of persons and damages to or loss of property arising out of or connected with the exercise of the privileges covered by this authorization.

5. Notify the Water Resources Section upon change of address.

6. The permittee shall obtain and comply with other permits/approvals (state, federal, or local) that may be required prior to beginning water withdrawal pursuant to this authorization.

7. The permittee shall allow an authorized representative of the Water Resources Section to inspect, at reasonable times, any facilities, equipment, practices, or operators regulated or required under this authorization.

8. Failure to respond to a request for additional information during the term of the authorization may result in the termination of this authorization.

9. The permittee is responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project, and shall ensure that workers are familiar with the requirements of this authorization. For any activity that significantly deviates from the approved project during its siting, construction, or operation, the permittee is required to contact the Water Resources Section and obtain approval before beginning the activity.

10. The Water Resources Section may modify this authorization to include different limitations, expand monitoring requirements, evaluate impacts, or require restoration at the site.

11. Any false statements or representations, in any application, record, report, plan, or other document filed or required to be maintained under this authorization, may result in the termination of this authorization.

12. Pursuant to 11 AAC 93.220 (f), this authorization may be suspended by the Department of Natural Resources to protect the water rights of other persons or the public interest.

13. Any water intake structure in fish bearing waters, including a screened enclosure, well-point, sump, or infiltration gallery, must be designed, operated, and maintained to prevent fish entrapment, entrainment, or injury, unless specifically exempted by the Alaska Department of Fish and Game, Habitat Division.

14. **Water intake structure must be enclosed and centered within a screened box or cylinder with a maximum screen-mesh size of 1/4 inches. To reduce fish impingement at the screen/water interface, water velocity may not exceed 0.5 feet per second when the pump is operating.**

15. **Adequate flow and water levels must remain to support indigenous aquatic life and provide for the efficient passage and movement of fish. Issuance of this authorization does not give the permittee the right to block or dam a water course.**

16. Permittee shall inspect the intake screen for damage (torn screen, crushed screen, screen separated from intake ends, etc.) after each use and prior to each deployment. Any damage observed must be repaired prior to use of the structure. The structure must always conform to the original design specifications while in use.

17. Water discharge (including runoff) shall not be discharged at a rate or location resulting in sedimentation, erosion, or other disruptions to the bed or banks of water bodies, causing water quality degradation.

18. The suction hose at the water extraction site must be clean and free from contamination at all times to prevent introduction of contamination to the water body, and should be in water of sufficient depth so that sediments are not disturbed during the water extraction process.

19. Water bodies shall not be altered to facilitate water withdrawal or disturbed in any way. If banks, shores, or beds are inadvertently disturbed, excavated, compacted, or filled by activities attributable to this project, they shall be immediately stabilized to prevent erosion and resultant sedimentation of water body which could occur both during and after operations. Any disturbed areas shall be recontoured and revegetated.

20. Pumping operations shall be conducted in such a way as to prevent any petroleum products or other hazardous substances from contaminating surface or ground water. Pumps will not be fueled or serviced within 100 feet of a pond, lake, stream, or river unless the pumps are situated within a catch basin designed to contain any spills. Vehicles will not be fueled or serviced within 100 feet of a pond, lake, stream or river. Equipment shall not be stored or serviced within 100 feet of any of the subject water bodies. In case of accidental spills, absorbent pads shall be readily available at the water collection point. All spills must be reported to the Alaska Department of Environmental Conservation and the Alaska Department of Natural Resources.

21. In-water activity will be limited to placement and removal of the intake structure only. No other in-water activities will occur.

22. There shall be no wheeled, tracked, excavating, or other machinery or equipment (with the exception of the non-motorized screened intake box) operated below the ordinary high water line.

23. The placement of water trucks and/or pumping equipment shall not unnecessarily hinder public access.

24. Per 11 AAC 05.010. (a)(8)(M), an annual administrative service fee shall be assessed on this appropriation of water.

This Temporary Water Use Authorization is issued pursuant to 11 AAC 93.220. No water right or priority is established by a temporary water use authorization issued pursuant to 11 AAC 93.220. Water so used is subject to appropriation by others (11 AAC 93.210(b)).

Pursuant to 11 AAC 93.210 (b), authorized temporary water use is subject to amendment, modification, or revocation by the Department of Natural Resources if the Department of Natural Resources determines that amendment, modification, or revocation is necessary to supply water to lawful appropriators of record or to protect the public interest.

This authorization shall expire on September 15, 2016.

Date issued: June 12, 2012

Approved: K. Pleth

Title: Natural Resource Manager

From: Luetters, Susan
To: James, Russell
Cc: USACE NE Cape PM - Valerie Palmer
Subject: FW: Letter of Intent Verification
Date: Thursday, April 24, 2014 1:55:53 PM

Hi Russell,

Below is the acknowledgement extending the LOI that we submitted last year for the mining on non-state lands. As indicated below we will need to submit a report like we did last year at the end of the season. Like all the others an electronic copy has been saved to the folder and a hard copy into the project binder.

I do believe that this is the last of them that I initiated. Did Kyle complete whatever it was you needed him to do before he left for vacation?

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013
Direct : (907) 743-9316

From: Leinberger, Dianna L (DNR) [mailto:dianna.leinberger@alaska.gov]
Sent: Thursday, April 24, 2014 11:48 AM
To: Luetters, Susan
Subject: Letter of Intent Verification

Hello, Ms. Luetters,

This email is to confirm that Bristol Environmental Remediation Services, LLC, has a current Letter of Intent with the Department of Natural Resources for a non-state land material site for the 2014 field season. The material site is for a NE Cape project. I verified that an annual reclamation statement was received for the 2013 season. An annual reclamation statement will be required at the end of the 2014 season as well.

If you have any questions, please feel free to call me.

Thank you,
Dianna

Dianna Leinberger
Conveyances Team Manager
Northern Region Office
Division of Mining, Land & Water
Department of Natural Resources
(907) 451-2728

STATE OF ALASKA

SARAH PALIN, GOVERNOR

1300 COLLEGE RD.
FAIRBANKS, AK 99701
PHONE: (907) 459-7289
FAX: (907) 459-7303

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

FISH HABITAT PERMIT
FH09-III-0102

ISSUED: April 22, 2009
EXPIRES: December 31, 2014

Ms. Molly Welker
Bristol Environmental and Engineering Services Corporation
111 W. 16th Ave., Third Floor
Anchorage, AK 99501-5109

Dear Ms. Welker:

RE: Equipment Stream Crossing, Northeast Cape White Alice Site Removal Action (St. Lawrence Island), T25S, R54W, Quangeghsaq River; SID AK 0203-17AA

Pursuant to AS 16.05.841, the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed your proposal to make multiple crossings at multiple sites (four) across the Quangeghsaq River with amphibious all-terrain vehicles. Timbers or poles may need to be placed in and adjacent to the stream to create better crossing sites that prevent ATVs from getting stuck and reduce damage to vegetation. Access is needed to cut down and remove hundreds of poles from abandoned utility lines. ADF&G originally received a description of the proposed project on March 19, 2002 and a more detailed description via email on April 3, 2002. That activity was permitted under Fish Habitat Permit FG02-III-0073 which expired December 31, 2005. Additional access may be needed to conduct maintenance activities.

The Quangeghsaq River supports anadromous Dolly Varden (and possibly whitefish) and resident fish (e.g., Alaska blackfish) in the area of your proposed activity. Based upon our review of your plans, your proposed project may obstruct the efficient passage and movement of fish.

In accordance with AS 16.05.841, project approval is hereby given subject to the following stipulations:

(1) Equipment crossings shall be made from bank to bank in a direction substantially perpendicular to the direction of stream flow.

Equipment crossings shall be made only at locations with gradually sloping banks. There shall be no crossings at locations with sheer or cut banks.

Banks shall not be altered or disturbed in any way to facilitate crossings. If stream banks are inadvertently disturbed, they shall be immediately stabilized to prevent erosion.

(2) If timber/poles are placed in and adjacent to the stream to create a crossing site, they must be placed in such a way that free passage of fish is assured. In addition, all material shall be completely removed from the streambed and banks at the end of each work season. If needed, the streambed shall be recontoured to assure that "trenches" are not left that will trap fish at low-water levels.

(3) Vehicle crossings shall be limited to only what is necessary to accomplish work.

(4) No damming or diversions are permitted.

The permittee is responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved plan. For any activity that significantly deviates from the approved plan, the permittee shall notify the ADF&G and obtain written approval in the form of a permit amendment before beginning the activity. Any action taken by the permittee, or an agent of the permittee, that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the ADF&G. Therefore, it is recommended that the ADF&G be consulted immediately when a deviation from the approved plan is being considered.

This letter constitutes a permit issued under the authority of AS 16.05.841. This permit must be retained on site during construction. Please be advised that this approval does not relieve you of the responsibility of securing other permits, state, federal or local.

This permit provides reasonable notice from the commissioner that failure to meet its terms and conditions constitutes violation of AS 16.05.861; no separate notice under AS 16.05.861 is required before citation for violation of AS 16.05.841 can occur.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The department reserves the right to require mitigation measures to correct disruption to fish and game created by the project and which were a direct result of the failure to comply with this permit or any applicable law.

The recipient of this permit (permittee) shall indemnify, save harmless, and defend the department, its agents and its employees from any and all claims, actions or liabilities for

injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or the permittee's performance under this permit. However, this provision has no effect, if, and only if, the sole proximate cause of the injury is the department's negligence.

Sincerely,

Denby S. Lloyd, Commissioner

BY: Robert F. "Mac" McLean, Regional Supervisor
Habitat Division

cc: Chris Milles, ADNR, Fairbanks
Ann Rappoport, USFWS, Anchorage
Jeanne Hanson, NMFS, Anchorage

RFM:mac

STATE OF ALASKA

SARAH PALIN, GOVERNOR

1300 COLLEGE RD.
FAIRBANKS, AK 99701
PHONE: (907) 459-7289
FAX: (907) 459-7303

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

FISH HABITAT PERMIT
FH09-III-0103

ISSUED: April 22, 2009
EXPIRES: December 31, 2014

Ms. Molly Welker
Bristol Environmental and Engineering Services Corporation
111 W. 16th Ave., Third Floor
Anchorage, AK 99501-5109

Dear Ms. Welker:

RE: Bridge Repair, Northeast Cape White Alice Site Removal Action (St. Lawrence Island); T25S, R54W, Suqitughneq River; SID AK0203-17AA

Pursuant to AS 16.05.841, the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed your proposal to place riprap or conduct maintenance activities in the Suqitughneq River (on St. Lawrence Island) to protect the bridge abutments. ADF&G received your request via email on April 17, 2009. Your original request was received on March 19, 2002 with a more detailed description received via email on April 3, 2002. The original activity was permitted under Fish Habitat Permit FG02-III-0072 which expired December 31, 2005.

Your original proposed project entailed placing approximately 15 cubic yards of riprap at the base of the abutments of the bridge crossing the Suqitughneq River each work season (two work seasons are anticipated). An excavator, operating from the deck of the bridge, will place the riprap. The current proposed work will included any necessary repairs but will not exceed the original footprint and scope of work.

The Suqitughneq River supports anadromous Dolly Varden (and possibly whitefish) and resident fish (e.g., Alaska blackfish) in the area of your proposed activity. Based upon our review of your plans, your proposed project should not obstruct the efficient passage and movement of fish.

In accordance with AS 16.05.841, project approval is hereby given subject to the following stipulations:

(1) Banks shall not be altered or disturbed in any way. If stream banks are inadvertently disturbed, they shall be immediately stabilized to prevent erosion.

(2) "End-dumping" riprap is prohibited. Riprap shall be strategically placed to prevent excess rock in the streambed.

The permittee is responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved plan. For any activity that significantly deviates from the approved plan, the permittee shall notify the ADF&G and obtain written approval in the form of a permit amendment before beginning the activity. Any action taken by the permittee, or an agent of the permittee, that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the ADF&G. Therefore, it is recommended that the ADF&G be consulted immediately when a deviation from the approved plan is being considered.

This letter constitutes a permit issued under the authority of AS 16.05.841. This permit must be retained on site during construction. Please be advised that this approval does not relieve you of the responsibility of securing other permits, state, federal or local.

This permit provides reasonable notice from the commissioner that failure to meet its terms and conditions constitutes violation of AS 16.05.861; no separate notice under AS 16.05.861 is required before citation for violation of AS 16.05.841 can occur.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The department reserves the right to require mitigation measures to correct disruption to fish and game created by the project and which were a direct result of the failure to comply with this permit or any applicable law.

The recipient of this permit (permittee) shall indemnify, save harmless, and defend the department, its agents and its employees from any and all claims, actions or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or the permittee's performance under this permit. However, this provision has no effect, if, and only if, the sole proximate cause of the injury is the department's negligence.

Sincerely,

Denby S. Lloyd, Commissioner

BY: Robert F. "Mac" McLean, Regional Supervisor
Habitat Division
Alaska Department of Fish and Game

cc: Chris Milles, ADNR, Fairbanks
Ann Rappoport, USFWS, Anchorage
Jeanne Hanson, NMFS, Anchorage

RFM:mac

STATE OF ALASKA

SARAH PALIN, GOVERNOR

1300 COLLEGE RD.
FAIRBANKS, AK 99701
PHONE: (907) 459-7289
FAX: (907) 459-7303

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

FISH HABITAT PERMIT
FH09-III-0103
Amendment #1

ISSUED: April 22, 2009
AMENDMENT #1 ISSUED: June 5, 2009
EXPIRES: December 31, 2014

Ms. Molly Welker
Bristol Environmental and Engineering Services Corporation
111 W. 16th Ave., Third Floor
Anchorage, AK 99501-5109

Dear Ms. Welker:

RE: Bridge Repair, Northeast Cape White Alice Site Removal Action (St. Lawrence Island); T25S, R54W, Suqitughneq River; SID AK0203-17AA

Pursuant to AS 16.05.841, the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed Ms. Susan Luetters' email request, dated June 4, 2009, to amend Fish Habitat Permit FH09-III-0103 to authorize withdrawal of up to 3,000 gallons per day of water from the Suqitughneg River (180,000 gallons per season). Water will be withdrawn with a 4-inch diameter pump at a rate of 35 gpm. Proposed season of use is July 15, 2009 to September 15, 2009.

In accordance with AS 16.05.841, Fish Habitat Permit FH09-III-0103 is hereby amended subject to the following stipulation:

(1) In fish bearing waters, pump intakes or stream diversions shall be designed to prevent intake, impingement, or entrapment of fish. Each water intake structure shall be centered in a screened enclosure. The effective screen opening may not exceed ¼ inch. To reduce fish impingement on the screened surfaces, water velocity at the screen/water interface may not exceed 0.5 feet per second when the pump is operating.

NOTE: Due the small water withdrawal rate, the simplest manner to achieve compliance with this stipulation is to perforate the lower third of a 5-gallon plastic bucket with a large

number of ¼-inch holes, place some large rock in the bucket to keep it submerged, and then place the intake hose (presumably with a small rock chuck) in the bucket.

All other terms and conditions of FH09-III-0103 remain in effect.

Sincerely,

Denby S. Lloyd, Commissioner

BY: Robert F. "Mac" McLean, Regional Supervisor
Habitat Division
Alaska Department of Fish and Game

cc: Chris Milles, ADNR, Fairbanks
Ann Rappoport, USFWS, Anchorage
Jeanne Hanson, NMFS, Anchorage

RFM:mac

From: Luetters, Susan
To: James, Russell
Cc: USACE NE Cape PM - Valerie Palmer
Subject: NE Cape 2014 - DNR - MLW - Tidelands Ltr of Entry 2014
Date: Thursday, April 24, 2014 1:38:30 PM

Hi Russell,

Here is the approval for the Tidelands Right of Entry. A copy has been saved to the electronic project file and a hard copy in the project binder in my office.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013
Direct : (907) 743-9316

From: Sackinger, Robert B (DNR) [mailto:robert.sackinger@alaska.gov]
Sent: Thursday, April 24, 2014 11:56 AM
To: Luetters, Susan
Cc: Leinberger, Dianna L (DNR); Burns, Patty A (DNR)
Subject: RE: NE Cape 2014

Susan,

You may operate under the existing letter of entry for 2014. Please let me know next year if additional activity is expected to occur in the 2015 season.

Best Regards,

R. Bruce Sackinger
Natural Resource Specialist III
State of Alaska, Department of Natural Resources
Division of Mining, Land & Water, Northern Regional Office
(907) 451-2720
bruce.sackinger@alaska.gov

From: Luetters, Susan [mailto:sluetters@bristol-companies.com]
Sent: Tuesday, April 22, 2014 4:25 PM
To: Sackinger, Robert B (DNR)
Cc: James, Russell; USACE NE Cape PM - Valerie Palmer
Subject: RE: NE Cape 2014

Hello Bruce,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in mid-June. I have included the email string from the past couple of years, and as attachments the original Permit letter from 2009 which was valid through 2013 along with the current year's project description. Conditions surrounding the request remain unchanged from the past five years. Are we still good to go?

If you require any additional information please call/email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013
Direct : (907) 743-9316

From: Sackinger, Robert B (DNR) [mailto:robert.sackinger@alaska.gov]
Sent: Tuesday, March 12, 2013 9:24 AM
To: Luetters, Susan
Subject: RE: NE Cape 2013

Susan,

The previous letter of entry authored by Dianna Leinberger remains valid for 2013. However, please let me know next year if additional activity is expected to occur in the 2014 season.

Best Regards,

R. Bruce Sackinger
Natural Resource Specialist III
State of Alaska, Department of Natural Resources
Division of Mining, Land & Water, Northern Regional Office
(907) 451-2720
bruce.sackinger@alaska.gov

.

From: Luetters, Susan [mailto:sluetters@bristol-companies.com]
Sent: Monday, March 11, 2013 5:26 PM
To: Sackinger, Robert B (DNR)
Cc: Jarrell, Greg; James, Russell; Floyd, Christopher B POA
Subject: NE Cape 2013

Hi Robert,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in mid -June. I have included the email string from the past couple of years, and as attachments the original Permit letter and the current year's project description. Conditions surrounding the request remain unchanged from the past four years. Are we still good to go?

If you require any additional information please call/email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation

Phone : (907) 563-0013

From: Luetters, Susan
Sent: Wednesday, April 11, 2012 3:20 PM
To: 'Leinberger, Dianna L (DNR)'
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: RE: NE Cape 2012

Hi Dianna,

It is that time of year again. Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again. I have included the email string from the past couple of years, and as attachments the original Permit letter and the current year's project description. Conditions surrounding the request remain unchanged from the past three years. Are we still good to go?

If you require any additional information please call/email me.

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Leinberger, Dianna L (DNR) [mailto:dianna.leinberger@alaska.gov]
Sent: Thursday, April 21, 2011 1:31 PM
To: Luetters, Susan
Subject: RE: NE Cape

Susan,

The letter is still valid. I'll note in the file that clean up is still ongoing.

-Dianna

Dianna Leinberger
Department of Natural Resources
Division of Mining, Land & Water
Northern Region Lands Section - Permits & Easements
907-451-3014

From: Luetters, Susan [mailto:sluetters@bristol-companies.com]
Sent: Thursday, April 21, 2011 12:41 PM
To: Leinberger, Dianna L (DNR)
Subject: FW: NE Cape

Trying this one more time.

Susan Luetters
Senior Environmental Scientist

Phone : (907) 563-0013

From: Luetters, Susan
Sent: Thursday, April 21, 2011 12:33 PM
To: 'dainna.leinberger@alaska.gov'
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: FW: NE Cape

Hi Dianna,

It is that time of year again . . . As per below we are ramping up for the 2011 season out at NE Cape conditions surrounding the request are the same as 2009 and 2010. Are we good to go?

Susan Luetters
Senior Environmental Scientist
Phone : (907) 563-0013

From: Luetters, Susan
Sent: Tuesday, February 23, 2010 1:19 PM
To: 'dianna.leinberger@alaska.gov'
Subject: FW: NE Cape

From: Luetters, Susan
Sent: Tuesday, February 23, 2010 10:11 AM
To:
Cc: Welker, Molly; Floyd, Christopher B POA
Subject: NE Cape

Hi Dianna,

As per the attached, Bristol Environmental Remediation Services will be going back to Northeast Cape at the request of the USACE to continue the environmental remediation of the Formerly Used Defense Site. Included in this transmission is your 2009 “Letter of Entry for State tidelands within Kitnagak Bay, Saint Lawrence Island” For the purpose of accessing NE Cape for a Formerly Used Defense Site Cleanup and a Native American Lands Environmental Mitigation Program Project.

The conditions that surrounded the issuance of this Letter of Entry will not be changing for the 2010 season; therefore, do we need to re-request this authorization for the 2010 season or will the 2009 letter extend to cover this season since there is no expiration date on the authorization?

Thank you for your attention to this matter and we look forward to your response.

Sincerely,

Susan Luetters
Senior Environmental Scientist
Bristol Environmental & Engineering Services Corporation
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
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From:	Jon Kurland - NOAA Federal
To:	Luetters, Susan
Cc:	Jarrell, Greg; James, Russell; Floyd, Christopher B POA; Lisa Rotterman - NOAA Federal
Subject:	Re: St. Lawrence Island: NE Cape Cleanup 2013
Date:	Monday, March 11, 2013 8:12:49 PM

There have been no changes relative to Steller sea lions and the same caveats still apply. Thanks.

On Mon, Mar 11, 2013 at 5:22 PM, Luetters, Susan <sluetters@bristol-companies.com> wrote:

> Though the date was incorrect in the subject line, the information contained therein was and is current.
>
> **Susan Luetters**
> Senior Environmental Scientist
> Bristol Engineering Services Corporation
> Phone : (907) 563-0013
>
> ---
>
> **From:** Luetters, Susan
> **Sent:** Monday, March 11, 2013 5:01 PM
> **To:** 'Jon.Kurland@noaa.gov'
> **Cc:** Jarrell, Greg; James, Russell
> **Subject:** RE: St. Lawrence Island: NE Cape Cleanup 2012
>
> Good Afternoon Jon,
>
> Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in mid-June, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on, the island.
>
> The email string associated with this transmission is the correspondence between your office and ours beginning in 2010.
>
> We would appreciate it if you would please verify that the original letter, as it stands, is still valid. For your information I have attached the current Project Description and the original 2009 correspondence between our office and yours regarding marine species of concern to NOAA-NMFS.

Thank you for your time and attention to this matter, and if you have any questions please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013

From: Dana Seagars [mailto:dana.seagars@noaa.gov]
Sent: Wednesday, April 11, 2012 4:34 PM
To: Luetters, Susan
Cc: Welker, Molly; Jon Kurland
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2012

Hi Susan:

There have been no changes on the Steller sea lion front since last year, so yes, the letter is still valid.

Please adjust your contact for Assistant Administrator of Protected Resources from Kaja Brix to Jon Kurland effective immediately. Jon's email is Jon.Kurland@noaa.gov and his phone number in Juneau is 907-586-7638.

Thank you, Dana Seagars

On Wed, Apr 11, 2012 at 3:10 PM, Luetters, Susan <sluetters@bristol-companies.com> wrote:

Hi Dana,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in June, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on, the island.

The email string associated with this transmission is the correspondence between your office and ours beginning in 2010.

We would appreciate it if you would please verify that the original letter, as it stands, is still valid. For your information I have attached the current Project Description and the original 2009 correspondence between our office and yours regarding marine species of concern to NOAA-NMFS.

Thank you for your time and attention to this matter, and if you have any questions

please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]
Sent: Thursday, April 28, 2011 2:30 PM
To: Luetters, Susan
Cc: Welker, Molly; Brad Smith; Kaja Brix; Kim Rivera; Lisa Rotterman
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2011

Susan:
As we discussed on the phone today, I have gone back and again reviewed the correspondence on this subject and find that given your organization is simply continuing to proceed with the project location (land) and approach (via the beach far from known Steller sea lion haulouts or rookeries) as previously described, the National Marine Fisheries Service continues to concur with the conclusions and recommendations stated in our prior correspondence (June 29, 2009) on the project.
However, as I mentioned today, and as noted in the prior letter from Kaja Brix to Guy McConnell our information concerning possible Steller sea lion use of St. Lawrence Island is scant and somewhat dated. Thus, if for any reason ACOE staff or contractors observe or encounter Steller sea lions within the project area, we request operations immediately cease and that ACOE staff contact our office to reinitiate consultation.

Good luck in completing your project this year. Thank you for your patience in obtaining this information from our agency.
Sincerely,
Dana J. Seagars

On 4/21/2011 1:40 PM, Luetters, Susan wrote:

Hi Dana,

Bristol Environmental Remediation Services (BERS)will be heading out to North East Cape again this year in early July, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on the island.

The email string associated with this transmission is the correspondence between you and Eric Lindeen last year (2010) regarding the work proposed and completed during the 2010 field season. The attachments include a copy of the 2009 "no effect on Federally listed species letter" signed by Kaja Brix, and a project description for this year's proposed work.

We would appreciate it if you would please verify that the original letter, as it stands, is still valid.

Thank you for your time and attention to this matter, and if you have any questions please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Lindeen, Eric
Sent: Thursday, May 13, 2010 11:17 AM
To: Luetters, Susan; Welker, Molly
Subject: FW: FW: St. Lawrence Island: NE Cape Cleanup

Here is the concurrence from NOAA-NMFS on prior correspondence regarding NE Cape.

Thanks.

Eric M. Lindeen
Environmental Scientist
Phone : (907) 563-0013

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]
Sent: Thursday, May 13, 2010 11:07 AM
To: Lindeen, Eric

Cc: Brad Smith; Kaja Brix
Subject: Re: FW: St. Lawrence Island: NE Cape Cleanup

Eric:
As we discussed on the phone today, I have reviewed the correspondence on this subject and find that given your organization is simply continuing to proceed with the project as previously described for last year, the National Marine Fisheries Service continues to concur with the conclusions and recommendations stated in our prior correspondence (June 29, 2009) on the project. However, as noted in the prior letter from Kaja Brix to Guy McConnell "our information concerning possible Steller sea lion use of St. Lawrence Island is scant and somewhat dated. Thus, if for any reason ACOE staff or contractors observe or encounter Steller sea lions within the project area, we request operations immediately cease and that ACOE staff contact our office to reinitiate consultation."

Good luck in completing your project this year. Thank you for your patience in obtaining this information from our agency.
Sincerely,
Dana J. Seagars

Lindeen, Eric wrote:

Dana,

Here is the 2010 Project Description, figures and the 2009 NOAA-NMFS

Letter for your reference. Thanks for your time and attention.

Best,

Eric

Eric Lindeen

Environmental Scientist

(907) 563-0013

-----Original Message-----

From: Lindeen, Eric

Sent: Tuesday, March 02, 2010 12:23 PM

To: 'Dana Seagars'

Subject: RE: St. Lawrence Island: NE Cape Cleanup

Dana,

Attached is 2010 Project Description, along with the vicinity map and site layout map, in addition to the 2009 NOAA-NMFS Letter. Again, the landing craft will access St. Lawrence Island in the same location as 2009. Thanks again.

-Eric

Eric Lindeen

Environmental Scientist

(907) 563-0013

-----Original Message-----

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]

Sent: Tuesday, March 02, 2010 12:17 PM

To: Lindeen, Eric

Subject: Re: St. Lawrence Island: NE Cape Cleanup

Eric:

Would you please attach the previous NMFS concurrence for my reference?

Much obliged, Dana Seagars

Lindeen, Eric wrote:

Mr. Seagars,

Bristol Environmental Remediation Services, along with the U.S. Army

Corps of Engineers, is planning the continuation of the 2009 cleanup

of Formerly Used Defense Sites (FUDS) at Northeast Cape on St.

Lawrence Island in 2010. We received NOAA concurrence that the

project would have no effect of Federally listed species on June 29,

2009, along with 2 designated critical habitat areas on Sou8th Punuk

Island and at SW Cape on St. Lawrence Island. Because the landing

craft will access St. Lawrence Island at the same location as last

year, at Kitnagak Bay which is approximately 19 miles away from the

nearest designated critical habitat, will your concurrence of 2009

remain valid for the cleanup project?

Thank you for your time and attention

Eric M. Lindeen

Environmental Scientist

Bristol Environmental & Engineering Services Corporation

111 W.16th Avenue, Third Floor

Anchorage, AK 99501-5109

Phone : (907) 563-0013

FAX : (907) 563-6713

elindeen@bristol-companies.com <mailto:elindeen@bristol-companies.com>

http://www.bristol-companies.com/

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--
Dana J Seagars

Protected Resources AKR

907-271-5005

--
Dana J Seagars

Protected Resources AKR

907-271-5005

James, Russell

From: Jon Kurland - NOAA Federal <jon.kurland@noaa.gov>
Sent: Wednesday, March 26, 2014 5:20 PM
To: Luetters, Susan
Cc: James, Russell; Lisa Rotterman - NOAA Federal; USACE NE Cape PM - Valerie Palmer
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2014

Still no changes, and the same caveats still apply. If you encounter sea lions you should contact our office. Thanks.

On Wed, Mar 26, 2014 at 4:49 PM, Luetters, Susan <sluetters@bristol-companies.com> wrote:

Good Afternoon Jon,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in July, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on, the island.

The email string associated with this transmission is the correspondence between your office and ours beginning in 2010.

We would appreciate it if you would please verify that the original letter, as it stands, is still valid. For your information I have attached the current Project Description and the original 2009 correspondence between our office and yours regarding marine species of concern to NOAA-NMFS.

Thank you for your time and attention to this matter, and if you have any questions please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013
Direct : (907) 743-9316

From: Jon Kurland - NOAA Federal [mailto:jon.kurland@noaa.gov]
Sent: Monday, March 11, 2013 8:13 PM
To: Luetters, Susan
Cc: Jarrell, Greg; James, Russell; Floyd, Christopher B POA; Lisa Rotterman - NOAA Federal
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2013

There have been no changes relative to Steller sea lions and the same caveats still apply. Thanks.

On Mon, Mar 11, 2013 at 5:22 PM, Luetters, Susan <sluetters@bristol-companies.com> wrote:

Though the date was incorrect in the subject line, the information contained therein was and is current.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013

From: Luetters, Susan
Sent: Monday, March 11, 2013 5:01 PM
To: 'Jon.Kurland@noaa.gov'
Cc: Jarrell, Greg; James, Russell
Subject: RE: St. Lawrence Island: NE Cape Cleanup 2012

Good Afternoon Jon,

Bristol Environmental Remediation Services (BERS) will be heading out to North East Cape again this year in mid-June, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on, the island.

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Thank you for your time and attention to this matter, and if you have any questions please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Engineering Services Corporation
Phone : (907) 563-0013

From: Dana Seagars [mailto:dana.seagars@noaa.gov]
Sent: Wednesday, April 11, 2012 4:34 PM
To: Luetters, Susan
Cc: Welker, Molly; Jon Kurland
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2012

Hi Susan:

There have been no changes on the Steller sea lion front since last year, so yes, the letter is still valid.

Please adjust your contact for Assistant Administrator of Protected Resources from Kaja Brix to Jon Kurland effective immediately. Jon's email is Jon.Kurland@noaa.gov and his phone number in Juneau is 907-586-7638.

Thank you, Dana Seagars

On Wed, Apr 11, 2012 at 3:10 PM, Luetters, Susan <sluetters@bristol-companies.com> wrote:

Hi Dana,

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Thank you for your time and attention to this matter, and if you have any questions please call or email me.

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]
Sent: Thursday, April 28, 2011 2:30 PM
To: Luetters, Susan
Cc: Welker, Molly; Brad Smith; Kaja Brix; Kim Rivera; Lisa Rotterman
Subject: Re: St. Lawrence Island: NE Cape Cleanup 2011

Susan:
As we discussed on the phone today, I have gone back and again reviewed the correspondence on this subject and find that given your organization is simply continuing to proceed with the project location (land) and approach (via the beach far from known Steller sea lion haulouts or rookeries) as previously described, the National Marine Fisheries Service continues to concur with the conclusions and recommendations stated in our prior correspondence (June 29, 2009) on the project.
However, as I mentioned today, and as noted in the prior letter from Kaja Brix to Guy McConnell our information concerning possible Steller sea lion use of St. Lawrence Island is scant and somewhat dated. Thus, if for any reason ACOE staff or contractors observe or encounter Steller sea lions within the project area, we request operations immediately cease and that ACOE staff contact our office to reinitiate consultation.

Good luck in completing your project this year. Thank you for your patience in obtaining this information from our agency.
Sincerely,
Dana J. Seagars

On 4/21/2011 1:40 PM, Luetters, Susan wrote:

Hi Dana,

Bristol Environmental Remediation Services (BERS)will be heading out to North East Cape again this year in early July, and we are checking in with NOAA-NMFS to reaffirm our compliance with existing reg.'s as it pertains to our work getting to, and while on the island.

The email string associated with this transmission is the correspondence between you and Eric Lindeen last year (2010) regarding the work proposed and completed during the 2010 field season. The attachments include a copy of the 2009 "no effect on Federally listed species letter" signed by Kaja Brix, and a project description for this year's proposed work.

We would appreciate it if you would please verify that the original letter, as it stands, is still valid.

Thank you for your time and attention to this matter, and if you have any questions please call or email m

Susan Luetters
Senior Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
Direct : (907) 743-9316
FAX : (907) 563-6713
sluetters@bristol-companies.com
http://www.bristol-companies.com/

From: Lindeen, Eric
Sent: Thursday, May 13, 2010 11:17 AM
To: Luetters, Susan; Welker, Molly
Subject: FW: FW: St. Lawrence Island: NE Cape Cleanup

Here is the concurrence from NOAA-NMFS on prior correspondence regarding NE Cape.

Thanks.

Eric M. Lindeen
Environmental Scientist
Phone : (907) 563-0013

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]
Sent: Thursday, May 13, 2010 11:07 AM
To: Lindeen, Eric
Cc: Brad Smith; Kaja Brix
Subject: Re: FW: St. Lawrence Island: NE Cape Cleanup

Eric:
As we discussed on the phone today, I have reviewed the correspondence on this subject and find that given your organization is simply continuing to proceed with the project as previously described for last year, the National Marine Fisheries Service continues to concur with the conclusions and recommendations stated in our prior correspondence (June 29, 2009) on the project. However, as noted in the prior letter from Kaja Brix to Guy McConnell "our information concerning possible Steller sea lion use of St. Lawrence Island is scant and somewhat dated. Thus, if for any reason ACOE staff or contractors observe or encounter Steller sea lions within the project area, we request operations immediately cease and that ACOE staff contact our office to reinitiate consultation."

Good luck in completing your project this year. Thank you for your patience in obtaining this information from our agency.
Sincerely,
Dana J. Seagars

Lindeen, Eric wrote:

Dana,

Here is the 2010 Project Description, figures and the 2009 NOAA-NMFS

Letter for your reference. Thanks for your time and attention.

Best,

Eric

Eric Lindeen

Environmental Scientist

(907) 563-0013

-----Original Message-----

From: Lindeen, Eric

Sent: Tuesday, March 02, 2010 12:23 PM

To: 'Dana Seagars'

Subject: RE: St. Lawrence Island: NE Cape Cleanup

Dana,

Attached is 2010 Project Description, along with the vicinity map and site layout map, in addition to the 2009 NOAA-NMFS Letter. Again, the landing craft will access St. Lawrence Island in the same location as 2009. Thanks again.

-Eric

Eric Lindeen
Environmental Scientist

(907) 563-0013

-----Original Message-----

From: Dana Seagars [mailto:Dana.Seagars@noaa.gov]

Sent: Tuesday, March 02, 2010 12:17 PM

To: Lindeen, Eric

Subject: Re: St. Lawrence Island: NE Cape Cleanup

Eric:

Would you please attach the previous NMFS concurrence for my reference?

Much obliged, Dana Seagars

Lindeen, Eric wrote:

> Mr. Seagars,
>
> Bristol Environmental Remediation Services, along with the U.S. Army Corps of Engineers, is planning the continuation of the 2009 cleanup of Formerly Used Defense Sites (FUDS) at Northeast Cape on St. Lawrence Island in 2010. We received NOAA concurrence that the project would have no effect of Federally listed species on June 29, 2009, along with 2 designated critical habitat areas on Sou8th Punuk Island and at SW Cape on St. Lawrence Island. Because the landing craft will access St. Lawrence Island at the same location as last year, at Kitnagak Bay which is approximately 19 miles away from the nearest designated critical habitat, will your concurrence of 2009

remain valid for the cleanup project?

Thank you for your time and attention

Eric M. Lindeen
Environmental Scientist
Bristol Environmental & Engineering Services Corporation
111 W.16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713

elindeen@bristol-companies.com <mailto:elindeen@bristol-companies.com>

http://www.bristol-companies.com/

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--
Dana J Seagars

Protected Resources AKR

907-271-5005

--
Dana J Seagars

Protected Resources AKR

907-271-5005

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
WASTEWATER DISCHARGE AUTHORIZATION PROGRAM

SEAN PARNELL, GOVERNOR
555 Cordova
Anchorage, Alaska 99501-2617
PHONE: (907) 269-6285
FAX: (907) 334-2415

11/4/2011 4:26:49 PM

Company: Bristol Environmental Remediation Service:
ATTN: Steve Johnson
111 W. 16th Avenue, Third Floor
Anchorage AK 99501

Facility:
Northeast Cape HTRW Remedial Actions
Main Operations Complex, Site 13, Site 31 NE Ca
Savoonga, Northeast Ca AK 99769

Permit Number: AKR10DV41

This email/letter acknowledges that you have submitted a Notice of Intent form to be covered under the APDES General Permit for Stormwater Discharges for Construction General Permit Activity (Construction General Permit). The permittee is authorized to discharge storm water under the terms and conditions of this permit seven (7) calendar days after acknowledgment of receipt of the permittee's completed NOI is posted on ADEC's Storm Water Permit Search website (http://www.dec.state.ak.us/water/WaterPermitSearch/Search.aspx). Coverage under this permit begins seven-days from the "Date Issued" on the Water Permit Search.

As stated above, this letter acknowledges receipt of a Notice of Intent. However, it is not an ADEC determination of the validity of the information you provided. Your eligibility for coverage under the Permit is based on the validity of the certification you provided. Your signature on the Notice of Intent certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you correctly determine whether you are eligible for coverage under this permit.

As you know, the Construction General Permit requires you to have developed and begun implementing a Stormwater Pollution Prevention Plan (SWPPP) and outlines important inspection and record keeping requirements. You must also comply with any additional location-specific requirements applicable to Alaska. A copy of the Construction General Permit must be kept with your SWPPP. An electronic copy of the Permit and additional guidance materials can be viewed and downloaded at http://www.dec.state.ak.us/water/wnpspc/stormwater/index.htm.

For tracking purposes, the following number has been assigned to your Notice of Intent Form: AKR10DV41.

If you have general questions regarding the stormwater program or your responsibilities under the Construction General Permit, please call Greg Drzewiecki at (907) 269-7692. Thank you for using the ADEC eNOI system.

For Agency Use
Permit # AKR10DV41

Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity Under an APDES Construction General Permit

Submission of this Notice of Intent (NOI) constitutes notice that the party identified in Section I of this form requests authorization to discharge pursuant to the APDES Construction General Permit (CGP). Submission of this NOI also constitutes notice that the party identified in Section II of this form meets the eligibility requirements of the CGP for the project identified in Section IV of this form. Permit coverage is required prior to commencement of construction activity until you are eligible to terminate coverage as detailed in the CGP. To obtain authorization, you must submit a complete and accurate NOI form. Refer to the instructions at the end of this form.

I. Single/Multiple NOI Project

Is this NOI for a project with a single NOI? ☑ Yes ☐ No

If "No," then your project has multiple NOIs, will the fee be paid with this NOI? ☐ Yes ☐ No ☐ Not Applicable

If "No," then enter the name of the operator paying the fee:

II. Operator Information

Organization: Bristol Environmental Remediation Services, LLC

Contact Person: Steve Johnson

Mailing Address:

Street (PO Box): 111 W. 16th Avenue, Third Floor

City: Anchorage State: AK Zip: 99501

Phone: 907-563-0013 Fax(optional):

Email:

III. Billing Contact Information

Organization: Bristol Environmental Remediation Services, LLC

Contact Person: Molly Welker

Mailing Address:

[ ] Check if same as Operator Information.

Street (PO Box): 111 W. 16th Avenue, Third Floor

City: Anchorage State: AK Zip: 99501

Phone: 907-563-0013 Fax(optional):

Email:

IV. Project/Site Information

Project/Site Name: Northeast Cape HTRW Remedial Actions

Project Street/Location: Main Operations Complex, Site 13, Site 31 NE Cape

City: Savoonga, Northeast Cape, St. Lawrence Is. State: AK Zip: 99769

Borough or similar government subdivision: Nome

Latitude: 63.312 Longitude: -168.957

Determined By: ☐ GPS ☐ USGS topographic map ☑ Other: Google Maps

If you used a USGS topographic map, what was the scale?

For Agency Use
Permit # AKR10DV41

Estimated Project Start Date: 6/26/2011	Estimated Project Completion Date: 9/14/2012
Estimated Area to be Disturbed (to the nearest quarter acre): 1	
Have storm water discharges from your project/site been covered previously under an EPA or DEC issued permit?	☑ Yes ☐ No
If "Yes", provide the Tracking Number for the coverage under a previous EPA or DEC permit: AKR10DL58	
If "Yes," have you updated your SWPPP according to the 2011 Alaska Construction General Permit?	☑ Yes ☐ No

V. SWPPP (Storm Water Pollution Prevention Plan)

Has the SWPPP been prepared in advance of filing this NOI?	☑ Yes	☐ No	
Location of SWPPP for Viewing:	☐ Address in Section II	☑ Address in Section IV	☐ Other
If other:	SWPPP Street:		
	City:	State: AK	Zip:
	SWPPP Contact Information (if different than that in Section I):		
	Name: Charles Croley		
	Phone: 907-563-0013	Fax(optional):	
	Email:		

VI. Discharge Information

Identify the name(s) of waterbodies to which you discharge:

NA

Is this discharge consistent with the assumptions and requirements of applicable EPA approved or established TMDL(s)?	☑ Yes ☐ No

VII. Treatment Chemicals

Will you use control measures such as polymers, flocculants or other treatment chemicals at your construction site?	☐ Yes ☑ No

NOTE: If you are unsure at the filing of the NOI, check "No" and then if you use treatment chemicals file an NOI Modification form indicating "Yes".

If "Yes," indicate the following polymers, flocculants or other treatment chemicals that will be used at your construction site:	☐ Alum	☐ Gypsum
	☐ Polyacrylamide (PAM)	☐ Polyaluminum Chloride
	☐ Other:	

VIII. Certification Information	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Printed Name: Steve Johnson	Title: CEO
Signature: Steve Johnson	Date: 11/4/2011 4:26:49 PM Email:
NOI Preparer (Complete if NOI was prepared by someone other than the certifier)	
Prepared By: Derek Tannahill	
Organization: Bristol Engineering Services Corp.	
Phone: 907-563-0013	Email:

Instructions for Completing a Notice of Intent (NOI) Form for Storm Water Discharges Associated with Construction Activity Under an APDES Construction General Permit.

Who Must File an NOI Form:
Operators of construction sites where one or more acres are disturbed, smaller sites that are part of a larger common plan of development or sale where there is a cumulative disturbance of at least one acre, or any other site specifically designated by the Director, must submit an NOI to obtain coverage under an APDES construction general permit. Each person, firm, public organization, or any other entity that meets either of the following criteria must file this form: (1) they have operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or (2) they have day-to-day operational control of those activities at the project necessary to ensure compliance with SWPPP requirements or other permit conditions.

Completing the Form
Obtain and read a copy of the APDES Construction General Permit. Type or print, in the appropriate areas only. "NA" can be entered in areas that are not applicable. If you have any questions about how or when to use this form, contact the ADEC Storm Water Program at (907) 269-6285 or online at http://www.dec.state.ak.us/water/wnpspc/stormwater/.

Section I. Single/Multiple NOI Project:

Indicate whether or not this is a single NOI project. If not, indicate if the fee will be paid with this NOI or another associated with this project. Provide the name of the operator that will be paying the fee.

Section II. Operator Information:
Provide the name of the contact person, and the legal name of the firm, public organization, or any other entity that operates the project described in this application. An operator of a project is a legal entity that controls at least a portion of site operations and is not necessarily the site manager. Also provide the operator's mailing address, telephone number, fax number (optional) and e-mail address (to be notified via e-mail of NOI approval when available). Correspondence for the NOI will be sent to this address.

Section III. Billing Contact Information
Provide the name of the contact person, and the legal name of the firm, public organization, or any other entity that is responsible for accounts payable for this project. Also provide the billing contact's mailing address, telephone number, fax number (optional) and email address. Correspondence for billing purposes will be sent to this address. If the billing contact is that same as the operator, check the box and continue to Section IV Project/Site Information.

Section IV. Project/Site Information:
Enter the official or legal name and complete street address, including city, state, zip code, and county or similar government subdivision of the project or site. If the project or site lacks a street address, indicate the general location of the site (e.g., Intersection of State Highways 61 and 34). Complete site information must be provided for permit coverage to be granted.

The applicant must also provide the latitude and longitude of the facility either in degrees, minutes, seconds; degrees, minutes, decimal; or decimal format. The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers, U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps, and EPA's web-based siting tools, among others. Refer to www.epa.gov/npdes/stormwater/cgp for further guidance on the use of these methodologies. For consistency, ADEC requests that measurements be taken from the approximate center of the construction site. Applicants must specify which method they used to determine latitude and longitude. If a U.S.G.S. topographic map is used, applicants are required to specify the scale of the map used.

Enter the estimated construction start and completion dates using four digits for the year (i.e., 05/27/2009).

Enter the estimated area to be disturbed including but not limited to: grubbing, excavation, grading, and utilities and infrastructure installation. Indicate to the nearest quarter acre. Note: 1 acre = 43,560 sq. ft.

Indicate whether or not the project/site has been previously covered by an EPA or DEC permit. If "Yes" provide the tracking number of the permit or authorization that the project/site was covered under.

If this is a project that was covered under a previous EPA or DEC construction general permit indicate whether or not the SWPPP has been updated in accordance with the 2011 Alaska Construction General Permit.

Section V. SWPPP (Storm Water Pollution Prevention Plan) Information:
Indicate whether or not the SWPPP was prepared in advance of filing the NOI form. Check the appropriate box for the location where the SWPPP may be viewed. Provide the name, fax number (optional), and e-mail address of the contact person if different than that listed in Section I of the NOI form.

Section VI. Discharge Information:
Enter the name(s) of receiving water bodies to which the project's storm water will discharge. These should be the first bodies of water that the discharge will reach. (Note: If you discharge to more than one water body, please indicate all such waters in the space provided and attach a separate sheet if necessary.) For example, if the discharge leaves your site and travels through a roadside swale or a storm sewer and then enters a stream that flows to a river, the stream would be the receiving water body. Waters of the U.S. include lakes, streams, creeks, rivers, wetlands, impoundments, estuaries, bays, oceans, and other surface bodies of water within the confines of the U.S. and U.S. coastal waters. Waters of the U.S. do not include man-made structures created solely for the purpose of wastewater treatment. U.S.G.S. topographical maps may be used to make this determination. If the map does not provide a name, use a format such as "unnamed tributary to Cross Creek". If you discharge into a municipal separate storm sewer system (MS4), you must identify the water body into which that portion of the storm sewer discharges. That information should be readily available from the operator of the MS4.

Indicate whether your storm water discharges from construction activities will be consistent with the assumptions and requirements of applicable EPA approved or established total maximum daily load(s)(TMDL(s)). To answer this question, refer to www.epa.gov/npdes/stormwater/cgp for state- and regional-specific TMDL information related to the construction general permit. You may also have to contact ADEC. If there are no applicable TMDLs or no related requirements, please check the "yes" box in the NOI form.

Section VII. Treatment Chemicals:
Indicate whether or not polymers, flocculants, or other treatment chemicals will be used. If you are unsure at the filing of the NOI, check "No" and then if you use them file an NOI Modification form indicating "Yes".

Check the box next to any treatment chemical that will be used. If "Other" is checked, list the treatment chemicals in the space provided

Section VIII. Certification Information:
The NOIs, must be signed as follows:

(1) For a corporation, a responsible corporate officer shall sign the NOI, a responsible corporate officer means:

(A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other

person who performs similar policy- or decision-making functions for the corporation; or

(B) the manager of one or more manufacturing, production, or operating facilities, if

(i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;

(ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and

(iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or

(3) for a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means

(A) the chief executive officer of the agency; or

(B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, and email address of the person signing the form and the date of signing. An unsigned or undated NOI form will not be considered valid application for permit coverage. If the NOI was prepared by someone other than the certifier (for example, if the NOI was prepared by the facility SWPPP contact or a consultant for the certifier's signature), include the name, organization, telephone number and email address of the NOI preparer.

Where to File NOI form

ADEC encourages you to complete the NOI form electronically via the Internet. ADEC's Online Application System (OASys) can be found at https://myalaska.state.ak.us/dec/water/OASys . Filing electronically is the fastest way to obtain permit coverage and help ensure that your NOI is complete. If you choose not to file electronically, you must send the NOI to the address listed below.

If you file by mail, please submit the original form with a signature in ink. ADEC will not accept a photocopied signature. Remember to retain a copy for your records.

NOIs sent by mail:

Alaska Dept. of Environmental Conservation
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501
Phone: (907) 269-6285

For Agency Use
Permit #_____

Form for Submitting Modifications to a Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity Filed Under an NPDES or APDES General Permit. Mail to ADEC's Storm Water Program (see CGP NOI for mailing address).

Current NOI Information (Please copy content exactly from your NOI. Indicate changes on the next page.)		
I. Permit Tracking Number: AKR10DV41		
II. Operator Information (as it appears on your NOI):		
Organization: Bristol Environmental Remediation Services, LLC	Contact Person: Greg Jarrell	
Street: 111 W. 16th Ave, Third Floor		
City: Anchorage	State: AK	Zip: 99501
Phone: 907-563-0013	Fax (optional): 907-563-6713	
Email: gjarrell@bristol-companies.com		
III. Project/Site Information (as it appears on your NOI):		
Project/Site Name: Northeast Cape HTRW Remedial Actions		
Project Street/Location: Main Operations Complex, Site 13, Site 31 NE Cape		
City: Northeast Cape, St. Lawrence Island	State: AK	Zip: 99769
Borough or similar government subdivision: Nome		

Instructions for Completing a Modification to an NPDES or APDES Notice of Intent (NOI)

Use the form on the subsequent pages to indicate the items for which you are submitting this modification. **Only enter information you wish to change.** You may use this form to modify an NOI that you submitted to ADEC for coverage under the Construction General Permit (CGP). If you have any questions about modifying your NOI, call the ADEC Storm Water Program at (907) 269-8117.

When Should You Modify Your Notice of Intent (NOI)?

You can use this form to ***update or correct*** information on your NOI, including:

- Owner/Operator address and contact information
- Site information
- Start or end dates
- Small changes to the number of acres to be disturbed
- Storm Water Pollution Prevention Plan (SWPPP) location and contact information

When must you Submit a Notice of Termination (NOT) Instead of a Modification Form?

- **The owner/operator has changed:** You must submit a NOT when you transfer control of a site to a new owner/operator. The new owner/operator must then file a new NOI to obtain coverage under ADEC's CGP. Coverage is not transferable.
- **Significant changes in the land area disturbed:** 1) If your original NOI indicated that the acreage of land to be disturbed was between 1 and 5 acres and now your project will disturb more than 5 acres, you should file an NOT to terminate your original NOI and file a new NOI for the larger project. Please note that the CGP has different provisions for small and large construction projects. 2) If your project was larger than 5 acres and the size of the project has increased by 50% or more, you should file a NOT to terminate your original NOI and file a new NOI for the larger project.

In both cases, your new NOI will be subject to the seven day waiting period and review by the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service.

Please submit this form with an original signature in ink – do not send a photocopy

For Agency Use
Permit #_____

Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity Under an APDES Construction General Permit

Submission of this Notice of Intent (NOI) constitutes notice that the party identified in Section I of this form requests authorization to discharge pursuant to the APDES Construction General Permit (CGP). Submission of this NOI also constitutes notice that the party identified in Section I of this form meets the eligibility requirements of the CGP for the project identified in Section II of this form. Permit coverage is required prior to commencement of construction activity until you are eligible to terminate coverage as detailed in the CGP. To obtain authorization, you must submit a complete and accurate NOI form. Refer to the instructions at the end of this form.

I. Single/Multiple NOI Project		
Is this NOI for a project with a single NOI?	☐ Yes	☐ No
If "No," then you project has multiple NOIs, will the fee be paid with this NOI?	☐ Yes	☐ No
If "No," then enter the name of the operator paying the fee:		

II. Operator Information			
Organization:			
Contact Person:			
Mailing Address:	Street (PO Box):		
	City:	State:	Zip:
	Phone:		Fax(optional):
	Email:		

III. Billing Contact Information			
Organization:			
Contact Person:			
Mailing Address: ☐ Check if same as Operator Information.	Street (PO Box):		
	City:	State:	Zip:
	Phone:		Fax(optional):
	Email:		

IV. Project/Site Information			
Project/Site Name:			
Project Street/Location:			
City:	State:	Alaska	Zip:
Borough or similar government subdivision:			
Latitude:	Longitude:		
Determined By: ☐ GPS	☐ USGS topographic map	☐ Other:	

For Agency Use
Permit #_____

If you used a USGS topographic map, what was the scale?	
Estimated Project Start Date:	Estimated Project Completion Date: 10/15/2014
Estimated Area to be Disturbed (to the nearest quarter acre):	
Have storm water discharges from your project/site been covered previously under an EPA or DEC issued permit?	☐ Yes ☐ No
If "Yes", provide the Tracking Number for the coverage under a previous EPA or DEC permit:	
If "Yes," have you updated your SWPPP according to the 2011 Alaska Construction General Permit?	☐ Yes ☐ No

V. SWPPP (Storm Water Pollution Prevention Plan)

Has the SWPPP been prepared in advance of filing this NOI?	☐ Yes ☐ No
For projects of 5 or more acres has a SWPPP been submitted to DEC as required per Part 2.1.3 of the 2011 CGP?	☐ Yes ☐ No ☐ N/A
Location of SWPPP for Viewing:	☐ Address in Section II ☐ Address in Section IV ☐ Other

If other:	SWPPP Street:		
	City:	State:	Zip:
	SWPPP Contact Information (if different than that in Section I):		
	Name:		
	Phone:	Fax(optional):	
	Email:		

VI. Discharge Information

Identify the name(s) of waterbodies to which you discharge:	
Is this discharge consistent with the assumptions and requirements of applicable EPA approved or established TMDL(s)?	☐ Yes ☐ No

VII. Treatment Chemicals

Will you use control measures such as polymers, flocculants or other treatment chemicals at your construction site?	☐ Yes ☐ No
NOTE: If you are unsure at the filing of the NOI, check "No" and then if you use treatment chemicals file an NOI Modification form indicating "Yes".	
If "Yes," indicate the following polymers, flocculants or other treatment chemicals that will be used at your construction site:	☐ Alum ☐ Gypsum ☐ Polyacrylamide (PAM) ☐ Polyaluminum Chloride Other:

For Agency Use
Permit #_____

VIII. Certification Information	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Printed Name: Greg Jarrell	Title: Environmental Division Manager
Signature:	Date: 10-30-13 Email: gjarrell@bristol-companies.c
NOI Preparer (Complete if NOI was prepared by someone other than the certifier)	
Prepared By: DEREK TANNAHILL	
Organization: BESC	
Phone: 907-563-0013 Email: dtannahill@bristol-companies.com	

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINING, LAND & WATER
Water Resources Section

550 WEST 7TH AVENUE, SUITE 1020
ANCHORAGE, ALASKA 99501-3562
PHONE: (907) 269-8600
FAX: (907) 269-8904

June 12, 2012

Bristol Environmental Remediation Services
Attn: Molly Welker
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501

Subject: Temporary Water Use Authorization, TWUP A2012-63

Dear Ms. Welker:

The Water Resources Section completed the review of the Application for Temporary Use of Water from Bristol Environmental Remediation Services. Enclosed is the Temporary Water Use Authorization TWUP A2012-63, **with an expiration date of September 15, 2016,** for uses associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site on St. Lawrence Island.

Please note all of the conditions on the permit, especially conditions one (1), five (5) and thirteen (13) through twenty-four (24).

If changes to this project are proposed during its operation, please contact this office immediately to determine if further review is necessary. If you have any questions or concerns, I may be contacted at (907) 269-8588. Thank you for your cooperation with the Water Resources Section.

Sincerely,

Merry Johnson

Merry Johnson
Natural Resource Specialist III

Enclosures: Temporary Water Use Authorization – TWUP A2012-63
Administrative Service Fee Fact Sheet

Cc. Susan Luetters, Bristol Environmental & Engineering Services Corporation
(Via email: sluetters@bristol-companies.com)

ALASKA DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land, and Water
Water Resources Section
550 West 7th Avenue, Suite 1020, Anchorage, AK 99501-3562

TEMPORARY WATER USE AUTHORIZATION
TWUP A2012-63

Pursuant to AS 46.15, as amended and the rules and regulations promulgated thereunder, permission is hereby granted to Bristol Environmental Remediation Services, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska 99501, and its contractors, **to withdraw up to 3,000 gallons of** water per day **(subject to a maximum of 180,000 gallons of water)** from June 15 through September 15 of each authorized year from the below-described source of water. The water will be used for camp water supply and dust suppression associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site, on Saint Lawrence Island, Alaska.

SOURCE OF WATER:

Suqitughneg River within NW¼ Section 15, Township 25 South, Range 54 West, Kateel River Meridian.

STRUCTURES TO BE CONSTRUCTED AND USED:

Screened water intake structure, four-inch pump with 35-gpm output, hose and/or pipe and other water removal and distribution equipment.

Changes in the natural state of water are to be made as stated herein and for the purposes indicated.

During the effective period of this authorization, the permittee shall comply with the following conditions:

CONDITIONS:

1. This authorization does not authorize the permittee to enter upon any lands until proper rights-of-way, easements, or permission documents from the appropriate landowner have been obtained.

2. Follow acceptable engineering standards in exercising the privilege granted herein.

3. Comply with all applicable laws, and any rules and/or regulations issued thereunder.

4. Except for claims or losses arising from negligence of the State, defend and indemnify the State against and hold it harmless from any and all claims, demands, suits, loss, liability and expense for injury to or death of persons and damages to or loss of property arising out of or connected with the exercise of the privileges covered by this authorization.

5. Notify the Water Resources Section upon change of address.

6. The permittee shall obtain and comply with other permits/approvals (state, federal, or local) that may be required prior to beginning water withdrawal pursuant to this authorization.

7. The permittee shall allow an authorized representative of the Water Resources Section to inspect, at reasonable times, any facilities, equipment, practices, or operators regulated or required under this authorization.

8. Failure to respond to a request for additional information during the term of the authorization may result in the termination of this authorization.

9. The permittee is responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project, and shall ensure that workers are familiar with the requirements of this authorization. For any activity that significantly deviates from the approved project during its siting, construction, or operation, the permittee is required to contact the Water Resources Section and obtain approval before beginning the activity.

10. The Water Resources Section may modify this authorization to include different limitations, expand monitoring requirements, evaluate impacts, or require restoration at the site.

11. Any false statements or representations, in any application, record, report, plan, or other document filed or required to be maintained under this authorization, may result in the termination of this authorization.

12. Pursuant to 11 AAC 93.220 (f), this authorization may be suspended by the Department of Natural Resources to protect the water rights of other persons or the public interest.

13. Any water intake structure in fish bearing waters, including a screened enclosure, well-point, sump, or infiltration gallery, must be designed, operated, and maintained to prevent fish entrapment, entrainment, or injury, unless specifically exempted by the Alaska Department of Fish and Game, Habitat Division.

14. **Water intake structure must be enclosed and centered within a screened box or cylinder with a maximum screen-mesh size of 1/4 inches. To reduce fish impingement at the screen/water interface, water velocity may not exceed 0.5 feet per second when the pump is operating.**

15. **Adequate flow and water levels must remain to support indigenous aquatic life and provide for the efficient passage and movement of fish. Issuance of this authorization does not give the permittee the right to block or dam a water course.**

16. Permittee shall inspect the intake screen for damage (torn screen, crushed screen, screen separated from intake ends, etc.) after each use and prior to each deployment. Any damage observed must be repaired prior to use of the structure. The structure must always conform to the original design specifications while in use.

17. Water discharge (including runoff) shall not be discharged at a rate or location resulting in sedimentation, erosion, or other disruptions to the bed or banks of water bodies, causing water quality degradation.

18. The suction hose at the water extraction site must be clean and free from contamination at all times to prevent introduction of contamination to the water body, and should be in water of sufficient depth so that sediments are not disturbed during the water extraction process.

19. Water bodies shall not be altered to facilitate water withdrawal or disturbed in any way. If banks, shores, or beds are inadvertently disturbed, excavated, compacted, or filled by activities attributable to this project, they shall be immediately stabilized to prevent erosion and resultant sedimentation of water body which could occur both during and after operations. Any disturbed areas shall be recontoured and revegetated.

20. Pumping operations shall be conducted in such a way as to prevent any petroleum products or other hazardous substances from contaminating surface or ground water. Pumps will not be fueled or serviced within 100 feet of a pond, lake, stream, or river unless the pumps are situated within a catch basin designed to contain any spills. Vehicles will not be fueled or serviced within 100 feet of a pond, lake, stream or river. Equipment shall not be stored or serviced within 100 feet of any of the subject water bodies. In case of accidental spills, absorbent pads shall be readily available at the water collection point. All spills must be reported to the Alaska Department of Environmental Conservation and the Alaska Department of Natural Resources.

21. In-water activity will be limited to placement and removal of the intake structure only. No other in-water activities will occur.

22. There shall be no wheeled, tracked, excavating, or other machinery or equipment (with the exception of the non-motorized screened intake box) operated below the ordinary high water line.

23. The placement of water trucks and/or pumping equipment shall not unnecessarily hinder public access.

24. Per 11 AAC 05.010. (a)(8)(M), an annual administrative service fee shall be assessed on this appropriation of water.

This Temporary Water Use Authorization is issued pursuant to 11 AAC 93.220. No water right or priority is established by a temporary water use authorization issued pursuant to 11 AAC 93.220. Water so used is subject to appropriation by others (11 AAC 93.210(b)).

Pursuant to 11 AAC 93.210 (b), authorized temporary water use is subject to amendment, modification, or revocation by the Department of Natural Resources if the Department of Natural Resources determines that amendment, modification, or revocation is necessary to supply water to lawful appropriators of record or to protect the public interest.

This authorization shall expire on September 15, 2016.

Date issued: June 12, 2012

Approved: K. Pleth

Title: Natural Resource Manager

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINING, LAND & WATER
Water Resources Section

550 WEST 7TH AVENUE, SUITE 1020
ANCHORAGE, ALASKA 99501-3562
PHONE: (907) 269-8600
FAX: (907) 269-8904

June 12, 2012

Bristol Environmental Remediation Services
Attn: Molly Welker
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501

Subject: Temporary Water Use Authorization, TWUP A2012-63

Dear Ms. Welker:

The Water Resources Section completed the review of the Application for Temporary Use of Water from Bristol Environmental Remediation Services. Enclosed is the Temporary Water Use Authorization TWUP A2012-63, **with an expiration date of September 15, 2016,** for uses associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site on St. Lawrence Island.

Please note all of the conditions on the permit, especially conditions one (1), five (5) and thirteen (13) through twenty-four (24).

If changes to this project are proposed during its operation, please contact this office immediately to determine if further review is necessary. If you have any questions or concerns, I may be contacted at (907) 269-8588. Thank you for your cooperation with the Water Resources Section.

Sincerely,

Merry Johnson

Merry Johnson
Natural Resource Specialist III

Enclosures: Temporary Water Use Authorization – TWUP A2012-63
Administrative Service Fee Fact Sheet

Cc. Susan Luetters, Bristol Environmental & Engineering Services Corporation
(Via email: sluetters@bristol-companies.com)

ALASKA DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land, and Water
Water Resources Section
550 West 7th Avenue, Suite 1020, Anchorage, AK 99501-3562

TEMPORARY WATER USE AUTHORIZATION
TWUP A2012-63

Pursuant to AS 46.15, as amended and the rules and regulations promulgated thereunder, permission is hereby granted to Bristol Environmental Remediation Services, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska 99501, and its contractors, **to withdraw up to 3,000 gallons of** water per day (**subject to a maximum of 180,000 gallons of water**) from June 15 through September 15 of each authorized year from the below-described source of water. The water will be used for camp water supply and dust suppression associated with the ongoing environmental remedial cleanup activities at the former Northeast Cape site, on Saint Lawrence Island, Alaska.

SOURCE OF WATER:

Suqitughneg River within NW¼ Section 15, Township 25 South, Range 54 West, Kateel River Meridian.

STRUCTURES TO BE CONSTRUCTED AND USED:

Screened water intake structure, four-inch pump with 35-gpm output, hose and/or pipe and other water removal and distribution equipment.

Changes in the natural state of water are to be made as stated herein and for the purposes indicated.

During the effective period of this authorization, the permittee shall comply with the following conditions:

CONDITIONS:

1. This authorization does not authorize the permittee to enter upon any lands until proper rights-of-way, easements, or permission documents from the appropriate landowner have been obtained.

2. Follow acceptable engineering standards in exercising the privilege granted herein.

3. Comply with all applicable laws, and any rules and/or regulations issued thereunder.

4. Except for claims or losses arising from negligence of the State, defend and indemnify the State against and hold it harmless from any and all claims, demands, suits, loss, liability and expense for injury to or death of persons and damages to or loss of property arising out of or connected with the exercise of the privileges covered by this authorization.

5. Notify the Water Resources Section upon change of address.

6. The permittee shall obtain and comply with other permits/approvals (state, federal, or local) that may be required prior to beginning water withdrawal pursuant to this authorization.

7. The permittee shall allow an authorized representative of the Water Resources Section to inspect, at reasonable times, any facilities, equipment, practices, or operators regulated or required under this authorization.

8. Failure to respond to a request for additional information during the term of the authorization may result in the termination of this authorization.

9. The permittee is responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project, and shall ensure that workers are familiar with the requirements of this authorization. For any activity that significantly deviates from the approved project during its siting, construction, or operation, the permittee is required to contact the Water Resources Section and obtain approval before beginning the activity.

10. The Water Resources Section may modify this authorization to include different limitations, expand monitoring requirements, evaluate impacts, or require restoration at the site.

11. Any false statements or representations, in any application, record, report, plan, or other document filed or required to be maintained under this authorization, may result in the termination of this authorization.

12. Pursuant to 11 AAC 93.220 (f), this authorization may be suspended by the Department of Natural Resources to protect the water rights of other persons or the public interest.

13. Any water intake structure in fish bearing waters, including a screened enclosure, well-point, sump, or infiltration gallery, must be designed, operated, and maintained to prevent fish entrapment, entrainment, or injury, unless specifically exempted by the Alaska Department of Fish and Game, Habitat Division.

14. **Water intake structure must be enclosed and centered within a screened box or cylinder with a maximum screen-mesh size of 1/4 inches. To reduce fish impingement at the screen/water interface, water velocity may not exceed 0.5 feet per second when the pump is operating.**

15. **Adequate flow and water levels must remain to support indigenous aquatic life and provide for the efficient passage and movement of fish. Issuance of this authorization does not give the permittee the right to block or dam a water course.**

16. Permittee shall inspect the intake screen for damage (torn screen, crushed screen, screen separated from intake ends, etc.) after each use and prior to each deployment. Any damage observed must be repaired prior to use of the structure. The structure must always conform to the original design specifications while in use.

17. Water discharge (including runoff) shall not be discharged at a rate or location resulting in sedimentation, erosion, or other disruptions to the bed or banks of water bodies, causing water quality degradation.

18. The suction hose at the water extraction site must be clean and free from contamination at all times to prevent introduction of contamination to the water body, and should be in water of sufficient depth so that sediments are not disturbed during the water extraction process.

19. Water bodies shall not be altered to facilitate water withdrawal or disturbed in any way. If banks, shores, or beds are inadvertently disturbed, excavated, compacted, or filled by activities attributable to this project, they shall be immediately stabilized to prevent erosion and resultant sedimentation of water body which could occur both during and after operations. Any disturbed areas shall be recontoured and revegetated.

20. Pumping operations shall be conducted in such a way as to prevent any petroleum products or other hazardous substances from contaminating surface or ground water. Pumps will not be fueled or serviced within 100 feet of a pond, lake, stream, or river unless the pumps are situated within a catch basin designed to contain any spills. Vehicles will not be fueled or serviced within 100 feet of a pond, lake, stream or river. Equipment shall not be stored or serviced within 100 feet of any of the subject water bodies. In case of accidental spills, absorbent pads shall be readily available at the water collection point. All spills must be reported to the Alaska Department of Environmental Conservation and the Alaska Department of Natural Resources.

21. In-water activity will be limited to placement and removal of the intake structure only. No other in-water activities will occur.

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23. The placement of water trucks and/or pumping equipment shall not unnecessarily hinder public access.

24. Per 11 AAC 05.010. (a)(8)(M), an annual administrative service fee shall be assessed on this appropriation of water.

This Temporary Water Use Authorization is issued pursuant to 11 AAC 93.220. No water right or priority is established by a temporary water use authorization issued pursuant to 11 AAC 93.220. Water so used is subject to appropriation by others (11 AAC 93.210(b)).

Pursuant to 11 AAC 93.210 (b), authorized temporary water use is subject to amendment, modification, or revocation by the Department of Natural Resources if the Department of Natural Resources determines that amendment, modification, or revocation is necessary to supply water to lawful appropriators of record or to protect the public interest.

This authorization shall expire on September 15, 2016.

Date issued: June 12, 2012

Approved: K. Plett

Title: Natural Resource Manager

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Anchorage Fish & Wildlife Field Office
605 West 4th Avenue, Room G-61
Anchorage, Alaska 99501-2249

In reply refer to: AFWFO

March 28, 2013

Emailed to:
Susan Luetters
Bristol Engineering Services Corporation
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109

Re: Document1 (*Consultation Number* 2013-0051)

Dear Ms.Susan Luetters

Thank you for your March 28, 2013, email regarding wildlife species that may be affected by the proposal to continue work on remediation of the North East Cape dump site on St. Lawrence Island. The U.S. Army Corps of Engineers (USACE) will authorize this work under section 404 of the Clean Water Act. This letter responds to the request for concurrence with the determination that the proposed action is not likely to adversely affect species listed under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq., as amended; ESA).

This year's activities are described in the information we received from you on March 11, 2013, and that from Curtis Dunkin from the Alaska Department of Environmental Conservation received on March 28, 2013. Our recent communications supplement and update the project information provided in past years for this ongoing work. The vast majority of this year's operations will consist of soil excavations. Contaminated soil will be loaded into bulk bag containers for shipment and off-site disposal. USACE hopes to finalize the remediation during the 2013 season and to continue to monitor natural attenuation of contaminants in the groundwater. Future work will depend on monitoring results.

We reviewed and evaluated this year's project activities for potential impacts to threatened and endangered species. Based on this information, we have determined that the project has not substantially changed from that evaluated each year from 2009 to 2012, and as such, the conclusion that this project is not likely to adversely affect listed species remains valid for this year's (2013) activities. The determination and concurrence statement issued May 13, 2009 (attached) will remain in effect and applicable to the cleanup activities of 2013.

Requirements of section 7 of the ESA have been satisfied. However, if new information reveals project impacts that may affect listed species or critical habitat in a manner not previously considered, if this action is subsequently modified in a manner which was not considered in this assessment, or if a new species is listed or critical habitat is determined that may be affected by the proposed action, section 7 consultation must be reinitiated. This letter relates only to federally listed or proposed species and/or designated or proposed critical habitat under jurisdiction of the Service. It does not address species under the jurisdiction of National Marine Fisheries Service, or other legislation or responsibilities under the Fish and Wildlife Coordination Act, Migratory Bird Treaty Act, Marine Mammal Protection Act, Clean Water Act, National Environmental Policy Act, or Bald and Golden Eagle Protection Act. Please send us any monitoring and reporting documents and updated permits when these are available. If you have any questions, please contact me at (907) 271-2660. Thank you.

Sincerely,

Kimberly J. Klein

Kimberly J. Klein
Endangered Species Biologist

T:\s7\2013 sec 7\NLAA\ 2013-0051_St. Lawrence dump cleanup

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Anchorage Fish and Wildlife Field Office
605 West 4th Avenue, Room G-61
Anchorage, Alaska 99501-2249

in reply refer to AFWFO

May 13, 2009

Susan Luetters
Bristol Environmental & Engineering Services Corporation
111 W 16th Ave., Third Floor
Anchorage, Alaska 99501

Re: St. Lawrence Island NE Cape Site USACE Dump Cleanup (*Consultation number 2009-0093*)

Dear Ms. Luetters,

On April 14, 2009, we received your email that Bristol Environmental & Engineering Services Corporation is working with the U.S. Army Corps of Engineers relative to a former military installation and White Alice Site that is in the process of being remediated towards closure. This site is located on the northeast corner of St. Lawrence Island. The Cargo Beach Road Landfill is an unpermitted landfill that was used as the installation's main solid waste disposal area from 1965 until closure in 1974. Bristol Environmental & Engineering Services Corporation is currently preparing the storm water pollution prevention plan relative to the removal of drums within an area that is the former dump site for the facility. Bristol Environmental & Engineering Services Corporation is scoped to remove 75 tons of contaminated soil with an option of another 150 tons of contaminated soil if needed. There will be no field screening or soil sampling and an in-situ chemical oxidation process will be used to remediate petroleum hydrocarbons in groundwater and soil at the former Main Operations Complex. Bristol Environmental & Engineering Services Corporation will remove drums filled with liquid up to 2500 gallons and the whole site will be capped with local material from a nearby and existing borrow area.

On May 11, 2009, I spoke with Chris Floyd from the Army Corps of Engineers. Apparently this former dump site was used to dispose of containers filled with various unknown liquids and when the military was done using the site, the dump site was simply covered with a large mound of dirt. Currently, contaminants, namely petroleum hydrocarbons, are leaking out of the sides of this mounded area and this project is to remedy that situation, remove drums, and re-cap the site more effectively.

As stated in the information you provided on April 14, 2009, drums containing liquids will be transported to a drum-processing area, to be established along Cargo Beach Road immediately northeast of the site. Contaminated soil will be placed in lined intermodal shipping containers for off-island disposal. Wastewater will be cleaned and disposed of on-site. From your email on April 23, 2009, with respect to the potential for migratory ground nesting birds, the crew will evaluate the site prior to beginning work. However, consultation by you with a Bristol employee that has been involved with the project in the past indicated that there is a high fox population on that end of the island which makes the likelihood of ground nesting birds rather low.

As we discussed on April 21, 2009, yellow-billed loons (*Gavia adamsii*, listed as a candidate species in 2009) nest on St. Lawrence Island. However, they are less than likely to nest in the action area because the site is disturbed and lacking vegetation in some places. In addition, the

fox population is reported to be high in the action area and the crew will look for migratory bird nests prior to beginning work.

Spectacled eiders (*Somateria fischeri,* listed as threatened in 1993) may stage for migration off the northern coast of the action area from July 15 – October 1. This work is proposed for Summer 2009 and thus spectacled eiders may be present in the vicinity during the action. However, wastewater will be cleaned on-site without an outfall and wastes will be transferred to appropriate containers for storage and off-island disposal.

As a result, we believe the probability that this action will result in the taking of listed species is discountable. As a result, the Service concurs with your determination that the proposed action is not likely to adversely affect listed species or adversely modify critical habitat. Preparation of a biological assessment or further consultation under section 7 of the ESA is not necessary at this time. In view of this, requirements of section 7 have been satisfied. However, obligations under the ESA must be reconsidered if new information reveals project impacts that may affect listed species or critical habitat in a manner not previously considered, if this action is subsequently modified in a manner which was not considered in this assessment, or if a new species is listed or critical habitat is determined that may be affected by the identified action.

This letter relates only to federally listed or proposed species, and/or designated or proposed critical habitat, under our jurisdiction; namely, the Aleutian shield fern (*Polystichum aleuticum*, listed as endangered in 1988), spectacled eider (*Somateria fischeri,* listed as threatened in 1993), North American breeding Steller's eider (*Polysticta stelleri*, listed as threatened in 1997), the southwest distinct population segment of northern sea otter (*Enhydra lutris kenyoni,* listed as threatened in 2005), short-tailed albatross (*Phoebastria albatrus*, listed as endangered in 2000), polar bear (*Ursus maritimus*, listed as threatened in 2008), Kittlitz's murrelet (*Brachyramphus brevirostris,* listed as a candidate species in 2005), and yellow-billed loon (*Gavia adamsii*, listed as a candidate species in 2009). This letter does not address species under the jurisdiction of the National Marine Fisheries Service, or other legislation or responsibilities under the Fish and Wildlife Coordination Act, Clean Water Act, National Environmental Policy Act, Marine Mammal Protection Act, Migratory Bird Treaty Act, or Bald and Golden Eagle Protection Act.

Thank you for your cooperation in meeting our joint responsibilities under section 7 of the ESA. If you have any questions, please contact me at (907) 271-3063 and refer to consultation number 2009-0093.

Sincerely,

Tim Langer

Tim Langer, Ph.D.
Endangered Species Biologist

T:\s7\2009 sec 7\NLAA\20090093 s7 letter.pdf

APPENDIX C

Monthly Status Reports
(provided on CD)

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

111 W. 16th Avenue, Third Floor
Anchorage, AK 99501
phone (907) 563-0013
fax (907) 563-6713
www.bristol-companies.com

2011-2014 Northeast Cape HTRW Remedial Actions Contracts: W911KB-06-D-0007 TO 0007, W911KB-12-C-0003, W911KB-13-C-0004, and W911KB-14-D-0006 TO 0002

Monthly Status Report

January 2014

Submitted on 2/10/2014

Summary of Work Tasks

During the month of January, Bristol performed the following tasks:

- Completed drafting the 2013 HTRW Remedial Action Report and submitted the document to the USACE for review and comments
- Scanned and filed transportation and disposal documents that were received from the waste disposal facility.
- Began work on the planning documents for 2014 activities.
- Bristol submitted the Schedule of Values and the Bid Breakdown to the R. Broyles and V. Palmer on 1/20/2014 for contract W911KB-14-D-0006 TO 0002 (2014 contract).
- Bristol submitted a draft POA 15/ENG 93 form for the 2014 contract to the R. Broyles and V. Palmer on 1/27/2014.
- Bristol signed and submitted Modification No. P00006 for contract W911KB-12-C-0003 on 1/27/2014.
- Bristol submitted the project schedule for the 2014 contract to R. Broyles and V. Palmer on 1/30/2014.

Subcontractors

- During the month of January, Bristol received and paid invoices to subcontractors and vendors for heavy equipment rental, remote camp rental, satellite communications, field-laboratory expendables, filtration units, and waste disposal.

USACE and ADEC Correspondence

- Bristol received an email from V. Palmer on 1/7/2014 requesting sample results for MOC groundwater and Site 28 confirmation soil. In response, Bristol submitted data tables and figures from the pending draft RA Report.
- The December 2013 Monthly Status Report was emailed to the USACE on 1/10/2014.
- J. Craner requested geospatial data for Site 21. Bristol submitted 2013 sample results and a draft figure of the site. AutoCAD data was delivered to the USACE via email on 1/14/2014 and 1/15/2014.

- Bristol's B. Burke, G. Jarrell, R. James and C. Schonbeck met with A. Graham, R. Broyles and J. Craner on 1/15/2014 to discuss modifications to the 2012 and 2013 contracts.
- Bristol corresponded with J. Craner on 1/17/2014 regarding work performed at Site 6 in 2010. Bristol answered questions about the excavation and re-sampling of sample 10NC06SB26.
- J. Craner called Bristol's R. James on 1/28/2014 with questions about Site 8 MNA sampling that was performed during years 2010, 2011, and 2012. R. James responded via email on 1/29/2014.

Work Underway

- Preparing draft planning documents for the 2014 project.
- Procurement of supplies and materials for the 2014 project.

Work Planned for the Upcoming Month

- Address comments and finalize the 2013 HTRW Remedial Action Report.
- Work on the draft 2014 planning documents.
- Prepare and complete subcontracts for the 2014 project.
- Prepare Quarry Operating Agreement and deliver to representatives of Kukulget, inc. and Sivuqaq, Inc. for approval.

Status of Report

- The Draft RA Report was delivered to J. Craner, USACE Room 220, on 1/29/2014. Serial letter H-0025 was sent via email regarding Draft Report submittal.

Accident/Exposure Hours

- The December 2013 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2012 and 2013 NE Cape Contracts were submitted on 1/6/14 to R. Broyles and cepoaso@usace.army.mil.

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

111 W. 16th Avenue, Third Floor
Anchorage, AK 99501
phone (907) 563-0013
fax (907) 563-6713
www.bristol-companies.com

2011-2014 Northeast Cape HTRW Remedial Actions Contracts: W911KB-06-D-0007 TO 0007, W911KB-12-C-0003, W911KB-13-C-0004, and W911KB-14-D-0006 TO 0002

Monthly Status Report

February 2014

Submitted on 3/12/2014

Summary of Work Tasks

During the month of February, Bristol performed the following tasks:

- Worked on the draft 2014 planning documents.
- Prepared subcontracts for the 2014 project.
- Received De-obligation Modification P00006 for contract W911KB-12-C-0003 which reduced CLIN 0006AC by $62,192.
- The 2014 project Kickoff Meeting was conducted at Bristol's office on 2/18/2014. Attendees included R. Broyles, V. Palmer, A. Shewman, S. Benjamin, C. Croley, R. James, G. Jarrell and M. Hannah.

Subcontractors

- During the month of February, Bristol received and paid invoices to subcontractors and vendors for heavy equipment rental, remote camp rental, satellite communications, field-laboratory expendables and waste disposal.
- Bristol is preparing subcontracts for contract W911KB-14-D-0006 TO 0002. Bristol will subcontract for permitting services, medical services, surveying, drilling, camp/catering, and laboratory services.

USACE and ADEC Correspondence

- Bristol contacted V. Palmer and J. Craner on 2/4/2014 requesting updated information for USACE safety personnel.
- The monthly record of work-related injuries/illness and exposure forms for January, 2014 were submitted to the USACE on 2/5/2014.
- Bristol emailed R. Broyles on 2/10/2014 regarding the delivery of signed manifests and certificates of disposal for wastes associated with contract W911KB-06-D-0007. The manifests and disposal certificates were delivered on 2/11/14.
- Bristol submitted a Kickoff Meeting Agenda to the USACE on 2/13/2014 for the Kickoff Meeting that was conducted on 2/18/2014 at the Bristol office.
- Bristol received photos from the USACE on 2/18/2014. The photos showed some of the debris at the Site 7 Landfill that the USACE would like to be removed in 2014.
- Bristol contacted R. Broyles on 2/21/2014 to inform the USACE of a mistake that was found on the pay estimate for Invoice 34130068-06. The details were included in an email and it was decided that the error will be rectified on the next invoice

(34130068-07). Bristol will credit the USACE $4,189.99 to the line item for project management on invoice 34130068-07.

- V. Palmer emailed Bristol on 2/24/2014 to ask if Bristol had removed drums identified by Frank von Hippel in 2013. Bristol responded on 2/24/2014.

Payments and Invoices

- Bristol submitted the final pay estimate for contract W911KB-12-C-0003 to the USACE on 2/7/2014 under serial letter H-0032. Pay estimate amount: $39,928.00. A release of claims form was signed by Bristol and accompanied the pay estimate.
- Bristol submitted the pay estimate for Invoice 34130068-06 to R. Broyles on 2/13/2014 in the amount of $308,380.13. Bristol received approval on 2/14/2014 Date and submitted Invoice 34130068-06 on 2/20/2014 Date.
- Invoice 34130068-06 was submitted on 2/20/2014 in the amount of $308,380.13. The invoice was submitted under serial letter H-0026.

Work Underway

- Preparing draft planning documents for the 2014 project.
- Procurement of supplies and materials for the 2014 project.
- Subcontract agreements for 2014 contract.

Work Planned for the Upcoming Month

- Address comments and finalize the 2013 HTRW Remedial Action Report.
- Complete the draft 2014 planning documents.
- Complete subcontracts for the 2014 project.
- Acquire permits for 2014 operations.
- Prepare Quarry Operating Agreement and deliver to representatives of Kukulget, inc. and Sivuqaq, Inc. for approval.

Reporting

- The Draft RA Report was delivered to J. Craner, USACE Room 220, on 1/29/2014. Bristol is awaiting comments.

Accident/Exposure Hours

- The January 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2012, 2013 and 2014 NE Cape Contracts were submitted on 2/5/14 to R. Broyles and cepoaso@usace.army.mil.

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

111 W. 16th Avenue, Third Floor
Anchorage, AK 99501
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2011-2014 Northeast Cape HTRW Remedial Actions Contracts: W911KB-06-D-0007 TO 0007, W911KB-13-C-0004, and W911KB-14-D-0006 TO 0002

Monthly Status Report

March 2014

Submitted on 4/10/2014

Summary of Work Tasks

Bristol focused on planning for 2014 and reporting on 2013 during the month of March:

- Bristol worked on the draft 2014 planning documents. The draft documents were finalized and readied for submittal.
- Permits are being acquired for the 2014 project. The Temporary Water Use Permit (TWUP) fee was paid on 3/28/2014. Emails were sent to the Alaska DNR, NOAA-NMFS and the USFWS with the 2014 project description. NOAA-NMFS responded on 3/26/2014 stating that there were no changes to the current permit. The quarry agreements were sent to Sivuqaq, Inc. and Jerry Reichlin for review and signatures on 3/20/2014. Bristol tried to contact Kukulget, Inc., but has been unsuccessful I finding a representative to correspond with.
- Bristol received an RFP for a modification (P00001) for Contract W911KB-14-D-0006, T.O. 0002 on 3/28/2014. Bristol is preparing a price quote.
- Bristol received comments from the USACE regarding the HTRW RA Report for Contract W911KB-13-C-0004 on 3/17/2014. Bristol addressed the comments and responded on 3/27/2014. Bristol is incorporating the comments and is awaiting additional comments from the ADEC. The USACE forwarded ACAT responses to Bristol on 3/19/2014. The USACE had addressed most of the comments and Bristol addressed those remaining and returned the responses to the USACE on 3/27/2014.

Subcontractors

- Bristol prepared subcontracts for the 2014 project. Bristol finalized subcontracts with Bristol Engineering Services Corporation, GeoTek Alaska, and Fairweather, LLC.

USACE and ADEC Correspondence

- Bristol contacted R. Broyles on 3/4/2014 regarding invoice 34130068-06. Bristol wanted to clarify the pricing rationale. R. Broyles confirmed that he understood the invoice and had processed it for payment.
- Bristol emailed the monthly record of work-related injuries/illnesses & exposure forms to the USACE on 3/4/2014.
- V. Palmer emailed Bristol on 3/10/2014 to inform Bristol that a modification was upcoming for the 2014 contract.
- Bristol emailed the February Monthly Status Report to the USACE on 3/12/2014.

- J. Craner emailed R. James on 3/19/2014 to confirm that Bristol had received the HTRW Report comments. R. James responded that Bristol had received the comments.
- Bristol received an email from V. Palmer on 3/20/2014 to inform Bristol that ADEC planned on providing comments to the USACE on 3/21/2014.
- Bristol received an email from V. Palmer on 3/28/2014 which states that the USACE received an email from ADEC regarding responses to the 2013 RA Report. The ADEC intended to send report comments to the USACE during the week of 3/31/2014.

Payments and Invoices

- Bristol received payment for invoice 34130068-06 in the amount of $308,380.13 on 3/18/2014.

Work Underway

- Incorporating changes requested by the USACE into the 2013 HTRW RA Report
- Procurement of supplies and materials for the 2014 project
- Preparation for mobilization in June and July, 2014
- Preparing a price quote in response to modification P00001 for the 2014 contract
- Subcontract agreements for 2014 contract

Work Planned for the Upcoming Month

- Address comments and finalize the 2013 HTRW Remedial Action Report
- Deliver the draft 2014 planning documents to the USACE
- Complete subcontracts for the 2014 project
- Finalize permits for 2014 operations
- Execute Quarry Operating Agreements with Kukulget, inc. and Sivuqaq, Inc.
- Prepare all equipment and supplies for mobilization and begin deliveries to the Port of Anchorage

Planning/Reporting

- Bristol is awaiting comments from the ADEC on the 2013 HTRW RA Report.

Accident/Exposure Hours

- The February 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2012, 2013 and 2014 NE Cape Contracts were submitted on 3/4/2014 to R. Broyles and cepoaso@usace.army.mil.

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Monthly Status Report

April 2014

Submitted on 5/12/2014

Summary of Work Tasks

- Bristol was planning for 2014 and preparing the RA Report for 2013 during the month of April:
  - Bristol delivered the draft 2014 Planning Documents to the USACE on 4/1/2014.
  - Bristol incorporated USACE's comments into the 2013 RA Report. Figures were revised and will be submitted to the USACE for review.
  - Bristol sent additional responses to ACAT comments on 4/8/2014 regarding the 2013 RA report.
  - Bristol received additional USACE comments on the 2013 report on 4/11/2013. Bristol responded on 4/11/2014. Bristol addressed the comments and will submit revised figures to the USACE for comments before the report is finalized.
  - Permitting was completed for the upcoming field season. Bristol corresponded with multiple agencies for permitting purposes:
    - US Fish and Wildlife Service
    - Alaska Department of Natural Resources
    - National Oceanic and Atmospheric Administration, National Marine Fisheries Service
  - Bristol received a signed quarry agreement from Sivuqaq, Inc. on 4/23/2014
- Four-hundred bulk bag containers and five open-top Conex containers were loaded onto a barge in Seattle by 4/28/2014. Bristol organized miscellaneous tools, supplies and sampling equipment in the shop yard for mobilization. Two shipping containers were loaded with bulk bags and other gear bound for NE Cape.
- Bristol submitted Pay Estimate 01 for NE Cape 2014 to R. Broyles on 4/3/2014. Invoice 34140087-01 was submitted to the USACE on 4/9/2014.
- Bristol received the bottle order from TestAmerica and loaded the sample containers onto the barge bound for Nome.
- Bristol met with the USACE on 4/24/2014 to discuss the price proposal for modification P00001 for contract W911KB-14-D-0006 TO 0002. G. Jarrell and R. James met with R. Taylor and R. Broyles at the USACE office.

Subcontractors

- Bristol corresponded with surveying, laboratory, drilling and camp subcontractors regarding mobilization, field scheduling and subcontracts.

USACE and ADEC Correspondence

- 4/1/2014 – Bristol emailed USACE regarding the delivery of the 2014 Planning Documents.
- 4/7/2014 - Bristol corresponded with J. Craner regarding field schedule and initial mobilization. Bristol received the signed computation sheet from R. Broyles.
- 4/8/2014 – Bristol provided the USACE with responses to ACAT comments.
- 4/9/2014 – Bristol emailed invoice 34140087-01 to R. Broyles under serial letter H-0004.
- 4/10/2014 – Bristol emailed the NE Cape monthly status report for March 2014 to V. Palmer, M. Suprenant and R. Broyles.
- 4/11/2014 – The USACE provided Bristol with additional comments to on the 2013 RA report.
- 4/14/2014 – Bristol submitted a price proposal for contract modification 0001 for contract W911KB-14-D-0006 TO 0002. The proposal was submitted to R. Taylor and A. Graham via email. R. Taylor confirmed receipt of the proposal in an email response.
- 4/15/2014 – Bristol emailed the USACE regarding the printer that will be available for USACE use at NE Cape during the 2014 field season.
- 4/15/2014 – R. James and J. Craner had a phone conversation regarding the 2013 RA report figures.
- 4/15/2014 – J. Craner emailed Bristol and asked if there was an updated aerial image of the site. Bristol contacted a vendor in Anchorage and supplied the pricing information to USACE for a 2013 color satellite photo. Bristol provided pricing to the USACE on 4/16/2014.
- 4/21/2014 - V. Palmer emailed Bristol regarding ADEC's comments on the 2013 RA report. The email states that ADEC's comments are expected on 4/22/2014 (ADEC comments were received on 5/2/2014).
- 4/22/2014 – R. Broyles contacted Bristol to set up a meeting to discuss Bristol's proposal to modification P00001.

Project Schedule

- Bristol is planning to mobilize to NE Cape on 6/9/2014 to sample the borings at Site 21. Bristol expects the job duration to last approximately 5 days.
- July 7, 2014 is the anticipated mobilization date for the camp setup crew. Camp setup will take approximately 12 to 14 days. Bristol expects the camp and crew to be fully operational by July 21, 2014.

Payments and Invoices

- Bristol sent invoice 34140087-01 to the USACE on 4/9/2014 for the amount of $29,449.39.

Work Underway

- Bristol is making revisions to the 2013 RA Report. Figures are being edited and will be sent to the USACE for review.
- Bristol is finalizing subcontract agreements with the laboratory, camp and surveying services.
- Bristol is preparing for field mobilization. Miscellaneous tools, equipment and supplies are in transport or are being staged in preparation for shipping.
- Bristol is seeking signatures for the Quarry Operating Agreement with Kukulget, Inc.

Work Planned for the Upcoming Month

- Address USACE and ADEC comments and finalize the 2013 HTRW Remedial Action Report. A comment resolution meeting may be necessary during the latter half of May.
- Address USACE and ADEC comments for the 2014 Planning Documents.
- Complete subcontracts for the 2014 project.
- Finalize preparations for the June mobilization to install the arsenic borings at Site 21.

Accident/Exposure Hours

- The March 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2013 and 2014 NE Cape Contracts were submitted on 4/7/2014 to R. Broyles and cepoaso@usace.army.mil.

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Monthly Status Report

May 2014

Submitted on 6/16/2014

Summary of Work Tasks

- Bristol was planning for 2014 and finalizing the 2013 RA Report during the month of May:
  - Bristol addressed ADEC comments for the 2013 RA Report.
  - Bristol addressed USACE comments on the 2014 Planning Documents.
  - Equipment and supplies are en-route to Nome, Alaska via marine transport.
  - A meeting was held with the USACE to discuss ADEC comments on the 2013 RA Report.
- Bristol submitted Pay Estimate 02 for NE Cape 2014 to R. Broyles on 5/6/2014. Invoice 34140087-02 was submitted to the USACE on 5/20/2014 in the amount of $328,260.93.

Subcontractors

- Bristol corresponded with surveying, laboratory, drilling and camp subcontractors regarding mobilization, field scheduling and subcontracts.

USACE and ADEC Correspondence

- 5/1/2014 – V. Palmer forwarded an email from the ADEC regarding the on-site field lab and ADEC approval. Bristol has been communicating closely with TestAmerica to ensure that the approval process will be as seamless as possible.
- 5/6/2014 – Bristol sent Pay Estimate 02 to R. Broyles. Broyles returned the signed computation sheet.
- 5/12/2014 – Bristol emailed the USACE to ask if some of the elevation data from NE Cape could be provided to a UAA student. R. Broyles consented to allowing the data to be provided.
- 5/12/2014 – Bristol emailed USACE to provide the model number of the printer that will be available for the QAR at NE Cape.
- 5/14/2014 – Bristol provided the USACE with revised figures for the 2013 RA Report. The figures were uploaded to the Bristol ftp site.
- 5/15/2014 – Bristol received the USACE's comments on the draft 2014 planning documents.

- 5/16/2014 – The USACE provided Bristol with modification 01 to the NE Cape Task Order. Bristol responded with some requested changes. A pdf was marked-up and sent to R. Taylor.
- 5/16/2014 – The USACE emailed Bristol comments on the revised 2013 RA Report figures that were submitted on 5/14.
- 5/16/2014 – The USACE provided Bristol with an NOI modification for the NE Cape SWPPP. The paperwork will be included with the on-site SWPPP at NE Cape.
- 5/19/2014 – Bristol and the USACE arranged a meeting for May 23, 2014 to discuss the ADEC's comments on the 2013 RA Report and the upcoming 2014 field work, specifically Site 21.
- 5/20/2014 – V. Palmer emailed to notify meeting participants that the meeting will be in Room 63 at the USACE's offices on JBER.
- 5/21/2014 – J. Craner requested a minor revision to, and the DWG for, Figure 7 of the 2014 Work Plan.
- 5/22/2014 – Bristol sent drafts for Figure 6 of the Work Plan to the USACE. The USACE will use the figure to plot their preferred soil boring locations for Site 21.
- 5/22/2014 – Bristol responded to questions from Jacob's (through emails provided by J. Craner) regarding survey data points for NE Cape. R. James emailed Theresa Watt (Jacobs) to help align the data. Bristol informed the USACE that Eco-Land will collect additional control points in 2014 at the NE Cape site.
- 5/22/2014 – Bristol emailed a meeting agenda to the USACE for the meeting scheduled for 5/23/2014.
- 5/23/2014 – Bristol's G. Jarrell, R. James, E. Barnhill and M. Hannah met with V. Palmer, J. Craner, A. Shewman, and R. Broyles to discuss ADEC comments on the 2013 RA Report. Site 21 arsenic sampling was also discussed. The meeting minutes were recorded and provided to the USACE on 6/2/2014.
- 5/28/2014 – V. Palmer emailed Bristol ADEC's approval for the 2013 Planning Documents.
- 5/28/2014 – Bristol provided the USACE with a revised version of Figure 7 for the 2014 Work Plan. J. Craner requested some additional minor revisions.
- 5/30/2014 – Bristol provided the USACE with a revised version of Figure 6 for the 2014 Work Plan.

Project Schedule

- Bristol is planning to mobilize to NE Cape on 6/9/2014 to sample the borings at Site 21. Bristol expects the job duration to last approximately 5 days.
- July 8, 2014 is the anticipated mobilization date for the camp setup crew. Camp setup will take approximately 12 to 14 days. Bristol expects the camp and crew to be fully operational by July 22, 2014.

Payments and Invoices

- Bristol sent invoice 34140087-02 to the USACE on 5/20/2014 in the amount of $328,260.93.

Work Underway

- Bristol is making revisions to the 2013 RA Report based on comments from the ADEC and the USACE. Bristol is awaiting acceptance of the contractor's responses to the ADEC's comments.
- Bristol is finalizing subcontract agreements with the laboratory, camp and surveying services.
- Bristol is preparing for field mobilization. Miscellaneous tools, equipment and supplies are in transport or are being staged in preparation for shipping.
- Bristol is awaiting comments from the ADEC on the 2014 planning documents.

Work Planned for the Upcoming Month

- Mobilize to NE Cape on June 10, 2014 and collect arsenic samples from Site 21. Once sample results are received, a map will be made showing the extent of arsenic contamination at the site. An additional map showing historical concentrations of arsenic at Site 21 will be developed and delivered to the USACE alongside the map showing the current arsenic sample results.
- Address the ADEC's comments and finalize the 2013 HTRW Remedial Action Report. A comment resolution meeting may be necessary pending ADEC's acceptance/rejection of Bristol and the USACE's response to the ADEC's comments.
- Receive and address the ADEC's comments for the 2014 Planning Documents.
- Complete subcontracts for the 2014 project.

Accident/Exposure Hours

- The April 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2013 and 2014 NE Cape Contracts were submitted on 5/2/2014 to R. Broyles and cepoaso@usace.army.mil.

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Monthly Status Report

June 2014

Submitted on 7/10/2014

Summary of Work Tasks

- Bristol was planning for 2014 and finalizing the 2013 RA Report during the month of June:
  - Bristol revised work plan figures based on USACE comments and submitted revised copies of the figures to the USACE.
  - Bristol addressed ACAT comments on the 2014 Planning Documents.
  - Equipment and supplies were delivered to NE Cape via marine transport on 6/26/2014 and 6/30/2014.
  - A teleconference was held on 6/4/2014 with the USACE and ADEC regarding an upcoming Site 21 soil boring sampling event.
- Bristol performed the Site 21 Soil Boring Sampling event from June 10, 2014 to June 14, 2014. Bristol sampled 40 soil borings at Site 21 for a total of 120 primary soil samples. The results were submitted to the USACE along with a map showing the locations of the soil borings and the analytical results.
- Bristol collected waste characterization and geotechnical samples from the geotubes at Site 28. The samples were submitted to their respective laboratories.
- Bristol submitted Pay Estimate 03 for NE Cape 2014 to R. Broyles on 6/24/2014. Invoice 34140087-03 was submitted to the USACE on 6/25/2014 in the amount of $117,901.57.

Subcontractors

- Bristol corresponded with surveying, laboratory, drilling and camp subcontractors regarding mobilization, field scheduling and subcontracts.
- Bristol discussed scheduling with Northland Services (Marine Transport) for shipments to and from NE Cape.

USACE and ADEC Correspondence

- 6/2/2014 – The monthly record of work-related injuries/illnesses & exposure hours was submitted via email to Ron Broyles and cepoaso@usace.army.mil.

- 6/2/2014 – Meeting minutes were emailed to V. Palmer and J. Craner for a meeting that was conducted on 5/23/2014 at the USACE office. The primary focus of the meeting was to discuss the ADEC's comments on the 2013 RA Report.
- 6/3/2014 – Bristol emailed with J. Craner regarding changes to work plan figures 6 and 7. Bristol and USACE also discussed the upcoming soil borings at Site 21. Scheduling of the Security Aviation flight to NE Cape was also discussed.
- 6/3/2014 – Bristol submitted a revised version of work plan Figure 7 to the USACE for review.
- 6/3/2014 – The USACE emailed ACAT's comments on the 2014 Work Plan to Bristol. The USACE requested that Bristol respond to comment number 13 and return the response. Bristol responded to the comment and returned the comment sheet via email on 6/3/2014.
- 6/3/2014 – V. Palmer emailed R. James to arrange a teleconference with the ADEC regarding the initial Site 21 soil boring effort. The teleconference was set for 10 AM on 6/4/2014. Bristol accepted the invitation via email.
- 6/4/2014 – V. Palmer emailed the ADEC's comments on the work plan related to the initial Site 21 soil borings. Bristol emailed responses to the USACE prior to the 10 AM teleconference.
- 6/4/2014 – J. Craner emailed recommended changes to work plan Figure 6. Bristol made the edits and returned the figure to USACE via email on 6/4/2014.
- 6/4/2014 – J. Craner emailed the USACE's response to the contractor's response to the USACE's comments on the 2014 Work Plan.
- 6/6/2014 – V. Palmer emailed the ADEC's tentative approval of the initial soil boring sampling planned for 6/9/2014.
- 6/16/2014 – Bristol emailed the May Monthly Status Report to V. Palmer, R. Broyles and M. Suprenant.
- 6/17/2014 – Bristol emailed Pay Estimate 03 to R. Broyles.
- 6/19/2014 – Bristol emailed the preliminary arsenic results from the Site 21 soil boring sampling event to J. Craner and V. Palmer. A draft map showing the sample results and the boring locations was also provided on 6/19/2014
- 6/24/2014 – Bristol emailed V. Palmer and J. Craner at the USACE to ask if they had received any comments on the 2014 Work Plan from the ADEC.
- 6/24/2014 – Bristol sent a revised Pay Estimate 03 to R. Broyles. CLIN 0007 was reduced in the revised pay estimate. Bristol received the signed computation sheet for Pay Estimate 03 from R. Broyles on 6/24/2014.
- 6/25/2014 – J. Craner informed Bristol that the ADEC's told the USACE to expect comments on the 2014 work plan on Friday 6/27/2014.
- 6/25/2014 – Bristol submitted Invoice 34140087-03 to R. Broyles via email.
- 6/25/2014 – J. Craner spoke with R. James on the phone regarding the figure for Site 21. He also asked for clarification on the changes that Bristol had requested be made to contract modification 01. Bristol emailed the suggested changes to J. Craner on 6/25/2014.

Project Schedule

- Bristol is planning to mobilize to NE Cape on 7/8/2014 to begin camp setup. Global Services (camp subcontractor) will mobilize on 7/10/2014 to assist with the setup process and erect the Quonset-hut tents.
- Communications are expected to be setup on 7/11/2014.
- The field-lab crew will mobilized to the site on Tuesday, July 15, 2014. The setup process will take approximately 5 to 7 days. Bristol expects the lab to be fully operational by July 22, 2014.
- The science and survey crew will mobilize to the site Friday, July 18 or Monday July 21, 2014. This date is dependent on weather and the camp setup time.
- Excavation operations are expected to begin anywhere from July 21 to July 23, 2014.

Payments and Invoices

Invoice 34140087-03 was submitted to the USACE on 6/25/2014 in the amount of $117,901.57.

Bristol paid approximately $49,961 to subcontractors and vendors during the month of June for Contract W911KB-14-D-0006 TO 0002.

Bristol paid approximately $102,096 to subcontractors and vendors during the month of June for Contract W911KB-13-C-0004.

Work Underway

- Bristol is making revisions to the 2013 RA Report based on comments from the ADEC and the USACE. Bristol will submit a final copy of the report after the comments have been addressed.
- Bristol is mobilizing to the site. The camp is being setup and subcontractors are preparing for mobilization.
- Bristol is creating a map for Site 21 that shows historical concentrations of arsenic samples.
- Bristol is awaiting the ADEC's comments on the 2014 planning documents. A final version of the planning documents will be submitted once these pending comments are addressed.

Work Planned for the Upcoming Month

- Mobilize to NE Cape, setup camp, survey the site and begin POL excavations. Bristol will implement the work plan and begin field work. Refer to the "Project Schedule" section for additional information.
- Finalize the 2013 HTRW Remedial Action Report.

- Receive and address the ADEC's comments for the 2014 Planning Documents.

Accident/Exposure Hours

- The May 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2013 and 2014 NE Cape Contracts were submitted on 6/2/2014 to R. Broyles and cepoaso@usace.army.mil.

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Monthly Status Report

July 2014

Submitted on 8/14/2014

Summary of Work Tasks July 1st through August 10th, 2014

- Bristol mobilized to NE Cape, setup camp and started work on field tasks during the month of July:
  - Bristol's setup crew mobilized to NE Cape on July 8, 2014. The camp/catering setup crew mobilized on July 10, 2014. The chemists mobilized on July 17, 2014 and started setting up the field lab. The remaining crew arrived on July 21 and 22, 2014. The field lab was setup and received ADEC Certification on July 28, 2014.
  - POL excavations began on July 24, 2014 with removal of soil from the C-Plume.
  - Bristol has collected miscellaneous debris from across the NE Cape site and from the Site 7 landfill.
  - Bristol investigated and has removed soil from Site 10.
  - Bristol investigated Sites 6 and 27.
  - Bristol investigated and has removed soil from Site 32.
  - Bristol collected soil boring samples and has installed six monitoring wells.
  - Bristol collected soil boring samples and excavated soils from Site 21.
  - Bristol provided the USACE with maps showing historical arsenic concentrations across the NE Cape site.
  - Bristol containerized the sediment from Site 28 that overwintered in the sediment dewatering tubes.
  - Bristol collected an MI sample from the decision unit at the Site 28 work pad.
- Bristol submitted Pay Estimate 04 for NE Cape 2014 to R. Broyles on 8/5/2014. Invoice 34140087-04 was submitted to the USACE on 8/8/2014 in the amount of $3,810,977.11.

Subcontractors

- Bristol is working with surveying, laboratory, drilling and camp subcontractors regarding to accomplish all field tasks.
  - Eco-Land surveyors have mobilized to the site twice for 5-day durations.
  - Global Services is providing camp and catering services for approximately 25 people.
  - The on-site certified lab provided by TestAmerica is analyzing DRO/RRO samples.

  - GeoTek Alaska arrived 8/4/2014 and has installed six of seven monitoring wells.
- Bristol discussed scheduling with Northland Services (Marine Transport) for shipments to and from NE Cape.

USACE and ADEC Correspondence

- 7/8/2014 – R. James email V. Palmer and J. Craner regarding mobilization of the setup crew to NE Cape. A brief overview of the mobilization schedule was also described in the email.
- 7/8/2014 – J. Craner emailed R. James to request a Security Aviation flight on Monday, 7/21/2014. R. James responded to inform the USACE that Bristol would like to have people on that flight as well. J. Craner informed R. James that Security Aviation flights would be coordinated through Bristol.
- 7/11/2014 – R. James emailed V. Palmer and J. Craner an updated schedule for the NE Cape project.
- 7/15/2014 – R. James forwarded DQCRs to V. Palmer and J. Craner that C. Croley had submitted regarding mobilization activities.
- R. Broyles emailed G. Jarrell requesting a billing estimate for the NE Cape projects through October, 2014. G. Jarrell emailed the forecasted estimates to Broyles on 7/15/2014.
- 7/17/2014 – J. Craner emailed R. James to ask when the surveyors would arrive on site. R. James replied that the surveyors would arrive on Monday, 7/21/2014. The USACE requested that Bristol reserve a Security Aviation flight for Wednesday, 8/6/2014 for QAR changeout.
- 7/17/2014 thru 7/18/2014 – Bristol communicated with the USACE regarding historical arsenic maps for NE Cape. Bristol submitted several maps to the USACE and responded to comments to revise/edit the maps. The USACE provided Bristol with a spreadsheet and some GIS files to facilitate the mapping process. Bristol uploaded the figures to an ftp site on 7/18/2014.
- 7/22/2014 – Bristol requested data from the USACE for some points that were to be investigated as tasks from contract modification 01. The USACE delivered the data to Bristol on 7/22/2014.
- 7/23/2014 – J. Craner emailed R. James with sampling information that was in question during the preparatory phase meeting for POL soil removal. The QAR instructed Bristol via email to collect a full set of duplicates and MS/MSDs during each MOC surface water sampling event. The USACE also instructed Bristol to collect confirmation soil samples at a rate of 1 per 20 linear feet of sidewall.
- 7/24/2014 – J. Craner forwarded emails between V. Palmer and C. Dunkin (ADEC) regarding the sample collection frequency for soil samples collected from the POL excavations at the MOC.
- 7/24/2014 – R. James emailed J. Craner regarding the historical sample location that was re-located by the survey team. J. Craner responded on 7/25/2014 with some clarification on how the determination was made during the 5-year review to investigate Site 6.

- 7/25/214 – J. Craner emailed R. James to request that the Security Aviation flight be changed from 8/6/2014 to 8/10/2014.
- 7/26/2014 – J. Craner emailed R. James a map with some tentative boring locations at Site 21 that the USACE would like Bristol to sample.
- 7/26/2014 – R. James submitted a map via email to J. Craner. The map showed 2014 soil boring locations and all historical samples at Site 21. J. Craner responded with some suggested revisions. R. James made the changes and submitted a revised figure.
- 7/29/2014 – J. Craner emailed R. James some work tasks that the USACE would like to have completed before field work is completed:
    - Survey the Site 28/MOC boundary.
    - Remove some specific drums from around the site.
    - Remove a metal grate at Site 31 and fill the underlying hole with gravel.
- 7/29/2014 – J. Craner requested the field lab certifications via email. Bristol sent a .pdf document of the certification to J. Craner on 7/29/2014.
- 7/30/2014 – R. James emailed a variety of sample results to J. Craner.
- 7/30/024 – J. Craner requested arsenic sample results in a table format to correspond with some of the sample results displayed on the historical arsenic figures.
- 7/30/2014 – Bristol emailed the USACE regarding modification 01 to contract W911KB-14-D-0006 TO 0002. R. Broyles responded via email stating that he discussed the matter with the contract specialist.
- 8/1/2014 – R. James emailed additional sample results to J. Craner.
- 8/2/2014 – J. Craner emailed R. James a figure showing the final nine proposed soil boring locations for Site 21.
- 8/5/2014 – Bristol emailed pay estimate 04 to R. Broyles. Broyles signed the pay estimate computation sheet and returned the signed copy to Bristol via email.
- 8/7/2014 – R. James emailed J. Craner sample results from Site 10 (TestAmerica work order 580-44702-1). J. Craner responded with disappointment over the turnaround times being provided by TestAmerica. Bristol responded via email regarding communication with the laboratory and anticipated receipt of sample results.
- 8/8/2014 – Bristol emailed the USACE sample results from the final soil boring samples collected at Site 21.

Project Schedule

- Bristol's setup crew mobilized to NE Cape on July 8, 2014. The camp/catering setup crew mobilized on July 10, 2014. The chemists mobilized on July 17, 2014 and started setting up the field lab. The remaining crew arrived on July 21 and 22, 2014. The field lab was setup and received ADEC Certification on July 28, 2014.
- POL excavations have completed. The field team is awaiting results on one final soil stockpile to determine if the soil will be containerized or used as backfill.
- Bristol is awaiting sample results from excavations at Site 10 and Site 21 to determine if additional excavations will be necessary at these two sites.

- Bristol will begin work on activities associated with demobilization. Bristol is tentatively planning for increasing demobilization efforts around August 25, 2014. Until sample results are received, it is unclear exactly when the camp teardown can begin.
- Bristol expects to load additional landing craft to ship bulk bags off island at the end of August.

Payments and Invoices

Invoice 34140087-04 was submitted to the USACE on 8/8/2014 in the amount of $3,810,977.11.

Bristol paid approximately $238,441 to subcontractors and vendors during the month of July for Contract W911KB-14-D-0006 TO 0002.

Bristol paid approximately $550.17 to subcontractors and vendors during the month of July for Contract W911KB-13-C-0004.

Work Underway

- Bristol is making revisions to the 2013 RA Report based on comments from the ADEC and the USACE. Bristol will submit a final copy of the report after the comments have been addressed.
- Bristol is backfilling the POL excavation areas at the MOC.
- Bristol is completing monitoring well installations and repairs at the MOC.
- Bristol is excavating soils from Site 21 and Site 10. Soil sample results are pending and will determine if additional excavation is necessary.
- Bristol is awaiting the ADEC's comments on the 2014 planning documents. A final version of the planning documents will be submitted once these pending comments are addressed.

Work Planned for the Upcoming Month

- Complete monitoring well installations and excavations at all sites.
- Backfill, grade, seed and fertilize all excavated areas at the MOC, Site 10, Site 21 and Site 32.
- Begin demobilization efforts, including camp teardown, container/bulk bag shipping, and shipping equipment off site.
- Collect MI samples from bulk bag staging areas.
- Finalize the 2013 HTRW Remedial Action Report.

Accident/Exposure Hours

- The June 2014 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms for the 2011, 2013 and 2014 NE Cape Contracts were submitted on 7/3/2014 to R. Broyles and cepoaso@usace.army.mil.

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2011, 2013 and 2014 Northeast Cape HTRW Remedial Actions Contracts: W911KB-06-D-0007 TO 0007, W911KB-13-C-0004, and W911KB-14-D-0006 TO 0002

Monthly Status Report

August 10 through November 10, 2014

Submitted on11/14/2014

Summary of Work Tasks August 10 through November 10, 2014

- Bristol completed field work at NE Cape and demobilized personnel and equipment from the site:
  - Bristol completed the installation of monitoring wells on 8/13/2014.
  - Existing monitoring well repairs were completed on 8/11/2014.
  - Arsenic-contaminated soil was removed from Site 21 and the site was backfilled and graded.
  - Bristol collected surface water samples at Site 8 on 8/11/2014.
  - Debris was removed from Site 7 and the general Northeast Cape site.
  - Bristol decommissioned six monitoring wells.
  - Bristol completely backfilled, seeded and fertilized the POL excavations at the MOC. The final grade was surveyed by Ecoland, LLC.
  - A metal grate was removed at Site 31 and the hollow sub-structure was backfilled.
  - Contaminated soil was removed at Site 10. The excavation was lined and backfilled following the collection of confirmation samples.
  - MI Samples were collected from Site 26, Site 28, the MOC and Cargo Beach.
  - Groundwater samples were collected from the monitoring wells on 8/23/2014.
  - Bristol remobilized to the site at the end of September to excavate additional soil at Site 10 and demobilize equipment and supplies.
  - Confirmation samples, excavation areas, site topography and monitoring well locations were surveyed.
  - Personnel and equipment was demobilized from the site. Alaska Marine Lines (Northland) left twenty containers at Cargo Beach that will be picked up in 2015.
  - A small, three-person crew mobilized to NE Cape on 10/21/2014 to complete MI sampling of Cargo Beach. This was the last mobilization to and demobilization from the site.
- Bristol submitted Pay Estimate 04 for NE Cape 2014 to R. Broyles on 8/5/2014. Invoice 34140087-04 was submitted to the USACE on 8/8/2014 in the amount of $3,810,977.11.
- Bristol submitted Pay Estimate 05 for NE Cape 2014 to R. Broyles on 9/11/2014. Invoice 34140087-05 was submitted on 9/12/2014 in the amount of $1,419,496.21.
- Bristol submitted invoice 34130068-07 for the 2013 NE Cape contract (W911KB-13-C-0004) on 9/12/2014 in the amount of $372,277.78.

- Bristol submitted the final invoice and release of claims to the USACE on 8/29/2014 for contract W911KB-06-D-0007 Task Order 0007. The invoice amount was $1,325,991.64.

Subcontractors

- Bristol has worked closely with surveying, laboratory, drilling and camp subcontractors to accomplish all field tasks.
    - Eco-Land surveyors have completed survey field activities and are processing the data deliverables.
    - Global Services deconstructed camp and prepped shipping containers for demobilization. All camp and catering personnel demobilized from the site.
    - The on-site certified lab provided by TestAmerica was shut down and shipped off-site. Lab personnel demobilized from the site.
    - GeoTek Alaska installed seven monitoring wells and demobilized from the site.
- Demobilization scheduling for Northland Services (Marine Transport) was strained due to weather and equipment failure. One landing craft for Northland was decommissioned for repair.

USACE and ADEC Correspondence

- 8/12/2014 – R. James emailed lab results to J. Craner and A. Shewman.
- 8/13/2014 – J. Sharp-Dahl emailed M. Utley variance requests from SGS laboratory. M. Utley accepted the requests with conditions.
- 8/13/2014 – V. Palmer emailed R. James to schedule Security Aviation flights for 8/18/2014 and 8/21/2014.
- 8/14/2014 – A. Shewman requested a field sketch of stockpile sample locations that could be supplied to Curtis Dunkin (ADEC). Bristol accommodated the request.
- 8/14/2014 – J. Sharp-Dahl sent a lab variance request to M. Utley. M. Utley approved the variance.
- 8/14/2014 – A. Shewman emailed R. James regarding investigations at Site 6. Bristol responded to A. Shewman's email.
- 8/15/2014 – A. Shewman emailed L. Kleppin regarding development/abandonment of monitoring wells at NE Cape.
- 8/17/2014 – R. James emailed NE Cape sample results to A. Shewman.
- 8/21/2014 – J. Sharp-Dahl emailed M. Utley with lab variance requests. The variance requests were accepted.
- 8/22/2014 – The USACE PDT passed along several suggestions to the Bristol field team regarding project closeout.
- 8/25/2014 – J. Craner requested soil results and requested info for CLIN 0019. Bristol responded on 8/26/2014.
- 8/26/2014 – R. James send two pay estimates to R. Broyles: one for the 2013 contract and one for the 2011 contract. The pay estimate for the 2011 contract was incorrect, so it was corrected and re-sent to R. Broyles on 8/27/2014.

- 8/27/2014 – Bristol received the signed pay estimate (for invoice 07) for the 2013 NE Cape contract.
- 8/28/2014 – Bristol sent the final release of claims to R. Broyles for the 2011 NE Cape contract (W911KB-06-D-0007 Task Order 0007).
- 8/29/2014 – J. Craner emailed Bristol regarding silica gel cleanup results for NE Cape. M. Hannah responded on 8/29/2014.
- 9/2/2014 – R. James emailed sample results from Site 10 to the USACE. R. Broyles responded on 9/2/2014 with directions for finishing work at Site 10.
- 9/8/2014 – 9/9/2014 – Bristol corresponded with R. Broyles and R. Taylor regarding an impending contract modification for the 2014 NE Cape contract. Bristol received the contract modification on 9/9/2014. The mod was signed and returned to the USACE.
- 9/11/2014 – The NE Cape exposure hours were sent to R. Broyles and cepoaso@usace.army.mil.
- 9/11/2014 – Pay Estimate 05 was submitted to R. Broyles for the 2014 NE Cape contract.
- 9/11/2014 – Bristol and USACE's J. Craner discussed the general schedule for the remainder of work at NE Cape.
- 9/12/2014 – Bristol emailed R. Broyles invoices for 2013 (Invoice 07) and 2014 (Invoice 05) NE Cape work.
- 9/16/2014 – USACE and Bristol discussed the transfer of survey data from ECOLAND, LLC.
- 9/18/2014 – Bristol coordinated the final USACE site visit with the USACE and Security Aviation.
- 9/19/2014 – Bristol emailed the USACE about marine transportation delays.
- 9/22/2014 – Bristol discussed scheduling with L. Geist and V. Palmer via email.
- 10/6/2014 – R. James emailed the UUSACE PDT with demobilization updates.
- 10/17/2014 – R. James emailed J. Craner results from Site 10 confirmation samples.

Project Schedule

- Bristol has demobilized from the site and has shifted work efforts to in-town demobilization, waste disposal and reporting.
- 11/14/2014 thru 11/21/2014 – Final cargo shipments into Anchorage
- December, 2014 – Waste disposal; Submittal of 2014 planning documents and 2013 RA Report
- January, 2015 – Submittal of draft 2014 RA Report
- March, 2015 – Submittal of draft-final 2014 RA Report
- Late April/Early May, 2015 – Submittal of final 2014 RA Report and contract closeout

Payments and Invoices

- Bristol submitted Pay Estimate 04 for NE Cape 2014 to R. Broyles on 8/5/2014. Invoice 34140087-04 was submitted to the USACE on 8/8/2014 in the amount of $3,810,977.11.
- Bristol submitted the final invoice and release of claims to the USACE on 8/29/2014 for contract W911KB-06-D-0007 Task Order 0007. The invoice amount was $1,325,991.64.

- Bristol submitted Pay Estimate 05 for NE Cape 2014 to R. Broyles on 9/11/2014. Invoice 34140087-05 was submitted on 9/12/2014 in the amount of $1,419,496.21.
- Bristol submitted invoice 34130068-07 for the 2013 NE Cape contract (W911KB-13-C-0004) on 9/12/2014 in the amount of $372,277.78.
- Bristol paid approximately $2,368,743 to subcontractors and vendors during the period 8/10/2014 thru 11/10/2014 for Contract W911KB-14-D-0006 TO 0002.
- Bristol paid approximately $226,727 to subcontractors and vendors during the period 8/10/2014 thru 11/10/2014 for Contract W911KB-06-D-0007 TO 0007.
- Bristol paid approximately $63,997 to subcontractors and vendors during the period 8/10/2014 thru 11/10/2014 for Contract W911KB-13-C-0004.

Work Underway

- Bristol is completing the 2014 planning documents and the 2013 RA Report, including the Site 28 Tech Memo.
- Bristol is receiving shipments at the Port of Anchorage and returning rental equipment. The final stages of demobilization are under way.
- Bulk bags are in transit to the disposal facility.
- Survey data is being processed and final survey deliverables are expected 12/17/2014.

Work Planned for the Upcoming Month

- Complete 2014 planning documents and 2013 RA Report and submit to the USACE.
- Return all rental equipment, including remote camp.
- Dispose of bulk bags and receive disposal paperwork from Waste Management.
- Work on the 2014 draft RA Report

Accident/Exposure Hours

- To date, Bristol has had 1166.25 exposure hours for contract W911KB-06-D-0007 TO 007
- To date, Bristol has had 1499 exposure hours for contract W911KB-13-C-0004
- To date, Bristol has had 10,256.50 exposure hours for contract W911KB-14-D-0006 TO 0002

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Monthly Status Report

November 11 through December 8, 2014

Submitted on 12/9/2014

Summary of Work Tasks November 11 through December 8, 2014

- Bristol is completing in-town demobilization activities.
  - Equipment has been returned to rental companies.
  - Bristol equipment is being organized at the storage yard.
  - Subcontractor equipment has been returned to the subcontractors.
- Pay estimates were submitted to R. Broyles for the 2013 and 2014 NE Cape contracts. The signed computation sheets were received from R. Broyles on 11/20/2014.
- Invoice 341300068-08 for contract W911KB-13-C-0004 was submitted on 11/25/2014 in the amount of $78,785.06. Invoice 34140087-06 for contract W911KB-14-D-0006 TO 0002 was submitted on 11/25/2014 in the amount of $72,718.55

Subcontractors

- Eco-Land surveyors have completed survey field activities and are processing the data deliverables.
- Global Services has received all remote camp supplies and has completed in-town demobilization activities.
- GeoTek Alaska has completed all fieldwork and Bristol has paid the final invoice.
- Bristol is in the process of closing subcontracts with Fairweather and TestAmerica.

USACE and ADEC Correspondence

- 11/12/2014 – R. James emailed J. Craner regarding monitoring wells analyses at NE Cape.
- 11/12/2014 – R. James emailed R. Broyles regarding email addresses for Michael and Eugene Toolie.
- 11/14/2014 – October exposure hours were emailed to R. Broyles and cepoaso@usace.army.mil
- 11/14/2014 – The monthly status report for August, September and October was emailed to V. Palmer, R. Broyles and M. Suprenant.
- 11/20/2014 – Pay estimates were submitted to R. Broyles for the 2013 and 2014 NE Cape contracts. The signed computation sheets were received from R. Broyles on 11/20/2014.

- 11/25/2014 – Bristol emailed two invoices to R. Broyles. Invoice 341300068-08 for contract W911KB-13-C-0004 was in the amount of $78,785.06. Invoice 34140087-06 for contract W911KB-14-D-0006 TO 0002 was in the amount of $72,718.55.
- 11/25/2014 – M. Suprenant emailed contract modification P00007 for contract W911KB-13-C-0004 to Bristol for a contract reduction in the amount of $282,185.88. Bristol signed the modification and returned a signed copy to M. Suprenant. The reduction came as a result of contaminants at NE Cape not being present in the expected quantity.
- 12/1/2014 – M. Suprenant emailed a fully executed signed copy of modification P00007 to Bristol.
- 12/3/2014 – R. James emailed A. Shewman field notes from Bristol's 2014 monitoring well sampling event and well installation.
- 12/5/2014 – R. James emailed V. Palmer the FRMD document request form for the final 2014 planning documents submittal. V. Palmer returned the completed form.
- 12/8/2014 – The NE Cape exposure hours for November, 2014 were submitted to R. Broyles and cepoaso@usace.army.mil.

Project Schedule

- Bristol has demobilized from the site and has shifted work efforts to in-town demobilization and reporting. Waste disposal is ongoing.
- 12/9/2014 thru 12/19/2014 – Anchorage demobilization and storage of equipment/supplies in Bristol yard
- 12/12/2014 – Submittal of final 2014 planning documents
- Late December, 2014 – Waste disposal; Submittal of 2013 RA Report
- January, 2015 – Submittal of draft 2014 RA Report
- March, 2015 – Submittal of draft-final 2014 RA Report
- Late April/Early May, 2015 – Submittal of final 2014 RA Report and contract closeout

Payments and Invoices

- Pay estimates were submitted to R. Broyles for the 2013 and 2014 NE Cape contracts. The signed computation sheets were received from R. Broyles on 11/20/2014.
- Invoice 341300068-08 for contract W911KB-13-C-0004 was submitted on 11/25/2014 in the amount of $78,785.06. Invoice 34140087-06 for contract W911KB-14-D-0006 TO 0002 was submitted on 11/25/2014 in the amount of $72,718.55
- Bristol paid approximately $25,018 to subcontractors and vendors during the period 11/11/2014 thru 12/8/2014 for Contract W911KB-14-D-0006 TO 0002.
- Bristol paid approximately $272,122 to subcontractors and vendors during the period 11/11/2014 thru 12/8/2014 for Contract W911KB-06-D-0007 TO 0007.
- Bristol paid approximately $9,493 to subcontractors and vendors during the period 11/11/2014 thru 12/8/2014 for Contract W911KB-13-C-0004.

Work Underway

- Bristol is editing, formatting, printing and binding the 2014 planning documents.
- The 2013 RA Report and the Site 28 Tech Memo are being finalized.
- Bristol is organizing equipment and supplies that have returned from NE Cape.
- Bulk bags are in transit to the disposal facility.
- Survey data is being processed and final survey deliverables are expected 12/17/2014.

Work Planned for the Upcoming Month

- Submit 2014 planning documents, 2013 RA Report and Site 28 Tech Memo.
- Closeout subcontracts.
- Dispose of bulk bags and receive disposal paperwork from Waste Management.
- Work on the 2014 draft RA Report.

Accident/Exposure Hours

- Year to date, Bristol has had 1,181.00 exposure hours for contract W911KB-06-D-0007 TO 007
- Year to date, Bristol has had 1,545.00 exposure hours for contract W911KB-13-C-0004
- Year to date, Bristol has had 10,694.00 exposure hours for contract W911KB-14-D-0006 TO 0002

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Monthly Status Report

December 9, 2014 through January 11, 2015

Submitted on 1/12/2015

Summary of Work Tasks December 9 through January 11, 2014

- Bristol is completing in-town demobilization activities.
  - The last pieces of rental equipment have been returned.
  - Repairs and maintenance are being performed on heavy equipment and vehicles that were used at NE Cape.
- Bristol finalized the 2014 Work Plan and submitted the document to the USACE on 12/18/2014.
- Bristol finalized the 2013 HTRW RA Report and the Site 28 Tech Memo Addendum. The reports are currently with Bristol's technical editing/formatting team and will be submitted on 1/13/2015.
- Bristol has received the very first disposal documents for Site 28 sediment and miscellaneous debris.
- Bristol is working on the 2014 HTRW RA Report and the CDQR. Anticipated delivery date is 1/30/2015.

Subcontractors

- Eco-Land surveyors submitted the final data delivery package on 12/10/2014.
- Bristol is in the process of closing subcontracts with Fairweather, TestAmerica and Global Services

USACE and ADEC Correspondence

- 12/22/2014 – J. Craner emailed R. James with some minor corrections that needed to be made to the 2014 work plan regarding the FRMD number of the document. Bristol made the changes and delivered the edited sheets and CDs to the USACE on 12/30/2014.
- 12/29/2014 – J. Craner emailed copies of signed manifests to R. James. The manifests were related to miscellaneous debris shipped from NE Cape.
- 1/8/2015 – R. James emailed V. Palmer and J. Craner with questions regarding final report deliverables. The FRMD request sheet was submitted to the USACE for the final 2013 reports. The USACE returned the FRMD document sheet to Bristol.

Project Schedule

- Waste disposal is ongoing
- 1/12/2015 thru 1/23/2015 – Maintenance and repair to heavy equipment used at NE Cape.
- 1/13/2015 – Submittal of final 2013 HTRW RA Report and Site 28 Tech Memo Addendum
- 1/30/2015 – Submittal of draft 2014 RA Report
- March, 2015 – Submittal of draft-final 2014 RA Report
- Late April/Early May, 2015 – Submittal of final 2014 RA Report and contract closeout

Payments and Invoices

- Bristol paid approximately $76,677 to subcontractors and vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-14-D-0006 TO 0002.
- Bristol paid approximately $34,854 to vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-13-C-0004.
- Bristol paid $6,250 to subcontractors and vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-06-D-0007 TO 0007.

Work Underway

- Bristol is printing and binding the 2013 HTRW RA Report and will submit on Tuesday, 1/13/2015.
- The 2014 HTRW RA Report and CDQR are currently being written.
- Bristol is organizing equipment and supplies that have returned from NE Cape and performing maintenance and repairs on heavy equipment.
- Bulk bags are in transit to the disposal facility.

Work Planned for the Upcoming Month

- Submit 2013 RA Report, Site 28 Tech Memo and the Draft 2014 HTRW RA Report
- Closeout subcontracts.
- Complete waste disposal and receive disposal paperwork from Waste Management.

Accident/Exposure Hours

- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 181.00 hours for contract W911KB-06-D-0007 TO 007
- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 210.75 hours for contract W911KB-13-C-0004
- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 352.50 hours for contract W911KB-14-D-0006 TO 0002

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Monthly Status Report

January 12, 2015 through February 11, 2015

Submitted on 2/11/2015

Summary of Work Tasks January 12 through February 11, 2015

- Bristol is completing in-town demobilization activities.
  - Repairs and maintenance are being performed on heavy equipment and vehicles that were used at NE Cape.
  - Conex containers are being organized in the Bristol storage yard.
- Bristol finalized the 2013 HTRW RA Report and the Site 28 Tech Memo Addendum. The reports are currently with Bristol's technical editing/formatting team and will be submitted on 1/13/2015.
- Bristol has received the very first disposal documents for Site 28 sediment and miscellaneous debris.
- Bristol is working on the 2014 HTRW RA Report and the CDQR. Anticipated delivery date is 1/30/2015.

Subcontractors

- Eco-Land surveyors submitted the final data delivery package on 12/10/2014.
- Bristol is in the process of closing subcontracts with Fairweather, TestAmerica and Global Services

USACE and ADEC Correspondence

- 12/22/2014 – J. Craner emailed R. James with some minor corrections that needed to be made to the 2014 work plan regarding the FRMD number of the document. Bristol made the changes and delivered the edited sheets and CDs to the USACE on 12/30/2014.
- 12/29/2014 – J. Craner emailed copies of signed manifests to R. James. The manifests were related to miscellaneous debris shipped from NE Cape.
- 1/8/2015 – R. James emailed V. Palmer and J. Craner with questions regarding final report deliverables. The FRMD request sheet was submitted to the USACE for the final 2013 reports. The USACE returned the FRMD document sheet to Bristol.

Project Schedule

- Waste disposal is ongoing
- 1/12/2015 thru 1/23/2015 – Maintenance and repair to heavy equipment used at NE Cape.
- 1/13/2015 – Submittal of final 2013 HTRW RA Report and Site 28 Tech Memo Addendum
- 1/30/2015 – Submittal of draft 2014 RA Report
- March, 2015 – Submittal of draft-final 2014 RA Report
- Late April/Early May, 2015 – Submittal of final 2014 RA Report and contract closeout

Payments and Invoices

- Bristol paid approximately $76,677 to subcontractors and vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-14-D-0006 TO 0002.
- Bristol paid approximately $34,854 to vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-13-C-0004.
- Bristol paid $6,250 to subcontractors and vendors during the period 12/9/2014 thru 1/11/2015 for Contract W911KB-06-D-0007 TO 0007.

Work Underway

- Bristol is printing and binding the 2013 HTRW RA Report and will submit on Tuesday, 1/13/2015.
- The 2014 HTRW RA Report and CDQR are currently being written.
- Bristol is organizing equipment and supplies that have returned from NE Cape and performing maintenance and repairs on heavy equipment.
- Bulk bags are in transit to the disposal facility.

Work Planned for the Upcoming Month

- Submit 2013 RA Report, Site 28 Tech Memo and the Draft 2014 HTRW RA Report
- Closeout subcontracts.
- Complete waste disposal and receive disposal paperwork from Waste Management.

Accident/Exposure Hours

- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 181.00 hours for contract W911KB-06-D-0007 TO 007
- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 210.75 hours for contract W911KB-13-C-0004
- During the period 12/9/2014 thru 1/11/2015, Bristol has worked 352.50 hours for contract W911KB-14-D-0006 TO 0002

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2013 and2014 Northeast Cape HTRW Remedial Actions
Contracts: W911KB-13-C-0004, and W911KB-14-D-0006 TO 0002
Monthly Status Report
February 12, 2015 through April 15, 2015

Submitted on 4/16/2015

Summary of Work Tasks February 12 through April 15, 2015

- Primary work tasks during this period focused on the 2014 RA Report.
- Bristol submitted the draft 2014 HTRW RA Report and the CDQR on 1/30/2015. Comments have been received and addressed. A comment resolution meeting was held with the USACE on 4/1/2015. Bristol initiated work on the draft-final 2014 RA Report. Anticipated submittal of the draft-final 2014 RA Report is 4/24/2015.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project.

USACE and ADEC Correspondence

- 02/12/2015 – J. Craner emailed G. Jarrell, R. Broyles and V. Palmer with a portion of the USACE's comments on the draft 2014 RA Report.
- 02/25/2015 – Bristol received final payment for the 2013 NE Cape contract in the amount of $10,114.31.
- 03/6/2015 – J. Craner emailed the remaining comments from A. Shewman and S. Benjamin on the 2014 RA Report.
- 3/16/2015 – Bristol returned responses to the USACE comments on the 2014 RA Report.
- 3/17/2015 – J. Craner acknowledges receipt of Bristol's responses to USACE comments.
- 3/23/2015 – R. Broyles emailed Bristol to request a comment resolution meeting. Bristol provided available times to the USACE and a meeting was set for 4/1/2015 at 1:30 PM at the USACE offices.
- 3/31/2015 – Bristol submitted pay estimate 08 for the 2014 NE Cape project in the amount of $52,915.87 to R. Broyles. R. Broyles signed the pay estimate and returned to Bristol on 4/1/2015. Bristol sent the R. Broyles invoice 34140087-08 on 4/3/2015.
- 4/1/2015 – G. Jarrell, R. James and M. Hannah attended a comment resolution meeting at the USACE offices at 1:30 PM. In attendance: V. Palmer, A. Shewman, J. Craner, R. Broyles, L. Geist and S. Benjamin.
- 4/2/2015 – J. Craner emailed to Bristol the USACE's acceptance of Bristol's responses to comments on the draft 2014 RA Report. The comment sheets contained notes from the comment resolution meeting conducted on 4/1/2015.

- 4/7/2015 – Bristol emailed A. Shewman a revised write-up of the MNA section for the 2014 RA Report for review.

Project Schedule

- 4/15/2015 thru 4/24/2015 – The draft-final 2014 NE Cape RA Report is being edited and formatted and will be submitted to the USACE by 4/24/2015.
- 5/1/2015 – Work is anticipated to begin on the 2015 Work Plan Addendum for monitoring well sampling in August, 2015. Anticipated submittal date for Work Plan Addendum is mid- to late-may, 2015.
- May, 2015 – Receipt of draft-final 2014 RA Report comments.
- Early June, 2015 – Submittal of final 2014 NE Cape RA Report.

Payments and Invoices

- Bristol paid approximately $1,193.05 to vendors during the period 02/12/2015 thru 4/15/2015 for Contract W911KB-14-D-0006 TO 0002.
- Bristol received payment for invoice 34130068-09 on 2/25/2015 in the amount of $10,114.31
- Bristol sent invoice 34140087-08 on 4/3/2015 in the amount of $52.915.87.

Work Underway

- Bristol is in the process of editing and formatting the draft-final 2014 HTRW RA Report and will submit by Friday, 4/24/2015.
- Bristol is performing maintenance and repairs on heavy equipment.

Work Planned for the Upcoming Month

- Submit 2014 draft-final RA Report, Site 28 Tech Memo and the Draft 2014 HTRW RA Report

Accident/Exposure Hours

- During the period 2/12/2015 thru 4/15/2015, Bristol has worked 1,289.75 hours for contract W911KB-13-C-0004
- During the period 2/12/2015 thru 4/15/2015, Bristol has worked 335.50 hours for contract W911KB-14-D-0006 TO 0002

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2014 Northeast Cape HTRW Remedial Actions
Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
April 16, 2015 through June 23, 2015

Submitted on 6/24/2015

Summary of Work Tasks April 16 through June 23, 2015

- Primary work tasks during this period focused on the 2014 RA Report and the Work Plan Addendum for work to be completed in August, 2015.
- Bristol submitted the draft-final 2014 HTRW RA Report on 4/24/2015. Some additional comments have been received from the USACE and will be addressed prior to submission of the final report.
- The draft Work Plan Addendum was submitted to the USACE on 6/23/2015.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project.

USACE and ADEC Correspondence

- 04/17/2015 – The monthly status report for time period February 12 thru April 15 was submitted to Palmer, Broyles and Suprenant via email.
- 4/17/2015 – Bristol received Shewman's comments on the MOC monitoring well natural attenuation write-up for the 2014 RA Report. Bristol's James acknowledged receipt via email.
- 4/24/2015 – Bristol submitted the draft-final RA Report. A transmittal letter was emailed to the USACE's Broyles, Craner and Palmer.
- 4/28/2015 – Bristol's Hannah emailed USACE's Utley and Benjamin regarding SEDD. Utley responded via email on 4/28/2015.
- 4/30/2015 – Craner emailed James and Jarrell (Bristol), Palmer (USACE), and Broyles (USACE) acknowledging receipt of the draft-final RA Report. Craner provided one additional correction that needed to be made to Figure 14 and said that the rest of the USACE's comments had been adequately addressed, pending review from a select few. Bristol's James responded and noted that the change would be made to Figure 14.
- 5/4/2015 – Bristol's Hannah emailed Utley regarding SEDD files.
- 5/4/2015 – Bristol submitted pay estimate 09 for the 2014 NE Cape project in the amount of $15,950.51 to R. Broyles. R. Broyles signed the pay estimate and returned to Bristol on 5/4/2015.

- 5/4/2015 – Bristol submitted the monthly record of work-related injuries/illnesses & exposure forms for April, 2015.
- 5/5/2015 – Bristol submitted invoice 34140087-09 to Broyles in the amount of $15,950.51.
- 5/6/2015 – O. Northern emailed B. Burked contract modification 03 in the amount of $221,235.00.
- 5/11/2015 – USACE's Craner emailed Bristol USACE comments on the draft-final RA report. Craner noted that S. Benjamin had some outstanding chemistry comments that needed to be addressed. Craner provided suggestions on how to restructure Appendix I.
- 6/1/2015 – Bristol emailed A. Shewman an updated NE Cape Schedule.
- 6/18/2015 – Bristol emailed the USACE to inform them that the Work Plan Addendum for 2015 sampling would be delivered later than expected.
- 6/23/2015 – The Work Plan Addendum for 2015 monitoring well sampling and landfill cap inspections was delivered to J. Craner.
- 6/23/2015 – Bristol submitted the monthly record of work-related injuries/illnesses & exposure forms for May, 2015

Project Schedule

- 6/24/2015 thru 8/9/2015 – Bristol will prepare equipment/supplies for the monitoring well sampling and landfill cap inspections currently scheduled to begin August 10, 2015.
- Bristol awaits comments from the ADEC on the 2014 draft-final RA report. Comments will be addressed and a final report will be submitted once comments are received.
- Bristol awaits comments on the Work Plan Addendum submitted 6/23/2015. Bristol will address comments and submit the final work plan following receipt of comments and prior to mobilizing for the field effort in August, 2015.

Payments and Invoices

- Bristol paid approximately $4,412.80 to vendors during the period 4/16/2015 thru 6/23/2015.
- Bristol received payment for invoice 34140087-09 on 5/12/2015 in the amount of $15,950.51

Work Underway

- Bristol is in the process of addressing comments on the draft-final report.
- Bristol is planning for the upcoming monitoring well sampling and landfill cap inspections slated for August, 2015.

Work Planned for the Upcoming Month

- Bristol will submit the final Work Plan Addendum that addresses USACE and ADEC comments.

- Bristol will ship some supplies/equipment to Nome in preparation for August sampling and landfill cap inspections.

Accident/Exposure Hours

- During the period 4/16/2015 thru 6/15/2015, Bristol has worked 567 hours for contract W911KB-14-D-0006, Task Order 0002.

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2014 Northeast Cape HTRW Remedial Actions
Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
24 June 2015 through 9 August 2015

Submitted on 9 August 2015

Summary of Work Tasks 24 June 2015 through 7 August 2015

- Primary work tasks during this period focused on the responding to stakeholder comments on the 2014 Draft-Final RA Report (Revision 1) and the Work Plan Addendum for work to be completed in August 2015.
- The final Work Plan Addendum was submitted to the USACE on 7 August 2015 (Serialized Letter H-0018).
- Conducted mobilization activities for scoped 2015 groundwater sampling and landfill inspection event.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project.

USACE and ADEC Correspondence

- 14 July 2015 - Informed USACE of tentative schedule of week of August 10th to perform scheduled fieldwork at NE Cape. Informed by Ron Broyles that ADEC has until 24 July 2015 to submit comments on the Work Plan Addendum.
- 15 July 2015 - Submitted copies of SWPPP NOTs to Jeremy Craner as per request.
- 21 July 2015 - Submitted Bristol RTCs for Work Plan Addendum to USACE for final approval.
- 22 July 2015 - Notified by Valerie Palmer that ADEC and ACAT have confirmed that they will have comments on the Draft-Final RA Report by the end of the day (22 July 2015).
- 23 July 2015 - Received ADEC and ACAT comments on the Draft-Final RA Report from Valerie Palmer.
- 23 July 2015 - Received one more set of comments on Draft-Final RA Report (Revision 1) from TAPP advisor. Comments forwarded to Bristol from Valerie Palmer.
- 27 July 2015 - Bristol received information from Valerie Palmer outlining the yet to be resolved USACE comments from the Draft-Final 2014 RA Report.

- 27 July 2015 - Bristol received clarification from Valerie Palmer about which USACE comments were yet to be resolved for the Draft-Final 2014 RA report, and a reminder that USACE comments are not to be included in the final report; only stakeholders.
- 28 July 2015 - Bristol emailed figure changes to USACE Environmental Engineer for acceptance of changes prior to his departure.
- 28 July 2015 - Bristol received acceptance of the proposed figure changes with one caveat.
- 28 July 2015 - Bristol's Hannah emailed Valerie Palmer to ask for a digital copy of the Jacobs 5 year review.
- 28 July 2015 - Valerie Palmer sent an email stating that the 5 year review document would be available on AMRDEC.
- 30 July 2015 - Bristol's Tyler Ellingboe sent an email asking if Bristol's response to the 2014 Work Plan Addendum were acceptable.
- 30 July 2015 - Bristol received all comment forms for the 2014 Work Plan Addendum from Valerie Palmer with all comments accepted and one comment needing clarification. In addition Palmer instructed Bristol to finalize the Work Plan despite not having received work plan comments from USACE.
- 3 August 2015 - Bristol submitted an inquiry to USACE Project Manager Valerie Palmer as to whether or not the Work Plan Addendum needed FRMD & ARIMS numbers
- 3 August 2015 - Valerie Palmer sent a copy of the FRMD document request form to Bristol.
- 3 August 2015 - Bristol submitted an FRMD document request form to USACE Project Manager Valerie Palmer. Bristol Received FRMD numbers from USACE Project Manager Valerie Palmer.

Project Schedule

- 10 August 2015 thru 17 August 2015 – Bristol will conduct field work for the 2015 the monitoring well sampling and landfill cap inspections.

- Bristol will answer comments from the ADEC on the 2014 draft-final RA report. Comments will be addressed and a final report will be submitted once comments are received.

Payments and Invoices

- No invoices submitted to USACE during current period.

Work Underway

- Bristol is in the process of addressing comments on the draft-final report.
- Bristol is planning for the upcoming monitoring well sampling and landfill cap inspections slated for 10-17 August 2015.

Work Planned for the Upcoming Month

- Bristol will continue to address stakeholder comments on the draft-final RA Report.
- Bristol will initiate and finish scheduled fieldwork including the NE Cape monitoring well sampling and landfill cap inspections.

Accident/Exposure Hours

- Project accident/exposure hours worked during the period of 16 June 2015 through 31 July 2015 by Bristol and key subcontractors was 191.0. The 2015 project total of hours worked is 2,380.50. The July 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 9 August 2015.

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Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
10 August 2015 through 11 September 2015

Submitted on 11 September 2015

Summary of Work Tasks 10 August 2015 through 11 September 2015

- Primary work tasks during this period focused on the responding to stakeholder comments on the 2014 Draft-Final RA Report (Revision 1).
- Conducted mobilization activities for scoped 2015 groundwater sampling and landfill inspection event.
- Conducted 2015 field effort at NE Cape including MNA groundwater sampling and landfill cap inspection. All scoped project wells were sampled successfully.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 10 August 2015 – Notified by USACE (J. Craner) that 2014 Work Plan Addendum CDs did not contain the final complete .pdf. Re-issued new CDs and delivered to USACE.
- 17 August 2015 – Bristol (E. Barnhill) submittal of DQCR reports to USACE (V. Palmer) for 2015 field effort that occurred 11 August 2015 to 15 August 2015.
- 18 August 2015 – Notified by USACE (V. Palmer) that additional ADEC comments were received by USACE on 17 August 2015. USACE will review comments and forward the ones which Bristol will need to help address.
- 21 August 2015 – USACE (V. Palmer) forwarded remaining ADEC comments that need addressed for the Final HTRW Report.
- 9 September 2015 – Bristol submittal of August 2015 exposure hour report to USACE CEPOASO.
- 9 September 2015 – Bristol submittal of POA 15 (pay estimate 34140087-11) to USACE COR for pre-approval. Received signed POA 15 from USACE COR.

- 11 September 2015 – Submittal of pay estimate 34140087-11 to USACE COR under serial letter H-0019. Also submitted August/September Monthly Status Report and updated schedule.

Project Schedule

- 2015 groundwater sampling and landfill cap inspection field effort is complete. 2015 field effort performed from 10 August to 17 August 2015.
- Bristol will continue to address ADEC comments on the Draft Final HTRW Report. Bristol will prepare and submit Final HTRW Report once responses to comments are accepted.
- Following results of analytical data packages, Bristol will perform chemical data quality review and 2015 reporting.

Payments and Invoices

- Pay Estimate 34140087-11 submitted on 11 September under serial letter H-0019. Pay estimate covers period from 24 June 2015 to 11 September 2015.

Work Underway

- Bristol is in the process of addressing comments on the draft-final report.
- 2015 MNA groundwater sampling and landfill cap inspection field effort is complete. 2015 field effort performed 10 August to 17 August 2015.

Work Planned for the Upcoming Month

- Bristol will continue to address stakeholder comments on the draft-final RA Report.
- Bristol awaiting final data packages from project laboratory for the 2015 field effort. Once data packages are received Bristol will perform chemical data quality review and prepare report.

Accident/Exposure Hours

- Project accident/exposure hours worked during the month of August 2015 by Bristol and key subcontractors was 394.25. The 2015 project total of hours through 31 August 2015 worked is 2,774.75. The August 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 8 September 2015.

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2014 Northeast Cape HTRW Remedial Actions
Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
12 September 2015 through 8 October 2015

Submitted on 8 October 2015

Summary of Work Tasks 12 September 2015 through 8 October 2015

- Primary work tasks during this period focused on the responding to stakeholder comments on the 2014 Draft-Final RA Report (Revision 1).
- Conducted demobilization activities for scoped 2015 groundwater sampling and landfill inspection event.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 2 October 2015 – Bristol PM (T. Ellingboe) sent e-mail to USACE COR regarding recommended contract de-obligation amount. CLIN 0040 (-$21,030) and CLIN 0041 (-$2,731).
- 6 October 2015 – Bristol PM sent September 2015 exposure hour report to USACE CEPOASO. Report was corrected and resubmitted on 8 October 2015.
- 6 October 2015 – Bristol Chemist (M. Hannah) e-mailed USACE PM (V. Palmer) regarding 2014 Draft Final RTC #21 and 22. Bristol asking for additional feedback in order to properly address comments.
- 7 October 2015 – Bristol received response back from USACE (L. Geist) regarding ADEC comments 20 and 21 on the Draft Final HTRW Report.

Project Schedule

- Bristol will continue to address ADEC comments on the Draft Final HTRW Report.
- Bristol will soon schedule a comment resolution meeting with the ADEC and USACE for the Draft Final HTRW Report. Bristol will prepare and submit Final HTRW Report once responses to comments are accepted.

- Following results of analytical data packages, Bristol will perform chemical data quality review and 2015 reporting.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol is in the process of addressing comments on the Draft-Final HTRW Report.
- Bristol awaiting final data package for 2015 field effort. Bristol has started preparation of reporting document for the 2015 field effort.

Work Planned for the Upcoming Month

- Bristol will continue to address stakeholder comments on the draft-final RA Report.
- Bristol awaiting final data packages from project laboratory for the 2015 field effort. Once data packages are received Bristol will perform chemical data quality review and prepare report.

Accident/Exposure Hours

- Project accident/exposure hours worked during the month of September 2015 by Bristol and key subcontractors was 64.5. The 2015 project total of personnel hours worked through 30 September 2015 is 2,839.25. The September 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 8 October 2015.

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2014 Northeast Cape HTRW Remedial Actions
Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
9 October 2015 through 6 November 2015

Submitted on 6 November 2015

Summary of Work Tasks 9 October 2015 through 6 November 2015

- Primary work tasks during this period focused on the responding to stakeholder comments on the 2014 Draft-Final RA Report (Revision 1).
- Complete demobilization activities for scoped 2015 groundwater sampling and landfill inspection event.
- Begin preparation of 2015 MNA and landfill cap inspection report.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 12 October 2015 – Bristol submitted responses to USACE regarding additional ADEC comments on Draft-Final HTRW Report.
- 16 October 2015 – Bristol received e-mail from USACE PM (Palmer) requesting comment resolution meeting between Bristol/USACE to address ADEC comments. Meeting scheduled for 20 October 2015. USACE also asked about status of Bristol responses to ACAT and TAPP comments.
- 19 October 2015 – Bristol submitted responses to ACAT/TAPP comments on the Draft-Final HTRW Report to the USACE.
- 20 October 2015 – Received previous e-mail backup from USACE (Craner) regarding key 2014 conversations between ADEC (Dunkin) and USACE PM (Palmer).
- 20 October 2015 – Bristol provided USACE with Bristol responses to ACAT comments in table format.
- 27 October 2015 – Bristol submitted revised responses to ADEC comments on the Draft-Final HTRW Report to the USACE for review and forwarding to the ADEC.

- 5 November 2015 – Bristol notified by USACE (Craner) that USACE had forwarded Bristol responses to ADEC comments on the Draft-Final HTRW Report to ADEC for review and acceptance.
- 6 November 2015 – Bristol submittal of October 2015 exposure hours to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE comments on the Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.
- Following results of analytical data package from August 2015 NE Cape sampling event, Bristol will perform chemical data quality review and 2015 reporting.
- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.
- Bristol awaiting final data package for 2015 field effort. Bristol has started preparation of reporting document for the 2015 field effort.

Work Planned for the Upcoming Month

- Bristol will incorporate accepted responses to stakeholder comments on Draft-Final HTRW Report once received and following a potential comment resolution meeting.
- Bristol awaiting final data packages from project laboratory for the 2015 field effort. Once data packages are received Bristol will perform chemical data quality review and prepare report.

Accident/Exposure Hours

- Project accident/exposure hours worked during the month of October 2015 by Bristol and key subcontractors was 136.0. The 2015 project total of personnel hours worked through 31 October 2015 is 2,975.25. The October 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 6 November 2015.

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Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
7 November 2015 through 8 December 2015

Submitted on 8 December 2015

Summary of Work Tasks 9 October 2015 through 6 November 2015

- Bristol awaiting review of responses to stakeholder (ADEC, ACAT, TAPP Advisor) comments on 2014 Draft-Final RA Report (Revision 1).
- Continue preparation of 2015 MNA and landfill cap inspection report.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 10 November 2015 – Notified by USACE (Craner) that Bristol/USACE responses to ACAT comments on the Draft-Final HTRW Report have been submitted to ACAT for review and approval.
- 13 November 2015 – Notified by USACE (Craner) that Bristol/USACE responses to TAPP Advisor (Scrudato) comments on the Draft-Final HTRW Report have been submitted to TAPP Advisor for review and approval.
- 13 November 2015 - Notified by USACE (Craner) that USACE followed up with ADEC (Dunkin) regarding status of review of Bristol/USACE comments on the Draft-Final HTRW Report. ADEC hopeful to respond during week of 23 November 2015.
- 7 December 2015 – Bristol submittal of November 2015 exposure hours to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE comments on the Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.
- Following results of analytical data package from August 2015 NE Cape sampling event, Bristol will perform chemical data quality review and 2015 reporting.

- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.
- Bristol has started preparation of reporting document for the 2015 groundwater monitoring and landfill cap inspection field effort.

Work Planned for the Upcoming Month

- Bristol will incorporate accepted responses to stakeholder comments on Draft-Final HTRW Report once received and following a potential comment resolution meeting.
- Bristol will continue to prepare 2015 groundwater monitoring and landfill cap inspection reports.

Accident/Exposure Hours

- Project accident/exposure hours worked during the month of November 2015 by Bristol and key subcontractors was 57.0. The 2015 project total of personnel hours worked through 30 November 2015 is 3,032.25. The November 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 7 December 2015.

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2014 Northeast Cape HTRW Remedial Actions
Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
9 December 2015 through 8 January 2016

Submitted on 8 January 2016

Summary of Work Tasks 9 December 2015 through 8 January 2016

- Bristol awaiting review of responses to stakeholder (ADEC, ACAT, TAPP Advisor) comments on 2014 Draft-Final RA Report (Revision 1).
- Continued preparation of 2015 MNA and landfill cap inspection report.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 18 December 2015 – Provided brief update to USACE PM (Palmer) that Bristol currently preparing 2015 Annual Groundwater Monitoring and Landfill Inspection Reports. Final data package was delayed and not received from the project laboratory until 16 November 2015 which will delay delivery of the draft deliverables. Draft deliverables should be completed and submitted by early to mid-January.
- 6 January 2016 – Bristol submittal of December exposure hours to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE responses to comments on the 2014 Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.
- Bristol currently preparing 2015 Draft Annual Groundwater Sampling and Landfill Inspection Reports.
- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.
- Bristol in process of completing Draft 2015 Annual Groundwater Monitoring and Landfill Cap Inspection reports.

Work Planned for the Upcoming Month

- Bristol will incorporate accepted responses to stakeholder comments on Draft-Final HTRW Report once received and following a potential comment resolution meeting.
- Bristol will finalize and submit Draft Annual Groundwater Monitoring and Landfill Cap Inspection reports.

Accident/Exposure Hours

- A total of 201 project accident/exposure hours were worked during the month of December 2015 by Bristol and key subcontractors. The 2015 project total of personnel hours worked through 31 December 2015 was 3,233.25. The December 2015 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 5 January 2016.

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Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
9 January 2016 through 8 February 2016

Submitted on 8 February 2016

Summary of Work Tasks 9 January 2016 through 8 February 2016

- Bristol awaiting review of responses to stakeholder (ADEC, ACAT, TAPP Advisor) comments on 2014 Draft-Final RA Report (Revision 1).
- Bristol submitted Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Inspection Reports to USACE for review and approval.
- Bristol awaiting ADEC/USACE responses to Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Inspection Reports.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 12 January 2016 – Submitted serial letter H-0020 for the submittal of the Draft 2015 Landfill Periodic Visual Inspection Report.
- 12 January 2016 – Notified by USACE PM (Palmer) that ADEC review of the 2014 RA Report should be completed by first week of January. ADEC has not yet completed their review.
- 12 January 2016 – Notified USACE PM that Bristol would be submitting the draft 2015 Groundwater Monitoring Report the week of 18 – 22 of January.
- 19 January 2016 – Submitted serial letter H-0021 for the submittal of the Draft 2015 Annual Groundwater Monitoring Report.
- 8 February 2016 – Bristol submittal of January 2016 exposure hours to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE responses to comments on the 2014 Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.
- Bristol currently awaiting ADEC/USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports
- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.
- Bristol awaiting ADEC/USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports.

Work Planned for the Upcoming Month

- Bristol will incorporate accepted responses to stakeholder comments on Draft-Final HTRW Report once received and following a potential comment resolution meeting.
- Bristol will incorporate accepted responses to stakeholder comments on Draft Annual Groundwater Monitoring and Landfill Cap Inspection reports.

Accident/Exposure Hours

- A total of 160.25 project accident/exposure hours were worked during the month of January 2016 by Bristol and key subcontractors. The 2016 project total of personnel hours worked through 31 January 2016 was 160.25. The January 2016 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 8 February 2016.

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Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
9 February 2016 through 7 March 2016

Submitted on 7 March 2016

Summary of Work Tasks 9 February 2016 through 7 March 2016

- Bristol awaiting review of responses to stakeholder (ADEC, ACAT, TAPP Advisor) comments on 2014 Draft-Final RA Report (Revision 1).
- Bristol received USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Visual Inspection Reports. Bristol has started to address USACE comments.
- Bristol awaiting ADEC responses to Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Visual Inspection Reports.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 29 February 2016 – Received USACE comments on 2015 Draft Groundwater Sampling Report
- 29 February 2016 – Received USACE comments on 2015 Landfill Periodic Visual Inspection Report
- 1 March 2016 – Submitted e-mail to USACE COR (Broyles) indicating that contract period of performance needs to be extended and questioning if it would be a good time to issue contract modification for remaining contract de-obligation amount.
- 7 March 2016 – Submitted project accident/exposure hours worked during the month of February 2016 to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE responses to comments on the 2014 Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.

- Bristol recently received USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Visual Inspection reports. Bristol has started addressing USACE comments and is awaiting receipt of ADEC comments on both draft reports.
- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.
- Bristol is currently addressing USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports. Bristol awaiting ADEC comments on both Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports.

Work Planned for the Upcoming Month

- Bristol will incorporate accepted responses to stakeholder comments on Draft-Final HTRW Report once received and following a potential comment resolution meeting.
- Bristol will prepare and incorporate accepted responses to stakeholder comments on Draft Annual Groundwater Monitoring and Landfill Cap Inspection reports.

Accident/Exposure Hours

- A total of 19.75 project accident/exposure hours were worked during the month of February 2016 by Bristol and key subcontractors. The 2016 project total of personnel hours worked through 29 February 2016 was 180.0. The February 2016 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 7 March 2016.

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Contract W911KB-14-D-0006, Task Order 0002
Monthly Status Report
8 March 2016 through 5 April 2016

Submitted on 5 April 2016

Summary of Work Tasks 8 March 2016 through 5 April 2016

- Bristol awaiting ADEC acceptance/rejection of Bristol responses to ADEC comments on 2014 Draft-Final RA Report (Revision 1).
- Bristol awaiting ADEC comments on Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Visual Inspection Report.
- Bristol submitted responses to initial USACE comments on the Draft 2014 Landfill Visual Inspection Report.
- Bristol currently in the process of addressing USACE comments on the Draft 2014 Groundwater Monitoring Report.

Subcontractors

- Bristol is self-performing remaining tasks for the Northeast Cape project. No subcontractors used for 2015 field effort.

USACE and ADEC Correspondence

- 9 March 2016 – Bristol PM (Ellingboe) notifying USACE PM (Palmer) that Bristol currently responding to received USACE comments on 2015 Landfill Periodic Visual Inspection Report. Bristol requested and received proper reference for *First Periodic Review Report, Site 7 Cargo Beach Road Landfill (USACE, 2015)*.
- 10 March 2016 – Bristol PM (Ellingboe) e-mail to USACE PM (Palmer) addressing incompletion of field forms and Bristol proposed action to remedy deficiency. Received response from USACE PM (Palmer) agreeing to proposed remedy of completing forms where information is known. Changes to field forms will be initialed and dated accordingly.
- 11 March 2016 – Bristol Chemist (Hannah) e-mail to USACE Chemist (Benjamin) regarding Benjamin Review Comment #1 on 2015 Landfill Visual Inspection Report. Bristol Chemist (Hannah) notified USACE Chemist (Benjamin) that dissolved metals not showing up in SEDD checker although the results are showing up in the xml file. May need input from USACE Chemist (Utley).

- 17 March 2016 – Bristol Chemist (Hannah) e-mail to USACE Chemist (Benjamin) regarding chromatogram interpretations of NE Cape groundwater samples for DRO. Interpretation leads one to believe that low-level DRO contamination appears due to instrument use at the project laboratory and not from pumps used in the field during sample collection.
- 21 March 2016 – Bristol PM (Ellingboe) e-mail to USACE PM (Palmer) regarding status of Bristol RTCs. Bristol awaiting input from USACE Chemist (Benjamin) on Bristol's chromatogram interpretation. Bristol PM (Ellingboe) submitted responses to USACE comments on the 2015 Landfill Visual Inspection Report.
- 21 March 2016 – Bristol PM (Ellingboe) and USACE PM (Palmer) e-mail correspondence regarding status of Bristol responses to ACAT and TAPP comments on 2014 NE Cape HTRW Report. Notified by USACE PM (Palmer) to proceed with incorporating Bristol responses to ACAT/TAPP comments into the report and that ACAT/TAPP acceptance/rejection of Bristol responses will not be forthcoming.
- 25 March 2016 – E-mail correspondence from USACE Chemist (Benjamin) to Bristol Chemist (Hannah) regarding recommended flagging of data.
- 28 March 2016 – Multiple e-mail correspondence between Bristol Chemist (Hannah) and USACE Chemist (Benjamin) regarding interpretation of laboratory data, chromatograms, and proper flagging.
- 5 April 2016 – Submitted project accident/exposure hours worked during the month of March 2016 to USACE CEPOASO.

Project Schedule

- Bristol currently awaiting ADEC review of Bristol/USACE responses to comments on the 2014 Draft-Final HTRW Report. Bristol will schedule a comment resolution meeting with the ADEC and USACE, if requested.
- Bristol received USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and Draft 2015 Landfill Cap Visual Inspection reports. Bristol has started addressing USACE comments and is awaiting receipt of ADEC comments on both draft reports.
- Schedule update will be provided with next pay estimate.

Payments and Invoices

- No pay estimate submitted this period.

Work Underway

- Bristol awaiting ADEC acceptance/rejection of Bristol/USACE responses to comments on Draft-Final HTRW Report.

- Bristol is currently addressing USACE comments on the Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports. Bristol awaiting ADEC comments on both Draft 2015 Annual Groundwater Monitoring Report and 2015 Landfill Cap Inspection reports.

Work Planned for the Upcoming Month

- Issue contract modification to extend contract period of performance. Also need contract modification to de-obligate unused remaining contract line items.
- Bristol will incorporate accepted responses to stakeholder comments on 2014 Draft-Final HTRW Report once received and following a potential comment resolution meeting. Bristol still waiting for ADEC comments on the report.
- Bristol will prepare and submit responses to ADEC and USACE comment on the 2015 Groundwater Monitoring Report. Bristol has not yet received ADEC comments on the report.
- Bristol will prepare and submit responses to ADEC comments on the 2015 Landfill Cap Inspection Report once initial comments are received from the ADEC.

Accident/Exposure Hours

- A total of 106.0 project accident/exposure hours were worked during the month of March 2016 by Bristol and key subcontractors. The 2016 project total of personnel hours worked through 31 March 2016 was 286.0. The March 2016 Monthly Record of Work–Related Injuries/Illnesses & Exposure Forms were submitted to cepoaso@usace.army.mil on 5 April 2016.

APPENDIX D

Photograph Log

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Temporary Construction camp August 19, 2014 Northeast

Camp_NEC 2014 001 Photographer: E. Barnhill

Camp deconstruction August 24, 2014 Northeast

Camp_NEC 2014 006 Photographer: E. Barnhill

Bulk bags on flats July 29, 2014 North

Cargo Beach_NEC 2014 002 Photographer: E. Barnhill

Transporting flats of bulk bags to Cargo Beach. July 29, 2014 North

Cargo Beach_NEC 2014 002 Photographer: E. Barnhill

Bulk bags loaded on flats on Cargo Beach.

August 1, 2014 East

Cargo Beach_NEC 2014 007

Photographer: E. Barnhill

Landing craft approaching Cargo Beach

July 31, 2014 Northeast

Beach NEC 2014 003

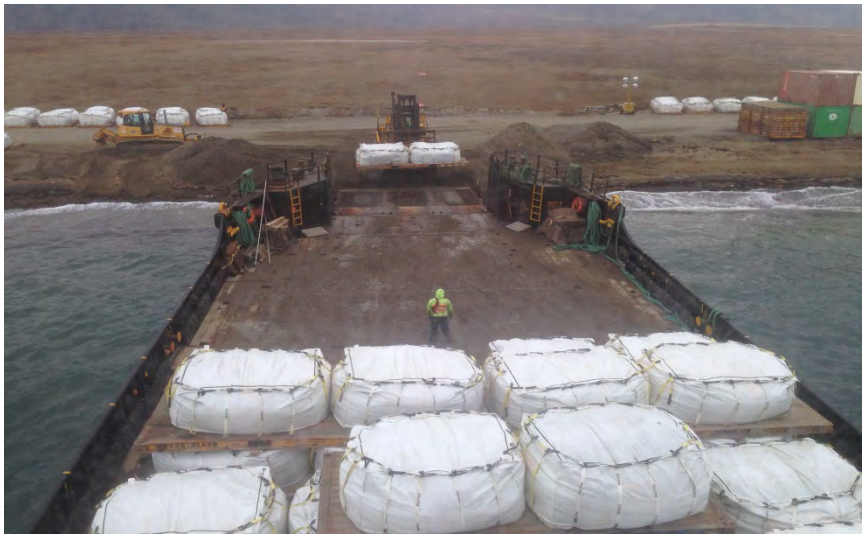
Photographer: R. James

Landing craft approaching Cargo Beach

August 24, 2014 Northwest

Cargo Beach_WP_20140824_001

Photographer: E. Barnhill



Landing craft loaded with bulk bags.

October 8, 2014 Southwest

Cargo Beach_IMG_4557

Photographer: E. Barnhill

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Metal debris

Metal Debris_NEC 2014 010

July 31, 2014 North

Photographer: R. James

Well construction drilling

Well Construction_IMG_2607

August 7, 2014 South

Photographer: L. Kleppin

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Well boring sampling.

Well Construction_IMGP2500

August 5, 2014 West

Photographer: J. Allan

Inserting well casing.

Well Construction_IMGP2643

August 13, 2014 North

Photographer: J. Allan

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Fuel containment construction — July 22, 2014 North

Fuel Cont_ 2014 002 — Photographer: R. James

Site 8 surface water sampling — August 11, 2014 Northwest

Site 8_IMGP2612 — Photographer: J. Allan

Northeast Cape 2014 Photo Log

Finished well MW-6. August 8, 2014 Northeast

Well Construction_IMGP2552 Photographer: J. Allan

Checking water level in new well August 17, 2014 Down

Well Construction_IMG_0028 Photographer: E. Barnhill

Northeast Cape 2014 Photo Log

Groundwater sampling. August 22, 2014 East
Well Sampling_NEC 2014 015 Photographer: R. James

Locked well 20 MW-1 October 1, 2014 Close-up
Well Locked_IMG_4536 Photographer: R. James

Northeast Cape 2014 Photo Log

Pulling decommissioned well
Well Decommissioning_IMGP2645

August 13, 2014 Northeast
Photographer: J. Allan

Decommissioned well
Well Decommissioning_IMG_4563

October 9, 2014
Close-up
Photographer: R. James

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Removing clean overburden from "E" plume.

July 27, 2014 South

Photographer: L. Kleppin

MOC_IMG_1996

Removing contaminated soil from "C" plume.

July 27, 2014 South

Photographer: R. James

MOC_NEC2014 002

Northeast Cape 2014 Photo Log

Shaping clean overburden stockpile.

MOC_IMG_2037

July 27, 2014 Northeast

Photographer: L. Kleppin

Capturing extent of plume “E1” with GPS.

MOC_IMG_2204

July 30, 2014 Northeast

Photographer: L. Kleppin

Northeast Cape 2014 Photo Log

MOC “E” plume excavation with safety barriers

MOC_IMG_1943

July 27, 2014 Southwest

Photographer: L. Kleppin

MOC “E” plume contaminated sample dig out area.

MOC_NEC 2014 003(2)

August 1, 2014 South

Photographer: R. James

Northeast Cape 2014 Photo Log

”I” Plume excavation.

MOC_IMG_2239

July 31, 2014 Southeast

Photographer: L. Kleppin

Site 27 (“E” plume) sample collection.

MOC_IMG_2601

August 7, 2014 East

Photographer: L. Kleppin

Pad 98 with contaminated soil stockpile and full bulk bags.

Pad 98_NEC 2014 008

August 1, 2014 West

Photographer: E. Barnhill

Operating screen plant.

Pad 98_DSCF2095

July 26, 2014 West

Photographer: E. Barnhill

Weighing bulk bag July 29, 2014 North
MOC_NEC 2014 014 Photographer: R. James

Site 10 pre-excavation with historic samples marked with lathe July 27, 2014 Northwest
Site 10_NEC 2014 009 Photographer: R. James

Preparing to sample Site 10 historic sample locations

July 27, 2014 North

Photographer: R. James

Site 10_NEC 2014 006

Uncovered drums in Site 10

August 3, 2014 Northeast

Site 10_NEC 2014 003

Photographer: R. James

Drums removed from Site 10 August 3, 2014 Close up

Site 10_IMG_0017 Photographer: E. Barnhill

Drum with bullet holes removed from Site 10 August 3, 2014 Close up

Photographer: R. James

Site 10_NEC 2014 010

Site 10 drum containment area August 3, 2014 Northeast
Site 10_NEC 2014 006(2) Photographer: R. James

Site 10 excavation August 3, 2014 Northeast
Site 10_NEC 2014 017 Photographer: R. James

Northeast Cape 2014 Photo Log

Site 10 excavations “A” and “B” August 4, 2014 Southwest
Site 10_NEC 2014 005 Photographer: R. James

Site 10 sampling August 4, 2014 North
Pad_02_DSCF1003.JPG Photographer: R. James

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Site 10 excavation September 29, 2014 Close up

Site 10_IMG_4524 Photographer: R. James

Site 10 backfilled and graded October 1, 2014 Northeast

Site 10_IMG_4532 Photographer: R. James

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

MOC MI grid

MI_NEC 2014 012

August 20, 2014 North

Photographer: R. James

MOC MI grid

MI _WP_20141003_005

October 3, 2014 South

Photographer: E. Barnhill

Cargo Beach MI sampling

MI_IMG_4594

October 21, 2014 East

Photographer: R. James

Site 6 historic sample location excavation

Site 6_IMGP2519

August 6, 2014 Northeast

Photographer: J. Allan

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Site 6 test pit lithological logging

Site 6_IMGP2517

August 6, 2014 East

Photographer: J. Allan

Site 21 frozen soil

Site 21_Boring 1

July 11, 2014 North

Photographer: E. Barnhill

Site 21 soil boring; soil profile with water and ice

Site 21_Boring 3

July 13, 2014 Close up

Photographer: E. Barnhill

Site 21 arsenic excavation from historic sample

Site 21_IMG_0018

August 7, 2014 North

Photographer: E. Barnhill

Northeast Cape 2014 Photo Log

Site 21 borehole sampling with hand auger

Site 21_IMGP2502

August 5, 2014 North

Photographer: J. Allan

Site 21 historic sample excavation

Site 21_NEC 2014 003

August 19, 2014 Southwest

Photographer: R. James

Site 21 track walked cap

Site 21_NEC 2014 016

August 20, 2014 West

Photographer: R. James

Site 32 historic sample locations marked

Site 32_NEC 2014 012

July 27, 2014 South

Photographer: R. James

Northeast Cape 2014 Photo Log

W911KB-14-D-0006

Sampling excavation at Site 32

Site 32_IMGP2509

August 6, 2014 South

Photographer: J. Allan

Site 32 excavation contaminated sample dig out location

Site 32_IMG_0024

August 9, 2014 Down

Photographer: E. Barnhill

Site 32 removing metal projections with chop saw

August 16, 2014 Northeast

Photographer: E. Barnhill

Site 32_WP_20140816_010

Site 32 metal debris

August 16, 2014 Down

Photographer: E. Barnhill

Site 32_WP_20140816_011

Site 32 backfilled and graded August 20, 2014 Southwest

Site 32_NEC 2014 011 Photographer: R. James

Dust suppression on MOC perimeter road July 29, 2014 Northeast

Photographer: E. Barnhill

Site28_01_DSCF1119.JPG

Silt fence North of “E” plume August 12, 2014 Northeast

Silt fence_IMGP2620 Photographer: R. James

Site 31 foundation void backfilled August 15, 2014 Southeast

Site28_03_DSCF1224.JPG Photographer: R. James

APPENDIX E

Field Documentation

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BOREHOLE ID: MW-1 (far west well) Page 1 of 2

Client: USACE

Job No. 74190087

Site Name: MW-1 MWL
Site Location: SLI
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By: L. Klippen
Company: BERS
Total Depth:

Drilling Company: GeoTek
Driller: Tim
Drill Rig: 6620 DT
Borehole Diameter:
Sampling Method: direct push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, dry to moist, brown, no fuel odor (2.5Y 4/3)	0.0						
			80			0.0						
					peat, dark brown, moist, firm, no fuel odor 10YR 3/6	0.0						
					~~organic silt, brown, moist 2.5Y 4/4~~							
					clayey silt, greyish brown, hard, no fuel odor 10YR 3/2	0.0						
5					silty gravel, grey, dry, slight fuel odor (GLEY1 4/10Y) dense	0.8						
			80			0.7						
						0.6						
10					as above	0.1						
					clayey silt, wet, olive grey, soft, no fuel odor (GLEY1 3/10Y)	0.0						
			70									
					silty gravel, moist, grey, medium dense, no fuel odor (2.5Y 4/2) angular 2"+ clasts	0.2						
15												
					silty gravel, ~~olive~~ dark greyish brown, wet, no fuel odor dense, (2.5Y 4/2)	0.0						14NCWELLSSOB 1540 ▽ wet
			50			0.0						
						0.0						
20												

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BOREHOLE ID: MW-1

Client:

Job No.

Site Name:
Site Location:
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By:
Company:
Total Depth: 25

Drilling Company:
Driller :
Drill Rig :
Borehole Diameter:
Sampling Method:

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, wet, dense, no fuel odor (2.5Y 4/4)							
			50	X	silty clay, olive grey, wet, soft, no fuel odor (2.5Y 4/1)							14NCWELLSS09 1600
25					EOH 25'							

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BOREHOLE ID: MW-2 (west well)

Client: USACE

Job No. 34140087

Site Name: MOC
Site Location: MW-
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By: L. Kleppin
Company: BERS
Total Depth: 20'

Drilling Company: GeoTek
Driller:
Drill Rig: 6620DT
Borehole Diameter:
Sampling Method: Direct Push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					sandy gravel, dry to moist, brown, dense no fuel odor (10YR/4/4)	0.0						
			90			0.0						
					silty gravel, moist, brown, dense, no fuel odor	0.0						
						0.0						
5					as above	0.0						
			70		slight fuel odor (10YR 3/2) dark brown silty gravel, moist, dense	4.7						
						2.3						
						1.8						
10					sandy gravel, brown, loose, slight fuel odor (10YR 3/3)							
					silty gravel, wet, grey, fuel odor (10YR 3/2)	18.8						14NCWELL5503 1100 ▽ right water @ ~12' bgs
			40									
15					clayey silt with gravel, grey, wet, soft 10YR 3/1 ~~slight~~ no fuel odor LK	0.0						
			40			0.0						14NCWELL5504 1115
						0.0						
20					20' EOB							

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 341400 87

BOREHOLE ID: MW-3

Site Name: MOC
Site Location: NE CAFE
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By: L. Kilgore
Company: BERS
Total Depth: 25

Drilling Company: GeoTek
Driller: Tim
Drill Rig: 6620 PT
Borehole Diameter:
Sampling Method: Direct Push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, moist, dense (10YR 4/3) strong fuel odor, angular to subangular 2"+ gravel	0.0						
			80			8.4						
						34.3						
5						65						
					as above	13 ~~8.2~~						
			50			21.5						
						46.4						
						112						
10					sandy gravel, brown, moist, dense with silt, slight fuel odor (10YR 3/3)	42.1						
			60			1.2						
						1.7						
						1.8						
						2.3						
15					silty gravel with clay, moist to wet greyish brown, fuel odor 10YR 3/4	9.2						free water in macro core
			70		silty gravel with ~~clay~~ sand, moist, strong fuel odor, very dense brown to greyish brown (10YR 3/3) to (10YR 4/2)	158.0						moist to dry
						191						14NCWELLSØ5 1300
						77.2						14NCWELLSØ6 1400
20												

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BOREHOLE ID: MW-3

Client:

Job No.

Site Name:
Site Location:
Date Started:
Date Completed:

Logged By:
Company:
Total Depth:

Drilling Company:
Driller :
Drill Rig :
Borehole Diameter:
Sampling Method:

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					SAND (2.5Y 4/2) olive grey, wet, loose slight fuel odor	13		SP				water
			50		sandy gravel, wet, loose, olive grey (2.5Y 4/2) slight fuel odor	6.0						
				X	silty sand, (2.5Y 5/3) brown, wet, loose no to slight fuel odor	2.8						14NCWELLSS07 1420
25					EOH 25'							
30												

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	% Fines	% Sand	% Grave	REMARKS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 34140087

BOREHOLE ID: MW-4

Site Name: MOC
Site Location: SLI
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By: L. Kloppin
Company: BERS
Total Depth: 15'

Drilling Company: GeoTek
Driller: Tim
Drill Rig: 6620 DT
Borehole Diameter:
Sampling Method: direct push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, moist, very dense, slight fuel odor 10YR 3/3 with clay	16.8						
			60			13.6						
						14.5						
5						3.1						
					as above, strong fuel odor	0.6						
												short wet interval
			60			9.3						14NCWELLS910 1700
						11.8						free water
10					sandy gravel, wet, brown (10YR 3/3) loose slight fuel odor	14.3						fill↑
					gravelly silt, brown, wet (10YR 3/3) brown slight fuel odor, dense	24						
						9.5						14NCWELLS911 1710
						18.9						
15					clayey silt, dark brownish grey, wet, hard, strong fuel odor							
20												

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 34140087

BOREHOLE ID: MW-5

Site Name: MUC
Site Location: St. Lawrence Island
Date Started: 8/6/14
Date Completed: 8/6/14
Logged By: L. Keppin
Company: BERS
Total Depth: 15'

Drilling Company: Geotek
Driller: Tim
Drill Rig: 6620 DT
Borehole Diameter:
Sampling Method: direct push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, (10YR), moist dense, no fuel odor	0.0						
			50	X		0.0						14NCWELLSS12 0920
						0.0						▽ water
5					silty gravel, brown, (10YR), wet, dense slight fuel odor	0.8						
			50			2.0						
						5						
						8.2						
10					Sandy gravel, brown, wet, loose, fuel odor	2.6						
						5.3						
			50	X								
					clayey silt, greyish brown, wet, soft strong fuel odor	14.2						14NCWELLSS13 0930
					silty gravel, brown, wet, strong fuel odor	42.1						14NCWELLSS14 0940 DUP
15					End 15'							

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BOREHOLE ID: MW-6

Client: USACE

Job No. 34140087

Site Name: MOC
Site Location: St. Lawrence Island
Date Started: 8/6/14
Date Completed: 8/6/14
Logged By: L. Kippen
Company: BERS
Total Depth: 15

Drilling Company: GeoTek
Driller: Tim
Drill Rig: 6600 DT
Borehole Diameter:
Sampling Method: direct push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, moist, slight fuel odor dense, with sand	1.2						
												fill
			~~60~~ 70			4.7						
						1.7						
					~~Clayey gravel with silt, olive grey,~~	0.9						
						1.3						
						3.3						
			90			~~50.1~~						▽ wet rig hit water
					silty gravel, brown, wet, fuel odor	50.1						14NCWELLSS ~~16~~ 15 1035
					Clayey gravel with silt, olive grey, moist strong fuel odor	133						
					sandy gravel with silt, olive grey, wet, strong fuel odor	60.9						
					sandy silt, grey, moist, strong fuel odor, hard	60.1						
					organic silt, black, moist, hard, strong fuel odor	18.6						14NCWELLSS 16 1040
			90		silt, dark greyish brown, moist, hard, strong fuel odor	83.0						
						11.3						
					EOB 15'							

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 3414Ø8Ø7

BOREHOLE ID: MW-7 (upgradient well)

Site Name: MOC
Site Location: MW-7
Date Started: 8/5/14
Date Completed: 8/5/14
Logged By: L. Kleppin
Company: BERS
Total Depth: 25'

Drilling Company: GeoTek
Driller:
Drill Rig: 6620DT
Borehole Diameter:
Sampling Method: Direct Push

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					sandy gravel with silt, brown, moist to dry, loose, no fuel odor, fine sand, subangular 2" gravel (10YR 4/3)	0.0		GW				
			90		SILT, mottled gray and orangish brown, moist, ~~very firm~~ LK, hard (10YR 5/6) no fuel odor	0.0		ML				
5					gravelly CLAY, brown, moist, soft (10YR 4/4) no fuel odor	0.0		CL				
			60		silty clay, moist, soft, mottled grey and orangish brown (10YR 5/8 to 10YR 4/1) no fuel odor	0.0						
					Sandy gravel, loose, moist, brown (10YR 5/4) no fuel odor, subangular to angular 2"+ gravel	0.0		GW				
10					as above	0.0						
			90			0.0						
						0.0						
15					as above							
					clayey gravel grey, soft, moist, (10YR 4/1) no fuel odor with silt	0.0						14NCWELLSS01 MS/MSD Rig hit 1000 water
					clayey gravel, brown, firm, moist (10YR 4/4) no fuel odor	0.0						
20					siltly gravel, brown (10YR 3/6) hard, moist no fuel odor	0.0						
						0.0						14NCWELLSS02 1015
25												

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

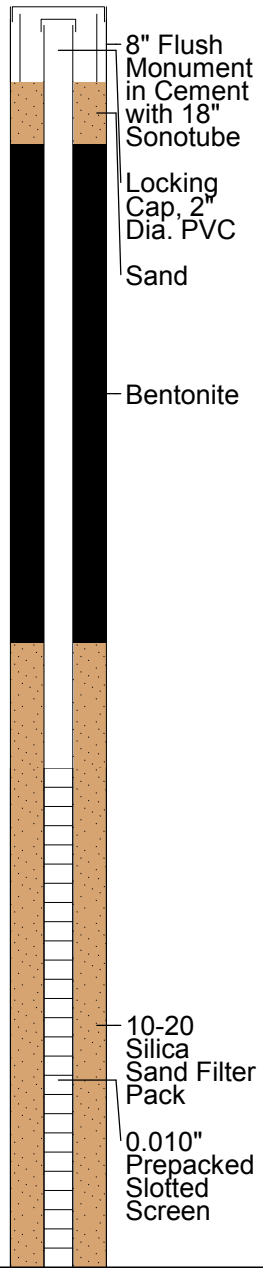
14MW01

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0							
			80	0		GM	SILTY GRAVEL, brown (2.5Y 4/3), dry to moist, no fuel odor
						PT	PEAT, dark brown (10YR 3/6), moist, firm, no fuel odor
						OL	SILT, brown (2.5Y 4/4), moist, organic silt
						ML	CLAYEY SILT, greyish brown (10YR 3/2), hard, no fuel odor
			80	0.8		GM	SILTY GRAVEL, grey (GLEY1 4/10Y), dry, dense, slight fuel odor
10							
			70	0.2		ML	CLAYEY SILT, olive grey (GLEY1 3/10Y), wet, soft, no fuel odor
						GM	SILTY GRAVEL, grey (2.5Y 4/2), moist, medium dense, angular gravel up to 2" diameter, no fuel odor
		14NCWELLSS08					
			50	0		GM	SILTY GRAVEL, greyish brown (2.5Y 4/2), wet, dense, no fuel odor
20							

14MW01



Notes:
% = percent
E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

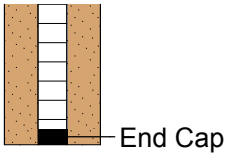
14MW01

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
20							
			50	0		CL	SILTY CLAY, olive grey (2.5Y 4/1), wet, soft, no fuel odor
30							
40							

14MW01



Notes:
% = percent
E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

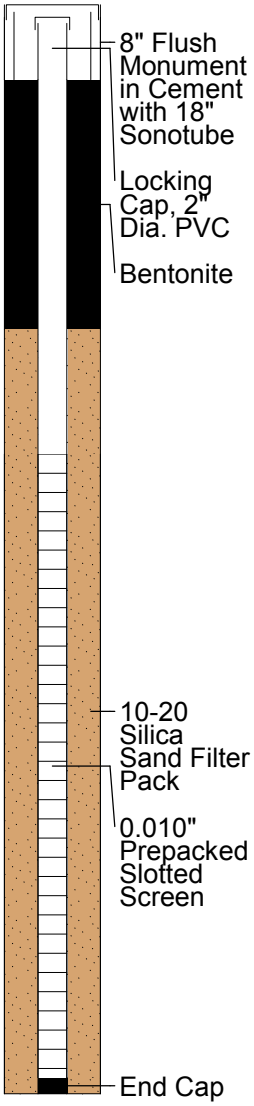
14MW02

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	20 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0							
			90	0		GW	SANDY GRAVEL, brown (10YR 4/4), dry to moist, dense, no fuel odor
						GM	SILTY GRAVEL, brown, dense, no fuel odor
			70	4.7		GM	SILTY GRAVEL, brown (10YR 3/2), moist, dense, slight fuel odor
10		14NCWELLSS03					
			40	18.8		GM	SILTY GRAVEL, brown (10YR 3/2), wet, dense, slight fuel odor
			40	0		ML	CLAYEY SILT, grey (10YR 3/1), wet, soft, no fuel odor
20							

14MW02



Notes:
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No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

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Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

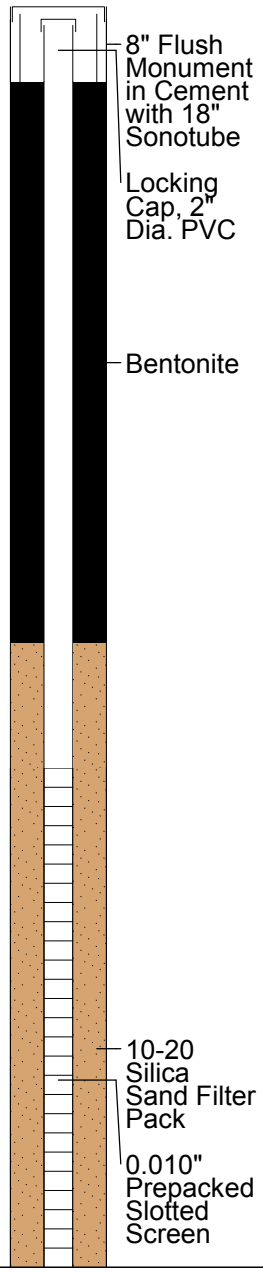
14MW03

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0							
			80	65		GM	SILTY GRAVEL, brown (10YR 4/3), moist, dense, strong fuel odor, angular to subangular up to 2" diameter gravel
			50	46.4			
10			60	42.1		GW	SANDY GRAVEL, brown (10YR 3/3), moist, dense, with silt, slight fuel odor
		14NCWELLSS05, 14NCWELLSS06 (DUPLICATE)				GM	SILTY GRAVEL, greyish brown (10YR 3/4), moist to wet, with clay, strong fuel odor
			70	158		GM	SILTY GRAVEL, brown to greyish brown (10YR 3/3 to 10YR 4/2), moist, very dense, with sand, strong fuel odor
20							

14MW03



Notes:
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ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

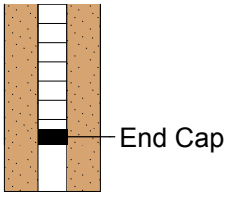
14MW03

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
20						SW	SAND, olive grey (2.5Y 4/2), wet, loose, slight fuel odor
			50	13		GW	SANDY GRAVEL, olive grey (2.5Y 4/2), wet, loose, slight fuel odor
		14NCWELLSS07				SM	SILTY SAND, brown (2.5Y 5/3), wet, loose, slight fuel odor
							Top 10 feet of boring location was excavated and backfilled with screened material (<2" silty gravel, gravelly silt) to ease well installation. Hollow stem auger advanced to 23 feet bgs.
30							
40							

14MW03



Notes:
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ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

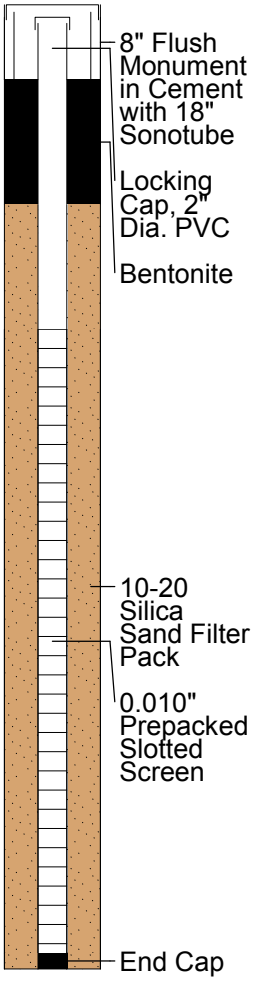
14MW04

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	15 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0							
			60	16.8			SILTY GRAVEL, brown (10YR 3/3), moist, very dense, with clay, slight fuel odor
		14NCWELLSS10	60	11.8			SILTY GRAVEL, brown (10YR 3/3), moist, very dense, with clay, strong fuel odor
10							
							SANDY GRAVEL, brown (10YR 3/3), wet, loose, slight fuel odor
		14NCWELLSS11	60	18.9			GRAVELLY SILT, brown (10YR 3/3), wet, dense, slight fuel odor
							CLAYEY SILT, dark brownish grey, wet, hard, strong fuel odor
20							

14MW04



Notes:
% = percent
E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

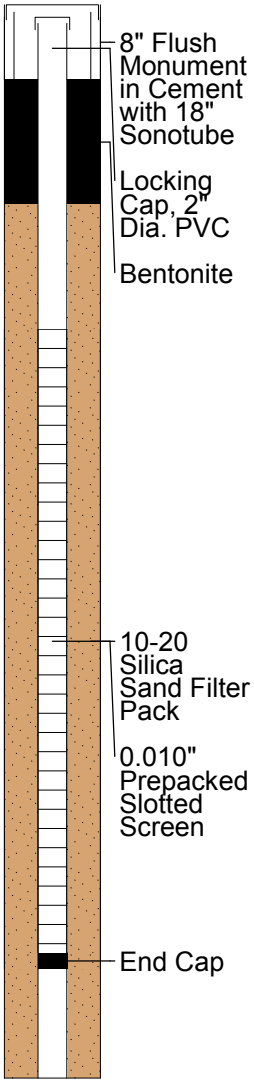
14MW05

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	15 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/6/2014
Date Completed	8/6/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0		14NCWELLSS12	50	0		GM	SILTY GRAVEL, brown (10YR 4/3), moist, dense, no fuel odor
			50	5		GM	SILTY GRAVEL, brown (10YR 4/3), wet, dense, slight fuel odor
10		14NCWELLSS13 14NCWELLSS14 (DUPLICATE)	50	42.1		GW	SANDY GRAVEL, brown (10YR 4/3), wet, loose, moderate fuel odor
						ML	CLAYEY SILT, greyish brown (10YR 5/2), wet, loose, moderate fuel odor
						GM	SILTY GRAVEL, brown (10YR 4/3), wet, strong fuel odor
20							

14MW05



Notes:
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E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

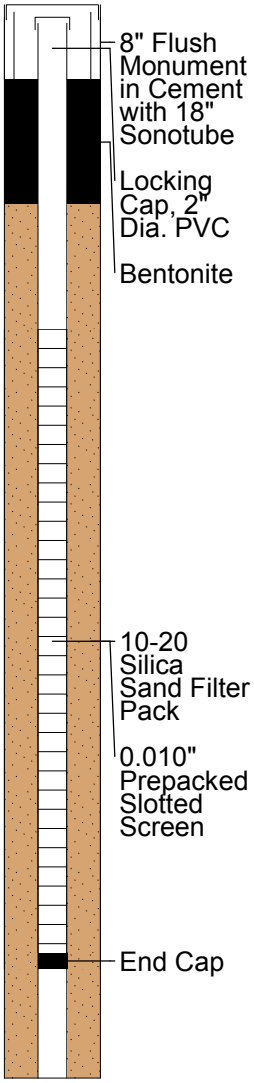
14MW06

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	15 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/6/2014
Date Completed	8/6/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0							
			70	4.7		GM	SILTY GRAVEL, brown, moist, dense, with sand, slight fuel odor
		14NCWELLSS15	90	133		GM	SILTY GRAVEL, brown, wet, moderate fuel odor
						GC	CLAYEY GRAVEL, olive grey, moist, with silt, strong fuel odor
10						GW	SANDY GRAVEL, olive grey, wet, with silt, strong fuel odor
						ML	SANDY SILT, grey, moist, hard, strong fuel odor
		14NCWELLSS16	90	83		OL	ORGANIC SILT, black, moist, hard, strong fuel odor
						ML	SILT, dark greyish brown, moist, hard, strong fuel odor
20							

14MW06



Notes:
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E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

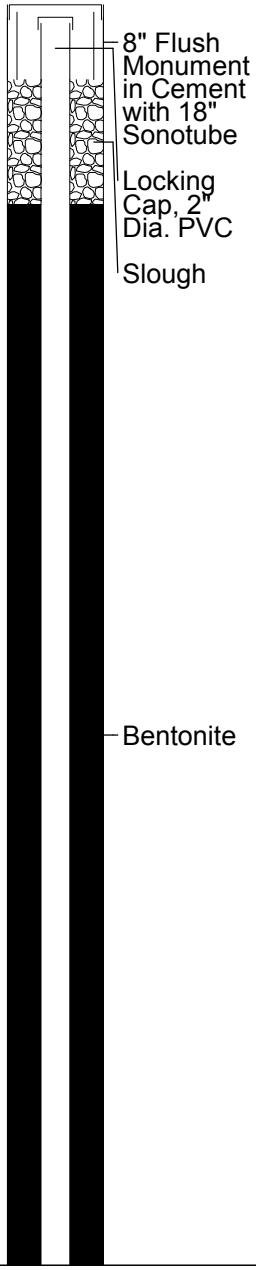
14MW07

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
0						GW	SANDY GRAVEL, brown (10YR 4/3), moist to dry, loose, with silt, fine sand, subangular gravel up to 2" diameter, no fuel odor
			90	0		ML	SILT, mottled grey and orangish brown (10YR 5/6), moist, hard, no fuel odor
						CL	GRAVELLY CLAY, brown (10YR 4/4), moist, soft, no fuel odor
						CL	SILTY CLAY, mottled grey and orangish brown (10YR 5/8 to 10YR 4/1), moist, soft, no fuel odor
			60	0		GW	SANDY GRAVEL, brown (10YR 5/4), moist, loose, subangular to angular 2" diameter gravel, no fuel odor
10			90	0			
		14NCWELLSS01	90	0		GC	CLAYEY GRAVEL, grey, (10YR 4/1), soft, moist, with silt, no fuel odor
20						GC	CLAYEY GRAVEL, brown (10YR 4/4), firm, moist, no fuel odor

14MW07



Notes:
% = percent
E = easting
ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC

USACE
NE Cape 2014

Job No. 34140087

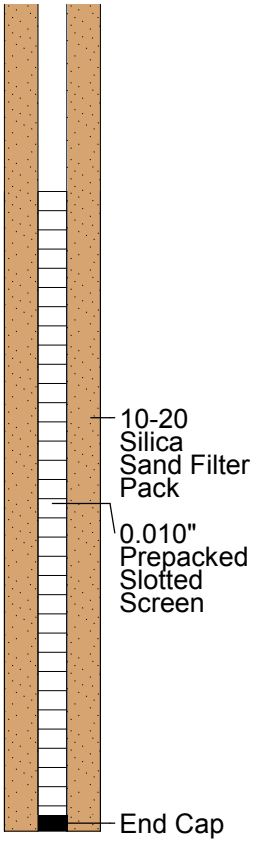
14MW07

Site ID:	St. Lawrence Island
Site Location:	Main Operations Complex
Boring Location:	Not Surveyed
	Not Surveyed
Elevation:	Not Surveyed
Total Depth:	25 feet

Logged By:	Lyndsey Kleppin
Drilled By:	Timothy Beckner
Drilling Company:	GeoTek
Drill Rig:	6620 DT
Drilling Method:	Direct Push
Borehole Diameter:	3 inches
Date Started:	8/5/2014
Date Completed	8/5/2014

Depth (ft)	Sample Interval	Lab No.	Recovery (%)	PID (ppm)	Graphic Log	USCS	Lithology Description
20	14NCWELLSS02		90	0		GM	SILTY GRAVEL, brown (10YR 3/6), hard, moist, no fuel odor
							Top 14 feet of boring location was excavated and backfilled with screened material (<2" silty gravel, gravelly silt) to ease well installation. Hollow stem auger advanced to 33 feet bgs.
30							
40							

14MW07



Notes:
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ft = feet
N = northing
No. = number

PID = photionization detector
ppm = parts per million
USCS = Unified Soil Classification System

Borings advanced with direct push continuous core sampling and subsequently advanced using a hollow stem auger during monitoring well installation.

WELL CONSTRUCTION DETAILS

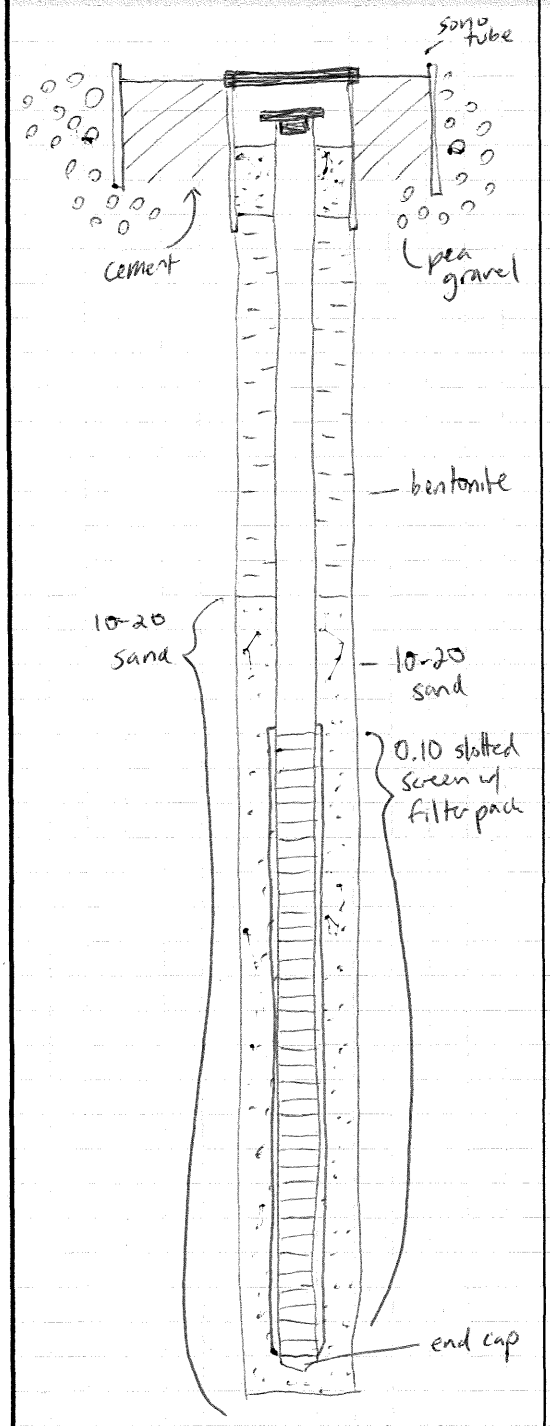
Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Site Name:	MOR	Driller:	Tim Beckner
Project Number:	34140087	Geologist:	L. Kleppin
Location:	SL1	Client:	USACE

Well ID: 14MW01
Borehole ID: 14MW01
Date Started: 8/9/14 Date Finished: 8/9/14

STATIC WATER LEVEL (after completion)
16.2 FT (TOC) bgs Date/Time 8/9/14 1715
_____ FT (TOC) Date/Time ~~1715~~

WELL DIAGRAM - NOT TO SCALE



Lithology

DEPTH (FT. BGS)

ANNULAR SPACE DETAILS

Type of Annular Sealant (Grout):	—
Installation Method:	HSA
Type of Bentonite Seal:	Granular / Pellet / Slurry (Choose One)
Number of Bags Used:	3
Installation Method:	
Type of Sand Pack:	10-20
Installation Method:	
Number of bags Used:	7

CONSTRUCTION DEPTHS (BGS)

Top of Casing:	0
Ground Surface:	0 feet
Top of Annular Sealant (Grout):	—
Top of Bentonite:	3
Top of Sand Pack:	10
Top of Screen:	12
Bottom of Well:	22
Bottom of Borehole:	22

CASING MEASUREMENTS

Diameter of Borehole (inches):	8"
Diameter of Casing (inches):	2"
Length of End Cap (inches):	3"
Screen Length:	10'
Total Length of Casing (feet):	22

WELL CONSTRUCTION MATERIALS

Monument Box:	8" flush
Screen Slot Size:	0.10
Casing Type:	Sched. 40 PVC

NOTES (added water, etc.)

WELL CONSTRUCTION DETAILS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

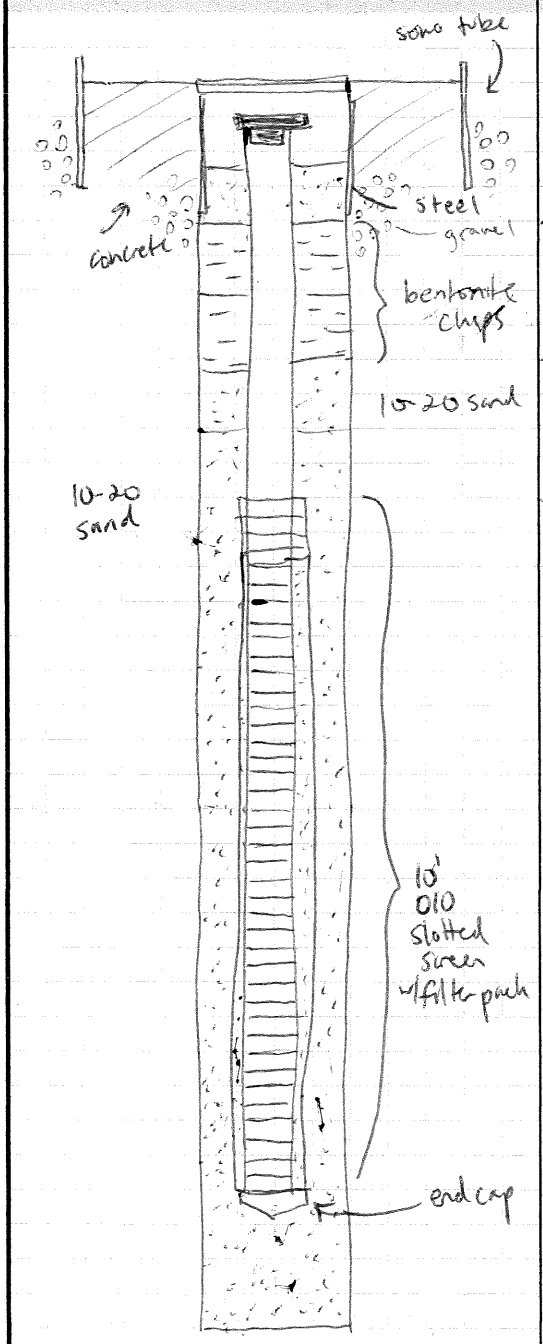
Site Name: MOC
Project Number: 34140087
Location: NE Cape

Driller: Tim Beckner
Geologist: L. Kleppin
Client: USACE

Well ID: 14MW04
Borehole ID: 14MW04
Date Started: 8/7/14 **Date Finished:** 8/9/14

STATIC WATER LEVEL (after completion)
_____ FT (TOC) Date/Time _____
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)
GM	0
X	1
X	3
X	5
GM	
X	15
CL	

ANNULAR SPACE DETAILS

Type of Annular Sealant (Grout): —
Installation Method: HSA
Type of Bentonite Seal: Granular / Pellet / Slurry (Choose One)
Number of Bags Used:
Installation Method:
Type of Sand Pack: 10-20
Installation Method:
Number of bags Used:

CONSTRUCTION DEPTHS (BGS)

Top of Casing: 0
Ground Surface: 0 feet
Top of Annular Sealant (Grout): —
Top of Bentonite: 1
Top of Sand Pack: 3
Top of Screen: 5
Bottom of Well: 15
Bottom of Borehole:

CASING MEASUREMENTS

Diameter of Borehole (inches): 8"
Diameter of Casing (inches): 2"
Length of End Cap (inches): 3"
Screen Length: 10'
Total Length of Casing (feet): 15'

WELL CONSTRUCTION MATERIALS

Monument Box: 8" flush
Screen Slot Size: 010
Casing Type: schedule 40 PVC

NOTES (added water, etc.)

1 drum of soil with strong fuel odor generated. Retainer ring in gear box failed during boring advancement @ 15' bgs 8/7/14. Gear box repaired, resumed installation 8/9/14.

WELL CONSTRUCTION DETAILS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

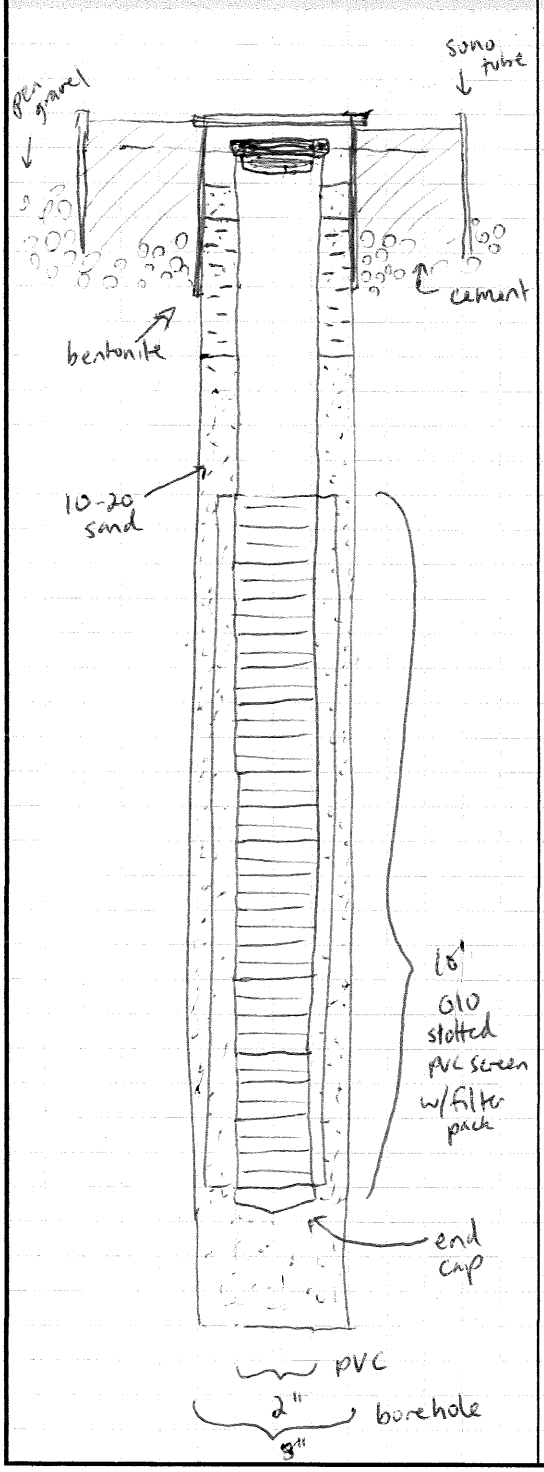
Site Name: NE Cape
Project Number: 34140087
Location: MOC

Driller: Tim Bechner
Geologist: L. Kleppin
Client: USACE

Well ID: 14MW05
Borehole ID: 14MW05
Date Started:
Date Finished:

STATIC WATER LEVEL (after completion)
_____ FT (TOC) Date/Time _____
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)
GM	0
	8'
	10'
	15'
	17'

ANNUAL SPACE DETAILS

Type of Annular Sealant (Grout):	—
Installation Method:	HSA
Type of Bentonite Seal:	Granular / Pellet / Slurry (Choose One)
Number of Bags Used:	2
Installation Method:	—
Type of Sand Pack:	10-20
Installation Method:	—
Number of bags Used:	6

CONSTRUCTION DEPTHS (BGS)

Top of Casing:	0 (flush)
Ground Surface:	0 feet
Top of Annular Sealant (Grout):	—
Top of Bentonite:	1'
Top of Sand Pack:	3'
Top of Screen:	5'
Bottom of Well:	15'
Bottom of Borehole:	17'

CASING MEASUREMENTS

Diameter of Borehole (inches):	8"
Diameter of Casing (inches):	2"
Length of End Cap (inches):	3"
Screen Length:	10'
Total Length of Casing (feet):	15'

WELL CONSTRUCTION MATERIALS

Monument Box:	8" flush
Screen Slot Size:	010
Casing Type:	40 PVC

NOTES (added water, etc.)

2 bags pea gravel @ top of hole
18" sono tube,
2 bags concrete for monument

WELL CONSTRUCTION DETAILS

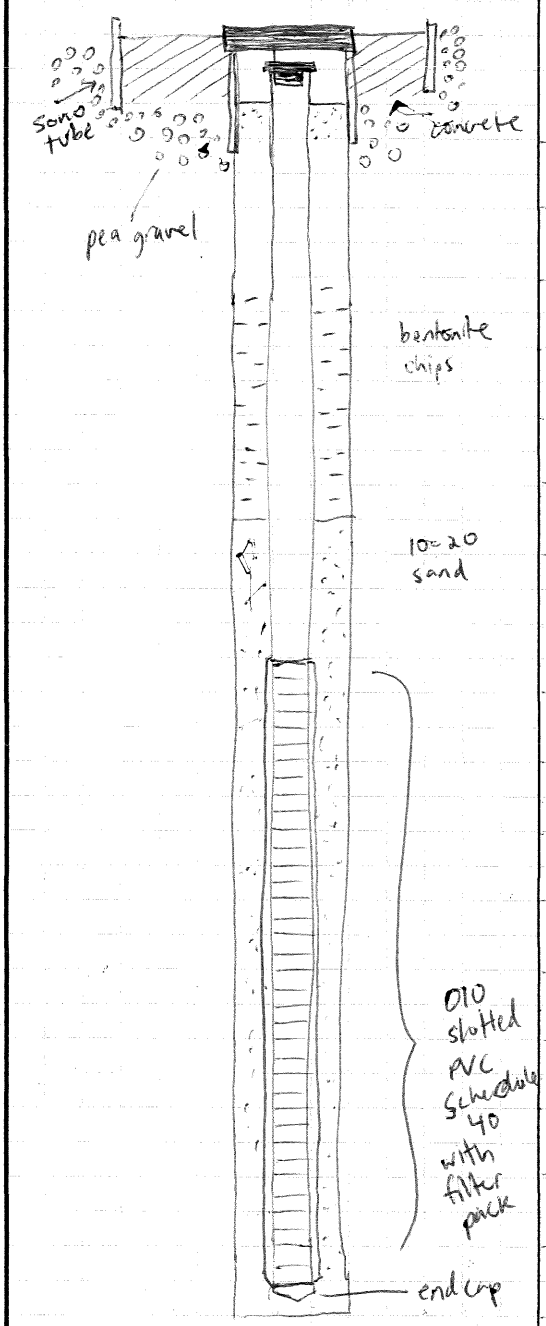
Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Site Name: MOC
Project Number: 34140087
Location: NE Cape
Driller: Tim Beckner
Geologist: L. Kleppin
Client: USACE

Well ID: 14 MW03
Borehole ID: 14MW03
Date Started: 8/9/14 **Date Finished:** 8/10/14

STATIC WATER LEVEL (after completion)
~16' bgs FT (TOC) Date/Time 8/10/14 0900
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)
GM, ML	0
	~~22~~ 22

ANNULAR SPACE DETAILS

Type of Annular Sealant (Grout): —
Installation Method: HSA
Type of Bentonite Seal: Granular / (Pellet) / Slurry (Choose One)
Number of Bags Used: ~~3~~
Installation Method:
Type of Sand Pack: 10-20
Installation Method:
Number of bags Used: ~~7~~

CONSTRUCTION DEPTHS (BGS)

Top of Casing: 0
Ground Surface: 0 feet
Top of Annular Sealant (Grout): —
Top of Bentonite: 1'
Top of Sand Pack: 10'
Top of Screen: 12'
Bottom of Well: 22'
Bottom of Borehole: 23'

CASING MEASUREMENTS

Diameter of Borehole (inches): 8"
Diameter of Casing (inches): 2"
Length of End Cap (inches): 3"
Screen Length: 10'
Total Length of Casing (feet): 22

WELL CONSTRUCTION MATERIALS

Monument Box: 8" flush
Screen Slot Size: 010 w/filter pack
Casing Type: schedule 40 PVC

NOTES (added water, etc.)

Refusal encountered within top 5' moved 3x, w/refusal
Excavated top 10' w/Deere 200 C Large gravel + boulders, backfilled with clean screened material silty gravel/gravelly silt <2"

WELL CONSTRUCTION DETAILS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

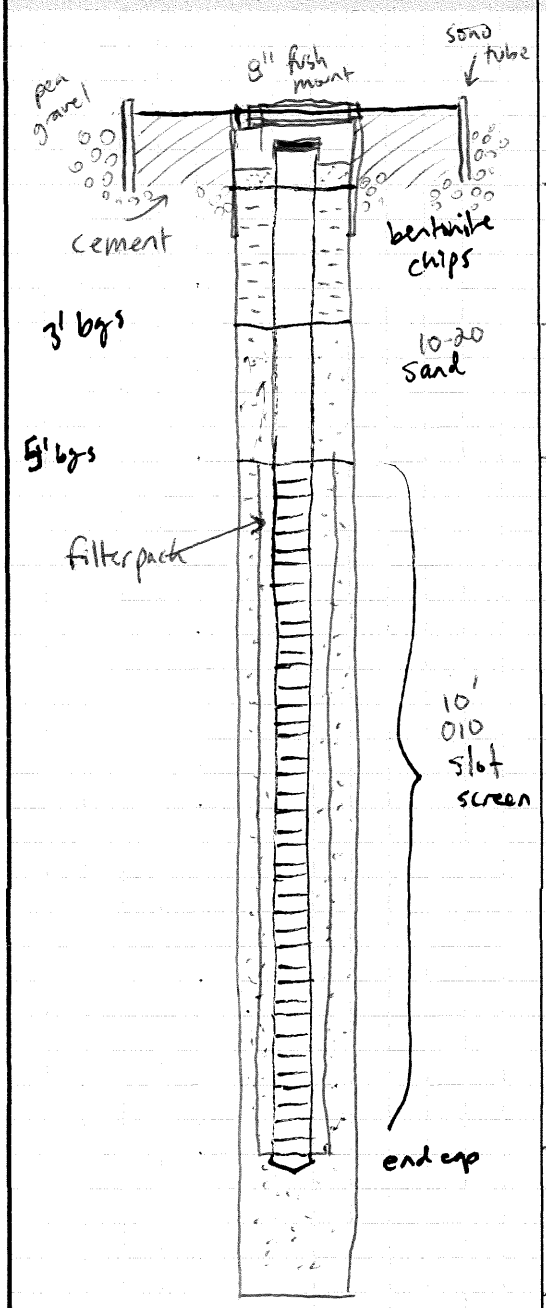
Site Name: NE Cape
Project Number: 34140087
Location: MOC

Driller: Tim Beckner
Geologist: L. Kleppin
Client: USACE

Well ID: 14MW06
Borehole ID: 14MW06
Date Started: 8/6/14 **Date Finished:** 8/6/14

STATIC WATER LEVEL (after completion)
_____ FT (TOC) Date/Time _____
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)
	0
	1
GM	
	3
GM	
	5
	15
	17

ANNUAL SPACE DETAILS

Type of Annular Sealant (Grout): —
Installation Method: HSA
Type of Bentonite Seal: Granular / Pellet / Slurry (Choose One)
Number of Bags Used: 1 bag
Installation Method: HSA
Type of Sand Pack: 10-20
Installation Method:
Number of bags Used: 6

CONSTRUCTION DEPTHS (BGS)

Top of Casing: 0 (flush)
Ground Surface: 0 feet
Top of Annular Sealant (Grout): —
Top of Bentonite: 1'
Top of Sand Pack: 3'
Top of Screen: 5'
Bottom of Well: 15'
Bottom of Borehole: 17'

CASING MEASUREMENTS

Diameter of Borehole (inches): 8"
Diameter of Casing (inches): 2"
Length of End Cap (inches): 3"
Screen Length: 10'
Total Length of Casing (feet): 15'

WELL CONSTRUCTION MATERIALS

Monument Box: 8" flush
Screen Slot Size: 010
Casing Type: 40 PVC

NOTES (added water, etc.)

1 drum of cuttings w/fuel odor generated

18" sono tube,

2 bags concrete for monument

WELL CONSTRUCTION DETAILS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

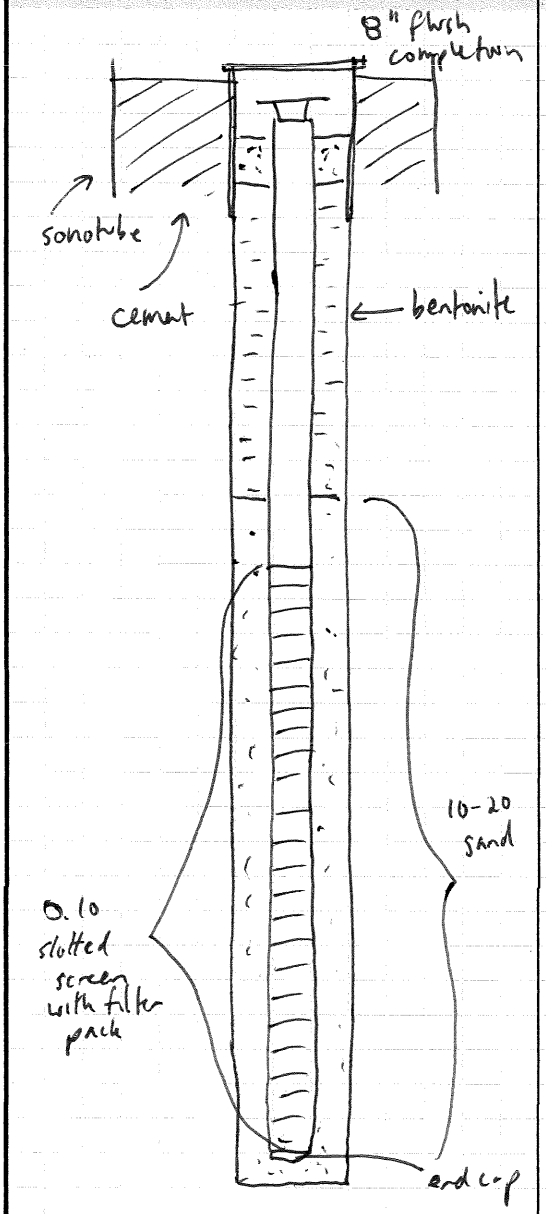
Site Name: MOC
Project Number: 34140087
Location:

Driller: Timothy Beckner
Geologist: Lyndsey Kleppin
Client: USACE

Well ID: 14MW02
Borehole ID:
Date Started: 08/10/14 **Date Finished:** 08/10/14

STATIC WATER LEVEL (after completion)
_____ FT (TOC) Date/Time _____
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)
	0
	5
	7
	17
	20

ANNULAR SPACE DETAILS

Type of Annular Sealant (Grout):	—
Installation Method:	HSA
Type of Bentonite Seal:	Granular / Pellet / Slurry (Choose One)
Number of Bags Used:	1
Installation Method:	HSA
Type of Sand Pack:	10-20
Installation Method:	HSA
Number of bags Used:	6

CONSTRUCTION DEPTHS (BGS)

Top of Casing:	0
Ground Surface:	0 feet
Top of Annular Sealant (Grout):	—
Top of Bentonite:	2
Top of Sand Pack:	5
Top of Screen:	7
Bottom of Well:	17'
Bottom of Borehole:	20'

CASING MEASUREMENTS

Diameter of Borehole (inches):	8"
Diameter of Casing (inches):	2"
Length of End Cap (inches):	3"
Screen Length:	10'
Total Length of Casing (feet):	17'

WELL CONSTRUCTION MATERIALS

Monument Box:	8" flush mount
Screen Slot Size:	0.10"
Casing Type:	40 PVC

NOTES (added water, etc.)

WELL CONSTRUCTION DETAILS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

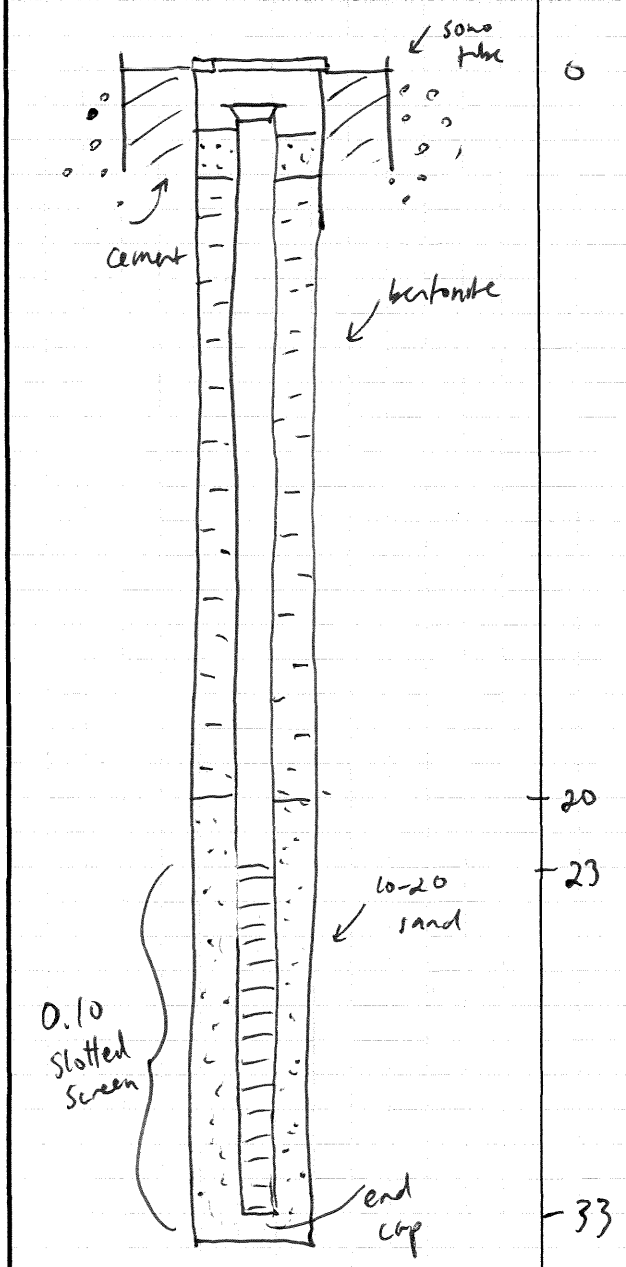
Site Name: MOC
Project Number: 34140087
Location: 14MW07

Driller: Timothy Beckner
Geologist: Lyndsey Klepoin
Client: USACE

Well ID: 14MW07
Borehole ID:
Date Started: 08/11/14 **Date Finished:** 08/13/14

STATIC WATER LEVEL (after completion)
_____ FT (TOC) Date/Time _____
_____ FT (TOC) Date/Time _____

WELL DIAGRAM - NOT TO SCALE



Lithology	DEPTH (FT. BGS)

ANNULAR SPACE DETAILS

Type of Annular Sealant (Grout):	
Installation Method:	HSA
Type of Bentonite Seal:	Granular / Pellet / Slurry (Choose One)
Number of Bags Used:	5
Installation Method:	HSA
Type of Sand Pack:	10-20
Installation Method:	
Number of bags Used:	8

CONSTRUCTION DEPTHS (BGS)

Top of Casing:	0
Ground Surface:	0 feet
Top of Annular Sealant (Grout):	—
Top of Bentonite:	3
Top of Sand Pack:	20
Top of Screen:	23
Bottom of Well:	33
Bottom of Borehole:	33

CASING MEASUREMENTS

Diameter of Borehole (inches):	8"
Diameter of Casing (inches):	2"
Length of End Cap (inches):	3"
Screen Length:	10'
Total Length of Casing (feet):	33

WELL CONSTRUCTION MATERIALS

Monument Box:	8" flush mounth
Screen Slot Size:	0.10
Casing Type:	40 PVC

NOTES (added water, etc.)

Borehole 14MW07-1 drilled to 25' bgs, refusal encountered. Well dry. Step-out ~10' East selected by QAR, drilled to 3 feet
Slow, hard drilling. U-joint on 10-20 rig welded to fix. Macrocore tube used to break rocks.
Location excavated to ~14' bgs, backfilled with screened 2"- material.

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REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cope 2014
Job Number: 34140087
Company: BERS
Well No.: MW 10-1
Well Type: [X] Monitor [ ] Extraction [ ] Other
Well Material: [X] PVC [ ] St. Steel [ ] Other
Date: 8/23/14 Time: 1550
Purged by: L. Kleppin (Signature)

14NCMOCGW17 1715

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

[X] 2-inch [ ] 4-inch [ ] 6-inch [ ] Other

Total Depth of Casing (TD in feet BTOC): 10.75

Water Level Depth (WL in feet BTOC): 7.16

PURGE METHOD

[ ] Pump – Type: SS monsoon

[X] Submersible [ ] Centrifugal [ ] Bladder [ ] Peristaltic.

[ ] Other – Type:

PUMP INTAKE SETTING

[ ] Near Bottom [ ] Near Top [X] Other

Depth in feet (BTOC): 9 Screen Interval in Feet (BTOC)

PURGE TIME

1550 Start 1655 Stop 65 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

7 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T [X] °C [ ] °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1556	7.81	7.7V		6.11	0.108	5.04	209.8	4.85	163	1.5
1620	8.95	7.7V	250	5.94	0.108	5.33	188.9	2.06	85	4.5
1650	8.95	7.7V	250	6.43	0.109	5.29	190.3	5.28	20	7
1655	8.95	7.7V		6.62	0.109	5.35	185.1	2.83	18	7

Bristol
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REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCape 2014
Job Number: 34140087
Company: BERS
Purged by: L. Kleppin

Well No.: 17MW1
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/20/14 Time: 1555

(Signature)

14NCMDCGW03 1630

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 15.49

Water Level Depth (WL in feet BTOC): 12.52

13

PURGE METHOD

☐ Pump – Type: SS monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1555 Start 1653 Stop 58 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

8.5 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1555										
1600	12.53	17V		2.34	0.096	5.90	125.7	11.21	38.2	1.5 gal
stopped		0	unusually slow – pulled out pump + cleared PVC							
1623	12.53	17V		2.05	0.096	5.62	151.3	11.02	11.2	2.5
1628		17V		2.38	0.096	5.52	158.9	10.60	13.0	4
1632	12.54	17V		2.46	0.096	5.64	157.2	10.44		4.5
stopped			cleared pump of PVC							
1644	12.53	17V		2.43	0.096	5.65	164.0	10.96	31.96	
1648	12.53	17V	550	2.31	0.096	5.52	174.5	12.91	7.18	8
1653	12.53	17V		2.35	0.096	5.05	166.6	11.15	4.33	8.5

Bristol
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REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCope 2014 | Well No.: MW 8B-1
Job Number: 34140087 | Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS | Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/22/14 | Time: 0950
Purged by: L. Klepper (Signature)

14NCMOCGW08 0930 DUP 14NCMOCGW09 0940

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 20.49

Water Level Depth (WL in feet BTOC): 18.57

PURGE METHOD

☐ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): 19.5 Screen Interval in Feet (BTOC)

PURGE TIME

0955 Start 1035 Stop 40 Elapsed

PURGE RATE

Initial ____ gpm Final 1 gpm

ACTUAL PURGE VOLUME

10 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
0955	~~18.64~~									~~1.5gal~~
1004	18.60	18V		1.81	0.095	4.67	251.9	5.68	534	1.5gal
1009	18.60	18V		1.92	0.094	5.01	241.5	5.62	102	2.5
1013	18.60	18V		1.92	0.092	5.17	231.4	5.17	55.4	3.5
1017	18.60	18V		1.92	0.091	5.19	230.0	5.72	47.2	4
1022	18.60	18V		1.95	0.091	5.21	230.5	5.71	45.3	5
1025	18.60	18V		1.97	0.090	5.27	228.0	5.27	39.5	6.0
1030	18.60	18V		1.96	0.090	5.28	229.3	5.36	36.4	6.5
1035	18.60	18V	700	1.95	0.090	5.30	230.3	5.31	29.2	7.5

GROUNDWATER LOW-FLOW PURGING FORM (continued)

MW 88-1 Page 2

FIELD PARAMETER MEASUREMENT (Continued)

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU) 25.7	Cumulative Volume Purged
1040	18.60	18V		2.03	0.089	5.34	230.6	6.00	~~27.2~~	8
1045	18.60	18V		2.11	0.089	5.36	230.0	6.06	27.8	9
1050	18.60	18V		2.17	0.089	5.35	232.1	6.55	28.7	9.5
1055	18.60	18V	700	2.18	0.089	5.38	231.6	6.43	25.7	10

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCope 2014
Job Number: 34140087
Company: BERS
Purged by: L. Kleppon

Well No.: MW B8-3
Well Type: ☐ Monitor ☐ Extraction ☐ Other
Well Material: ☐ PVC ☐ St. Steel ☐ Other
Date: 8/22/14 Time: 1410

(Signature)

14NCMoCGW10 1450

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 19.45

Water Level Depth (WL in feet BTOC): 14.07

PURGE METHOD

☒ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): 16 Screen Interval in Feet (BTOC)

PURGE TIME

1410 Start 1450 Stop 40 Elapsed

PURGE RATE

Initial ____ gpm Final ____ gpm

ACTUAL PURGE VOLUME

6 gal gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1410	~~14.60~~	10V								
1420	14.60	10V							1000+	1.5 gal
1430	14.58	10V		2.24	0.090	5.13	182.1	4.58	49.7	
1440	14.50	10V		2.27	0.090	5.27	178.7	4.82	11.5	4.5 gal
1443	14.47	10V		2.32	0.089	5.29	177.4	4.89	8.17	5 gal
1445	14.45	10V		2.38	0.088	5.30	176.6	4.99	7.63	
1448	14.40	11V	580	2.39	0.087	5.36	175.5	4.73	4.39	6 gal

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCape 2014
Job Number: 34140087
Company: BERS
Purged by: L. Klappin

Well No.: 88MW10
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/21/14 Time: 1130

(Signature)

14NCMOCGW05 1200

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 25.38

Water Level Depth (WL in feet BTOC): 22.39

PURGE METHOD

☐ Pump – Type: SS MOM 5000

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

23.5 Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1135 Start 1200 Stop 25 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

4 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1135		17V								
1139	22.91	17V		2.51	0.123	5.47	182.7	3.18	36.6	0.7
1143	22.97	17V		2.41	0.121	5.33	177.3	2.44	6.07	
1146	22.87	16V		2.55	0.107	5.35	165.5	2.35	10.6	
1149	22.84	16V		2.57	0.105	5.38	163.7	1.80	6.44	3
1153	22.82	16V		2.70	0.103	5.48	160.3	1.74	5.94	
1156	22.81	16V		2.85	0.101	5.53	149.2	1.72	5.64	3.75
1159	22.80	16V	600	2.86	0.101	5.55	148.7	1.63	5.48	4

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: ~~341~~ NeCape
Job Number: 34140087
Company: BERS
Purged by: L. Kleppin

Well No.: 20MW1
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/21/14 Time: 1000

(Signature)

14NCMOCGW04 1100

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 28.77

Water Level Depth (WL in feet BTOC): 24.28'

26.5

PURGE METHOD

☐ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1008 Start 1046 Stop 38 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

10 gallons

FIELD PARAMETER MEASUREMENT

DO sensor failed

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1008		18.9V								
1026	25.24	18.9V		2.11	0.131	5.62	185.0	12.04	31.2	4.5
1030	25.26	18.9V		2.11	0.131	5.65	183.6	12.07	13.9	7
1034	25.27	18.9V		2.18	0.131	5.67	181.9	12.00	9.59	8.5
1038	25.25	18.9V		2.21	0.131	5.67	181.8	11.92	7.20	9
1046	25.20	18.9V	1000	2.37	0.131	5.68	180.0	11.85	4.61	10

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCape 2014
Job Number: 34140087
Company: BERS
Purged by: L. Kleppin

Well No.: 22MW2
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/20/2014 Time: 1450

(Signature)

14NCMOCGW02 1530

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 34.19

Water Level Depth (WL in feet BTOC): 29.28

32

PURGE METHOD

☐ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☒ Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1450 Start 1512 Stop 32 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

8 gallons

FIELD PARAMETER MEASUREMENT

faulty DO sensor reads ~98%

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1450										
1457	29.32	22V		2.88	0.097	5.74	153.8	13.22	7.87	3.5
1501	29.32	22V		2.87	0.097	5.78	158.2	13.22	5.69	4.5
1506	29.32	22V		2.85	0.097	5.75	161.7	13.07	4.74	6
1509	29.32	22V		2.86	0.097	5.75	163.7	13.04	3.69	7
1512	29.32	22V	950	2.85	0.097	5.75	165.3	13.14	3.05	8

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014
Well No.: 26MW1
Job Number: 3414 0087
Well Type: [X] Monitor [ ] Extraction [ ] Other
Company: BERS
Well Material: [X] PVC [ ] St. Steel [ ] Other
Date: 8/20/14
Time: 1115
Purged by: L. Kleppin
(Signature)

14NCMOCGW01 1150 MS/MSD

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
[X] 2-inch [ ] 4-inch [ ] 6-inch [ ] Other

Total Depth of Casing (TD in feet BTOC): 41.46

Water Level Depth (WL in feet BTOC): 37.54'

40

PURGE METHOD

[ ] Pump – Type: SS monsoon
[X] Submersible [ ] Centrifugal [ ] Bladder [ ] Peristaltic.
[ ] Other – Type:

PUMP INTAKE SETTING

[X] Near Bottom [ ] Near Top [ ] Other
Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1115 Start 1145 Stop 30 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

12 gallons

FIELD PARAMETER MEASUREMENT

recalibrated, still high (101%)

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T [X] °C [ ] °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1115										
1122	37.55	24V		2.85	0.074	3.61	310.8	14.57	5.38	2.5 gal
1134	37.55	24V		2.87	0.074	5.42	231.8	13.49	6.35	6 gal
1137	37.55	24V		2.89	0.074	5.54	228.9	13.52	1.11	8 gal
1141	37.55	24V		2.83	0.074	5.59	229.3	13.53	1.12	
1144	37.55	24V	1500	2.83	0.074	5.63	230.1	13.47	1.11	12 gal

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCape 2014
Job Number: 34140037
Company: BERS
Purged by: L. Kleppin

Well No.: 14MW01
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/21/14 Time:

(Signature)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 21.91

Water Level Depth (WL in feet BTOC): 16.11

20.9

PURGE METHOD

☐ Pump – Type: SS monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☒ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1418 Start 1524 Stop 66 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

7 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1418			15V							
1419	16.90			2.75	0.287	6.83	-169.9	3.96	1000+	0.2 gal
1421	17.48			2.61	0.276	6.84	-274.7	2.60	1000+	0.5 gal
1424	19.87			2.35	0.231	6.57	-470.9	1.88	1000+	1 gal
1425	20.60			2.25	0.230	6.54	-416.9	2.03	1000+	2 gal
1428	20.90			2.51	0.229	6.61	-308.6	2.84	1000+	2.4
1431	20.62			2.87	0.220	6.69	-253.4	3.88	1000+	2.8
1436	20.71			3.37	0.176	6.76	-257.0	4.95	1000+	3 gal
	20.73	400	12V	3.54	0.182	6.43	-245.0	4.07	1000+	

GROUNDWATER LOW-FLOW PURGING FORM (continued)

14MWØ1

FIELD PARAMETER MEASUREMENT (Continued)

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1458	21.51	13V		3	stopped pumping - water fell below pump					
1506	20.90	14V		4.39	0.159	6.59	-213.8	4.09	696	4.5
1512	20.61	12V		3.33	0.153	6.48	-197.3	4.84	446	5.5
1521	19.86	12V		2.99	0.151	6.53	-202.1	3.91	157	
1524	20.45	12V		2.89	0.148	6.51	-191.9	3.78	124	7

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014
Well No.: MMW02
Job Number: 34140087
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/22/14 Time:
Purged by: L. Kleppin (Signature)

14NCMOCGW11 1700 14NCMOCGW12 1730

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 16.70

Water Level Depth (WL in feet BTOC): 11.23

15.5

PURGE METHOD

☐ Pump – Type: SS monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): Screen Interval in Feet (BTOC)

PURGE TIME

1555 Start 1655 Stop 1hr Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

15.5 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1555										
1600	11.61	11.3V		1.81	0.197	6.40	-81.3	3.52	1000+	0.7gal
1603	11.95 ~~12.86~~	11.3V		1.51	0.217	6.28	-80.5	2.57	1000+	2.0gal
1638	12.04	11.3V		1.32	0.185	6.36	-115.7	1.17	122	12gal
1644	12.04	11.3V		1.33	0.185	6.38	-117.6	0.97	110	13gal
1648	12.05	11.3V		1.39	0.183	6.34	-107.2	2.13	83.6	14gal
1651	12.03	11.3V		1.36	0.184	6.38	-103.2	1.29	66.2	15gal
1655	12.03	11.3V	1100	1.38	0.183	6.39	-103.8	1.17	68.6	15.5

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014
Job Number: 34140087
Company: BERS
Purged by: L. Kleppin

Well No.: 14MWØ3
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/23/14 Time: 0920

(Signature)

14NCMOCGW13 1050

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 23.83

Water Level Depth (WL in feet BTOC): 13.35

22.3

PURGE METHOD

☐ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☒ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): Screen Interval in Feet (BTOC)

PURGE TIME

0923 Start 1010 Stop 37 Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

gallons

FIELD PARAMETER MEASUREMENT

5s/40mL

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
0923		15V								
0930	~~23~~ 19.81		dry @ 19.9'		pump lowered		to 23'			1.5 gal
0949	17.29	12V	480							
0959	21.71	10V	133	3.41	0.481	6.65	-404.9	8.03	941	2.5 gal
1003	21.91	10V	133							
1005	22.30	10V	purged dry		(@ lowest flow rate		133/ml/min	drawdown)		2.5 gal
1030	19.11	0V	allowed to recover, sampled from							
			11 – 12							

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014 | Well No.: 14MW-4
Job Number: 34140087 | Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS | Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 9/23/14 | Time:
Purged by: E. Barnhill | EB (Signature)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 14.~~62~~75 EB

Water Level Depth (WL in feet BTOC): 4.35

10.85

PURGE METHOD

☐ Pump – Type: Hurricane

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☒ Other

Depth in feet (BTOC): Screen Interval in Feet (BTOC)

PURGE TIME

1020 Start 1129 Stop 69 Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

24 gallons

FIELD PARAMETER MEASUREMENT

measured conductivity

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1023	~~5.45~~ 4.65	9.1 v	1200	5.10	864 *	5.67	-92.5	.47	+1000	—
1051	4.39	9.1	1200	5.86	820	5.94	-11.7	.34	111	12
1107	4.39	9.1	1200	5.93	817	5.93	16.9	.35	85.5	16
1121	4.39	9.1	1200	5.89	816	5.93	11.4	.79	78.6	24
1129	4.40	9.1	1200	5.90	819	5.92	27.3	.33	89.8	

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GROUNDWATER LOW-FLOW PURGING FORM

Job Name: NeCape 2014
Well No.: 14MW05
Job Number: 34140087
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/23/14
Time: 1338
Purged by: L. Kleppin
(Signature)

14NCMOCGW15 1500

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 14.30'

Water Level Depth (WL in feet BTOC): 4.65'

12.40

PURGE METHOD

☒ Pump – Type: SS Monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC)

PURGE TIME

1338 Start 1440 Stop 62 Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

ACTUAL PURGE VOLUME

10 gallons

FIELD PARAMETER MEASUREMENT

brown, silty, fuel odor, sheen

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1340	6.01	9.1V		2.63	0.266	6.15	-135.4	5.31	431	0.9
1401	12.40	9.1V		3.11	0.339	6.31	-71.1	3.21		5
1410	12.40	7.1V	200	3.30	0.227	6.31	-49.6	3.20		7
1436	11.73	7.1V	200	3.55	0.219	6.16	-46.6	3.92		9.5
1440	11.62	7.1V	200	3.61	0.219	6.23	-39.3	3.50	173	10

Bristol
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REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014
Well No.: 14MW-6
Job Number: 34140087
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/23/14
Time:
Purged by: E. Barnhill
(Signature)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 14.55

Water Level Depth (WL in feet BTOC): 5.61

PURGE METHOD

☐ Pump – Type: Hurricane

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): 8 Screen Interval in Feet (BTOC)

PURGE TIME

1400 Start 1506 Stop 1hr 6min Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

16 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1400 hours	5.61	9.0	1200	2.80	1.377	6.03	47.7	34.1	+1000	—
1426	6.25	9.0	|	2.56	1.396	5.88	-40.8	.38	148	
1441	6.04	9.0	|	2.54	1.408	6.04	-51.8	.32	52	18
1451	6.4	9	|	2.51	1.422	6.10	-63.5	.32	38	12
1502	6.3	9	1200	2.57	1.429	6.21	-68.5		28	16

Bristol
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REMEDIATION SERVICES, LLC

GROUNDWATER LOW-FLOW PURGING FORM

Job Name: Ne Cape 2014
Well No.: 14MW07
Job Number: 34140087
Well Type: ☒ Monitor ☐ Extraction ☐ Other
Company: BERS
Well Material: ☒ PVC ☐ St. Steel ☐ Other
Date: 8/21/14 Time:
Purged by: L. Klepper (Signature)

14NCMOC GW07 1730

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC): 32.94

Water Level Depth (WL in feet BTOC): 27.35

PURGE METHOD

☐ Pump – Type: SS monsoon

☒ Submersible ☐ Centrifugal ☐ Bladder ☐ Peristaltic.

☐ Other – Type:

PUMP INTAKE SETTING

☐ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): 31 Screen Interval in Feet (BTOC)

PURGE TIME

1615 Start 1710 Stop 55 Elapsed

PURGE RATE

Initial gpm Final gpm

ACTUAL PURGE VOLUME

1.75 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Water Depth below MP	Pump Dial	Purge Rate (ml/min)	T ☒ °C ☐ °F	Specific Cond. (µS/cm)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Cumulative Volume Purged
1615										
1620	30.91	21.5V		6.21	0.306	6.83	-419.1	3.35	1000+	1gal
1635	30.91								1000+	1.5gal
1645	30.91	21V		6.49	0.275	6.90	-385.4	4.52	1000+	
1710	30.91	21V	120						1000+	1.75gal
	Pumped dry (to pump height @ 32') 4 times, allowed to									
	recover and sampled @ 1720 - 1730									

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WATER LEVEL FORM

L. Klepping E Barnhill, R James 8/25/14

Well Name	Measurement Time	Measuring Point	Depth to Water	Elevation of Measuring Point	Water Level Elevation	Comments
14MW01	1114	TOC	16.16'			
14MW02	1119		11.26			
14MW03	1123		13.40			
14MW04	1126		4.42			
14MW05	1129		4.81			
14MW06	1138		5.65			
14MW07	1145		27.52			
MW 88-3	1132		13.96			
MW 17-1	1108		12.59			
MW 88-10	1153		22.51			
MW 88-1	1157		18.65			
22 MW2	1059	TOC	29.48'			
26 MW1	1053	TOC	36.85'			
20 MW1	1150		24.42			
MW 10-1	1140		7.15			

HACH DR900

Well Name	Sample	Nitrate (Cadmium Reduction Method (0.50 mg/L) 0.01 - 50 mg/L 351N Nitrate LR)	Sulfate (680 Sulfate)	Dissolved Manganese (Mn, Periodate Oxidation method 0.1 - 20.0 mg/L 690 Mn HR)	Ferrous Iron (255 Fe Ferrous)	Alkalinity (Total Alkalinity Test Strips)
	14NCMOCGW01	0.05mg/L	6mg/L	0.2 mg/L	0.02 mg/L	80ppm
	14NCMOCGW02	0.08mg/L	6mg/L	0.0mg/L	0.02 mg/L	60ppm
	14NCMOCGW03	0.11 mg/L	5mg/L	0.0mg/L	under measuring range "---"	60 ppm
	14NCMOCGW04	0.20 mg/L	6mg/L	0.0mg/L	---	80 ppm
	14NCMOCGW05	0.02mg/L	5mg/L	0.2mg/L	---	40 ppm
	14NCMOCGW06	0.00mg/L	7mg/L	0.0mg/L	0.85mg/L	80ppm
	14NCMOCGW07	<0.01mg/L ---	1mg/L	0.3mg/L	0.25mg/L	40ppm
	14NCMOCGW08	0.07mg/L	3mg/L	0.0mg/L	0.03mg/L	40ppm
	14NCMOCGW09	0.12 mg/L	3mg/L	0.0mg/L	0.04mg/L	70ppm
	14NCMOCGW10	0.03mg/L	4mg/L	0.0mg/L	0.11mg/L	70ppm
	14NCMOCGW11	0.00mg/L	3mg/L	0.9mg/L	1.25mg/L	100ppm
	14NCMOCGW12	0.00mg/L	3mg/L	0.9mg/L	0.86mg/L	80ppm
	14NCMOCGW13	---	8mg/L	0.9mg/L	0.89mg/L	180ppm
	14NCMOCGW14	0.00mg/L	12mg/L	0.6mg/L	0.81mg/L	140ppm
14MW05	14NCMOCGW15	0.00mg/L	6mg/L	0.7mg/L	0.95mg/L	
14MW-6	14NCMOCGW16	0.00mg/L	3mg/L	1.6mg/L	1.75mg/L	
MW10-1	14NCMOCGW17	0.07mg/L	3mg/L	0.1mg/L	0.00mg/L	

Note: Manganese samples were not filtered and pH was not adjusted ~~using NaOH~~ RJ

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

ALL-WEATHER
ENVIRONMENTAL FIELD BOOK

Name Lyndsey Kleppin - Bristol Environmental

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Anchorage, AK 99501

Phone 907 563 0013

Project Ne Cape HTRW 2014
#34140087

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

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Location SLI Date 7/22/14

Project / Client Ne Cape 2014

0530 Airport - ANC → NOM 0700
0900 Bering Air stand by
1300 Bering Air → STL
1400 Arrive STL

Unpack, set up tent office, printer
Enviro-connex

Location SL1 Date 7/23/14

Project / Client Ne Cape 2014

0700 Health and Safety
Rain, high winds, 45°F

Locate enviro connex, equipment and sample containers

0930 Preparatory phase meeting
Jeremy Craney USACE
Chuck, Maize, Russell, Eric

- will take duplicate MOC SW sample during this event
- clarification needed on screening interval at MOC POL dig sites - use PID?

MOC Preliminary Surface Water Sampling

14NCMOCSW01 1540
14NCMOCSW04 (DUP) 1550
Turbidity: 60.6 NTU orange, cloudy w/ biogenic sheen

14NCMOCSW02 1610
Turbidity: 8.40 NTU orangeish w/biogenic sheen
Area has been impacted by side-by-side tread standing water in tracks.

14NCMOCSW03 MS/MSD 1630
Turbidity: 3.61 clear, green vegetation no sheen

Location SL1 Date 7/23/14

Project / Client Ne Cape 2014

= standing water

Complete pre-stockpile sampling at MOC with Eric and Russel ~90 samples

End 1730
10 hours

Location SL1 Date 7/24/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting
vehicle walk-arounds, seat belt use
Scott will survey PSP sample points
Liner being placed - will begin at most downgradient excavation - C - when complete (Jeremy okd)
Waste characterization samples needed for drums in waste connex:

2 drums - composite water sample taken from 2 bung-top drums - "misc waste" and "bootwash" near door 2013 waste

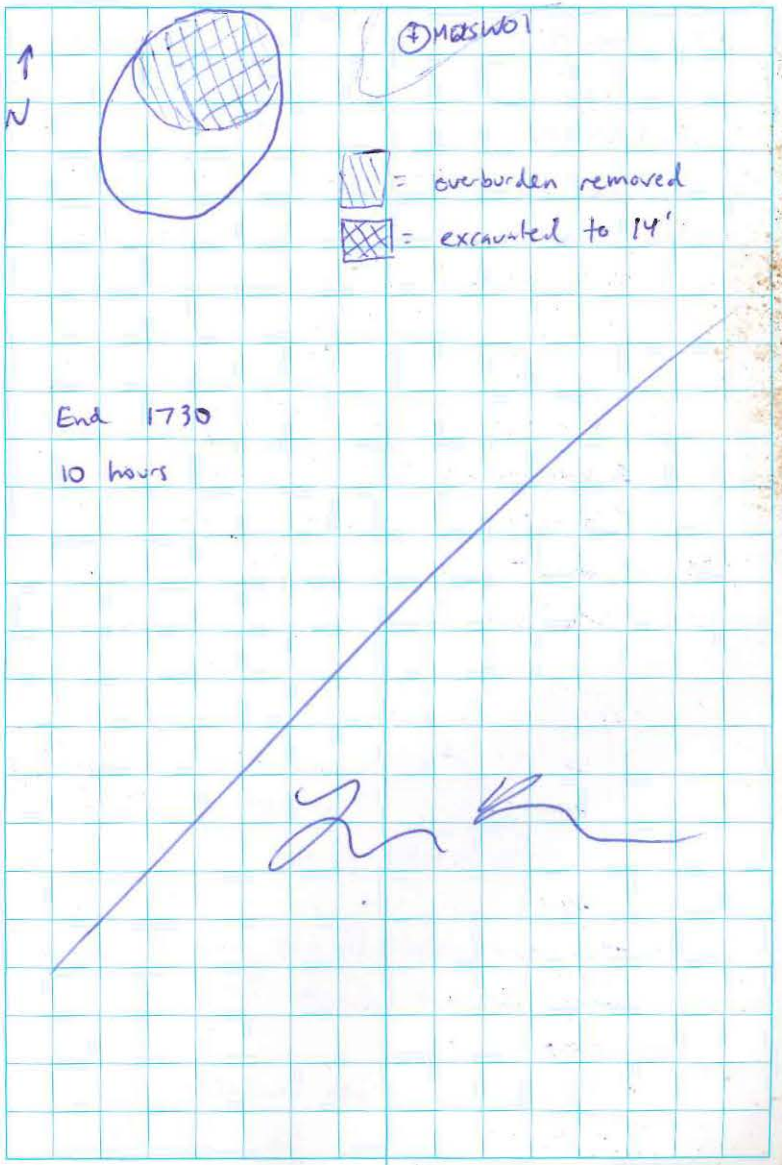
1130 14NCBOOTWASH2 1130
VOC / SVOC / PCB / metals / ignitability / pH

Begin excavation at C Plume
10'-14' Reference elevation @ topographic high
~3' difference between S and N of plume

C plume: peat to 6' grey silty clay ~1' of clean clayey sand, dry, strong odor @ ~7' near North excavation wall
water entering excavation floor @ 14.5'
strong sheen

Location SL1 Date 7/24/14

Project / Client Ne Cape 2014



End 1730
10 hours

Location SL1 Date 7/25/14

Project / Client Ne Cape 2014 34140087

0700 Health and Safety Meeting - accident prevention

Pack up MOC surface water samples for shipment

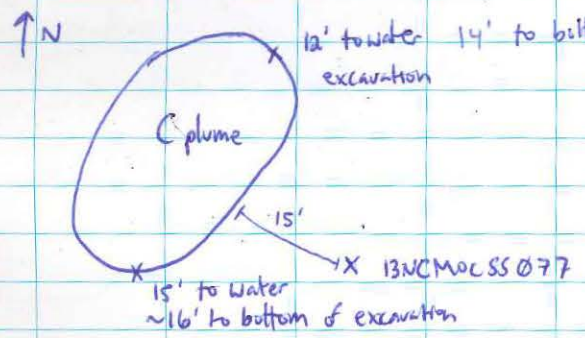
COC # 072514-1 MOC SW samples 14NCMOCSW01-04

072514-2 drum and ash waste characterization samples 14NCBOOTWASH1 and 2

14NCASH1

3 coolers shipped via Goldstreak

1300 C excavation with Jack - water has risen ~2'



C will be extended ~15' east to meet dirty 2013 confirmation sample 13NCMOCSS077 per USACE QAR

10' length of 3" steel pipe removed from dig-out near 13NCMOCSS077

Location SL1 Date 7/25/14

Project / Client Ne Cape 2014

Move to E1, remove overburden

1st 4' of overburden to maintain excavator access throughout - construct ramp for reach to 15'

End 1730

10 hours

Location SL1 Date 7/26/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting

Disease transmission in camp - preventative measures

Remove upper 4' of overburden @ E1

4'-7' taken to 2° stockpile for overburden

with strong fuel odor east of 1° stockpile

C Plume sidewall and floor confirmation

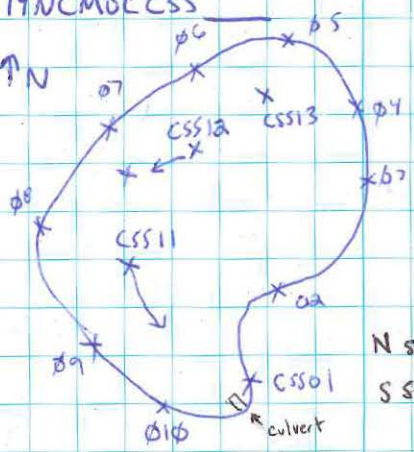
14NCMOCCSS01	SW	1040	
14NCMOCCSS02	SW	1045	
14NCMOCCSS03	SW	1050	
14NCMOCCSS04	SW	1055	
14NCMOCCSS05	SW	1100	
14NCMOCCSS06	SW	1105	
14NCMOCCSS07	SW	1110	
14NCMOCCSS08	SW	1115	
14NCMOCCSS09	SW	1120	
14NCMOCCSS10	SW	1125	
14NCMOCCSS11	FL	1130	
14NCMOCCSS12	FL	1135	
14NCMOCCSS13	FL	1140	
14NCMOCCSS14	DUP	1145	CSS01
14NCMOCCSS15	DUP	1150	CSS02

Sample locations GPS'd by Trimble Geo XT until surveyors return for final survey

Location SL1 Date 7/26/14

Project / Client Ne Cape 2014

14NCMOCCSS



sidewall samples taken from ~1' above water

COC #072614-1

MOC C plume floor + sidewall samples submitted to on site lab.

N side - 12' to bottom, 10' to water

S side - 15' to bottom 13' to water

Resume E1 excavation dug to 15' → water @ 15'

water + sheen filling excavation from far east sidewall

End 1750

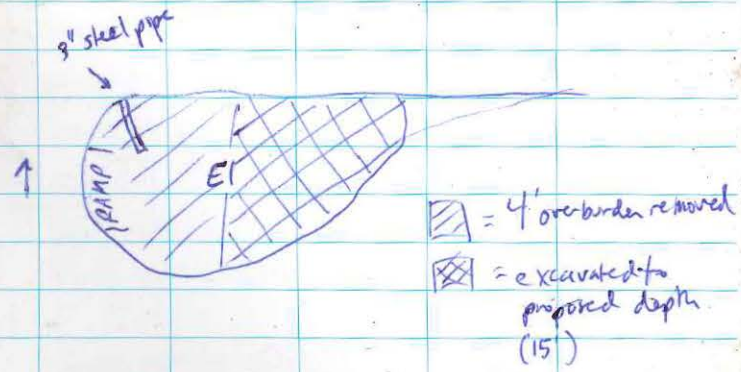
10 hours

Location SL1 Date 7/27/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting
communication in the field

0800 Preparatory Phase Meeting site 32 / site 10
@ site 10
GRO DRO/RRO, PAH, PCB, Metals, Glycol
VOC
1 DUP, 1 MS/MSD 5 historic sample locations
DRO/RRO to field lab
Glycol to Denver
rest to Tacoma 2 day TAT
recontouring @ site 10? Take sample @ 1.5', 1'
@ site 32
3 historic sample locations, 2 excavation areas
Russel will double check sample depths
DRO/RRO field lab

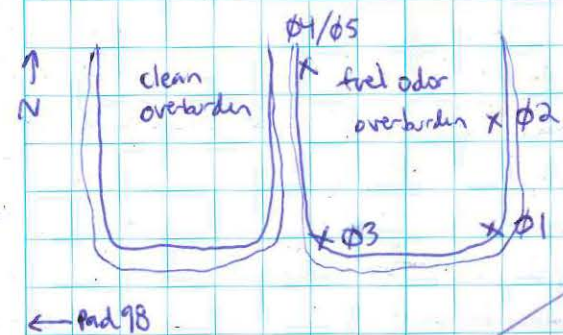


Location SL1 Date 7/27/14

Project / Client Ne Cape 2014

Field lab results for C plume in
14NCMOCCSS001, 002, 010 above 9200 mg/kg
Dirty stockpile samples (E1/C plume overburden 4'-7')

14NCMOCSP01	1100	MS/MSD
14NCMOCSP02	1105	
14NCMOCSP03	1110	
14NCMOCSP04	1115	
14NCMOCSP05	1120	DUP of 04



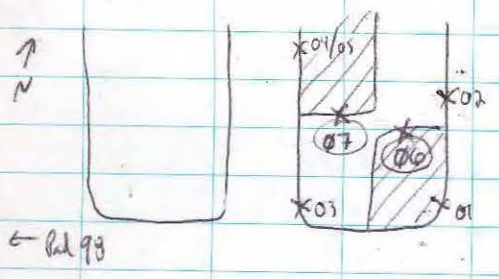
End 1730
10 hours

Location SL1 Date 7/28/14

Project / Client NeCape 2014

0700 Health + Safety Meeting: PPE
Environmental Meeting

Bagging at Pad 98
Dig out NCMOCSP01, 04/05 at fuel odor overburden pile



= excavated stockpile material taken to Pad 98 for bagging

Collect samples NCMOCSP06 and SP07
1010 1015

submit samples to field lab COC # 072814-4

E1 Excavation north sidewall: encountering E2 footprint/liner/fill material to 12' bgs

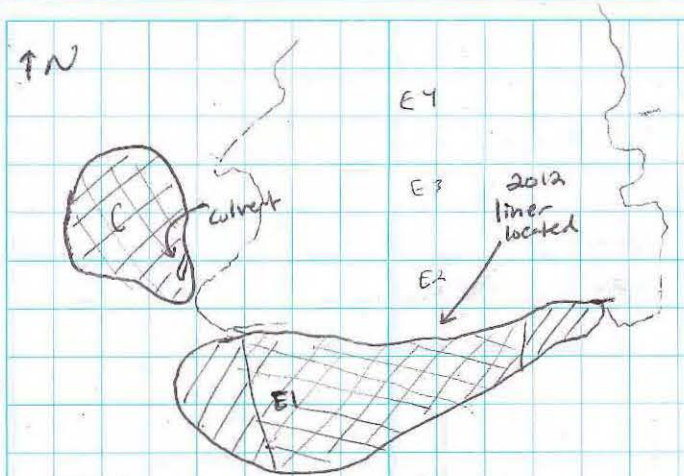
North side of E1 excavation: 12 feet to water bgs
15 feet to bottom

Excavating to 2 feet below water (~14' bgs) along N sidewall

South side of E1 excavation: ~4' fill material on top of clayey gravel/gravelly clay

Location SL1 Date 7/28/14

Project / Client Ne Cape 2014



= 2013 excavation extent

= 7/28/14 dig extent

= overburden removed

= overburden and 7'-15' bgs interval removed

End 1730
10 hours

Location SL1 Date 7/29/14

Project / Client Ne Cape 2014

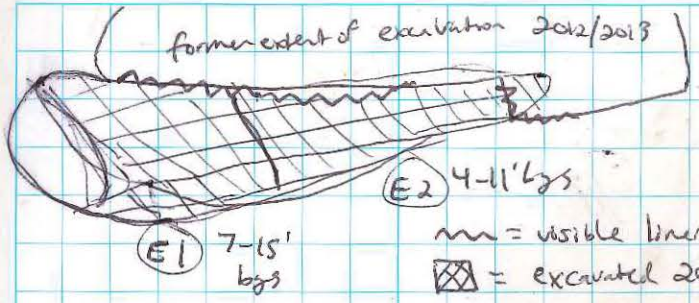
0700 Heath and Safety Meeting - AHAs
Environmental Meeting
14NCMOCSP06 and 07 10,000 mg/kg +
preliminary results from field lab
Remove SP samples from fuel odor ole-burden
stockpile (NCMOCSP06 and 07)

Continue trenching along Ed boundary
4-11' east side of excavation - water at 11' bgs

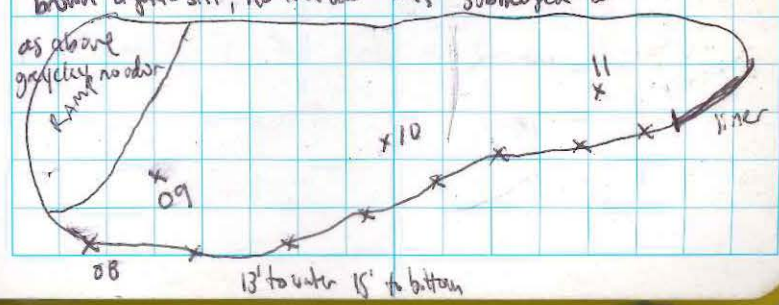
14NCMOCESS	01	1300	SW
" "	02	1305	SW
	03	1310	SW
	04	1315	SW
	05	1320	SW
	06	1325	SW
	07	1330	SW
	08	1335	SW
	09	1340	FL
	10	1345	FL
	11	1350	FL
	12	1355	DUP of 03

Location SL1 Date 7/29/14

Project / Client Ne Cape 2014



→ frozen grey clay with dark brown peat 8-10' bgs no odor
same
moist brown peaty silt 8' bgs fuel odor
moist dark brown silty peat w/ grey clay 8' bgs fuel odor
moist brown organic silt w/ grey clay 8' bgs no fuel odor
same as above with ½" thick discontinuous lens of black peat with fuel odor
sandy gravel, brown, moist, strong fuel odor 7' bgs
as above
brown organic silt, no fuel odor ~15' submerged 2'



Location SL1 Date 7/29/14

Project / Client Ne Cape 2014

General cross section @ S sidewall of E1

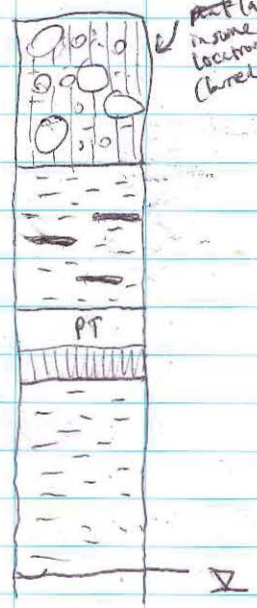
~ 2-3' fill (silty gravel)

~ 3' grey gravelly clay with discontinuous peat lenses

6"-1' peat

1'-2' organic silt

grey clay to water, moist or frozen

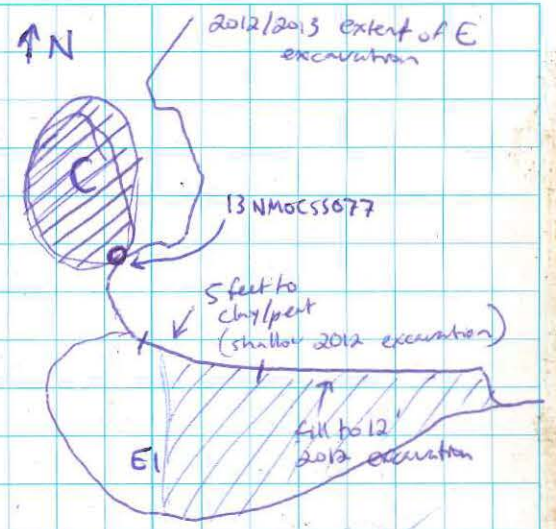


excavation floor below water organic silt/peat layer

SW corner of E1 sidewall has beach sand fill/gravel with strong fuel odor as observed in 2013 at F plume

Location SL1 Date 7/29/14

Project / Client Ne Cape 2014



End 1730

10 hours

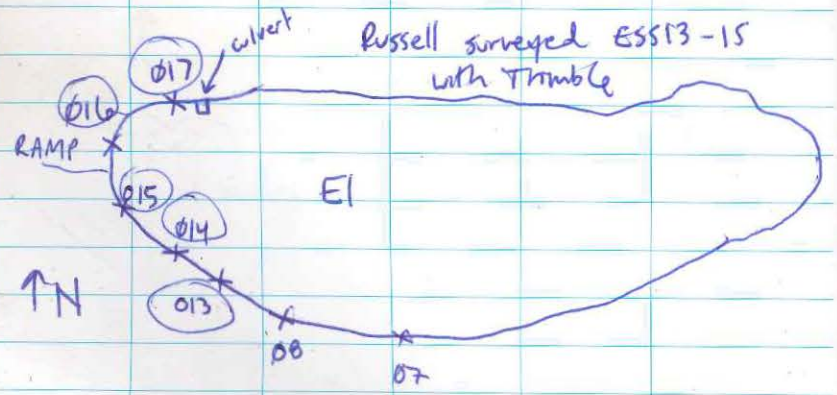
Location SLI Date 7/30/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting - accident response
Environmental Meeting - lab results in from Seattle
C Plume excavation: one hot spot 14NCMOCESS001
Preliminary results suggest 14NCMOCESS003/12 and 004
are above clean up level

Excavate W extent of E1 plume to 15' bgs
Excavation inundated with water to 2' depth +

14NCMOCESS013	1520	brown silty gravel + sand
014	1525	same
015	1530	grey clayey gravel
016	1535	same
017	1540	same + organic silt
018	1545	DUP of 14



Russell surveyed ES513-15 with Trimble

Location SLI Date 7/30/14

Project / Client Ne Cape 2014

Need survey of 14NCMOCESS016 and 17
with Trimble GPS

fuel
odor

End 1730
10 hours

Location SL1 Date 7/31/14

Project / Client Ne Cape 2014

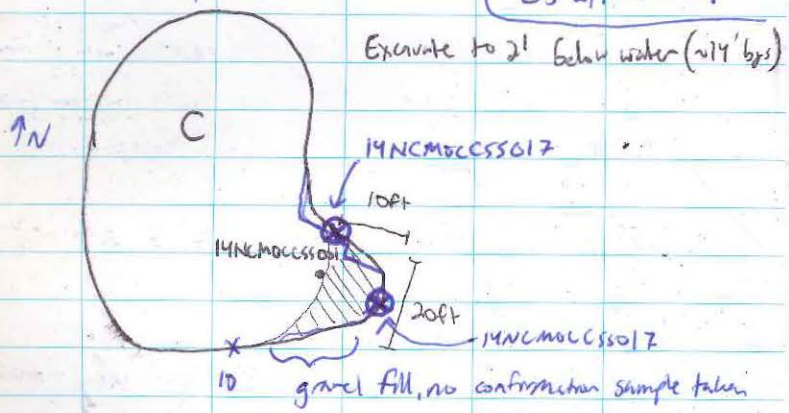
0700 Health and Safety - AHAs
Environmental Meeting

Dig out hot spot @ C sidewall: 14NCMOCCSS001

14NCMOCCSS016 0930 bucket profile included
14NCMOCCSS017 0935 grey CL, PT, OM, no fuel odor below GS w/fuel odor.

organic silt/grey clay w/fuel odor

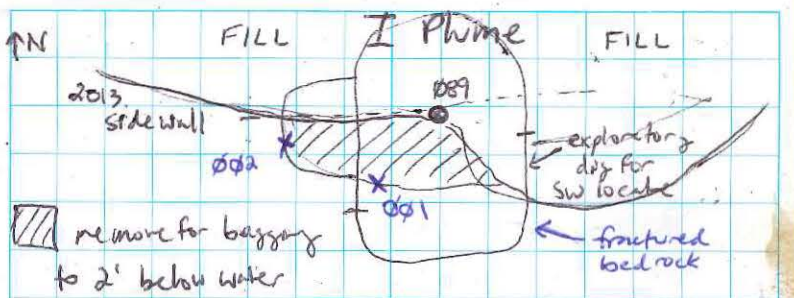
Excavate to 2' below water (~14' bgs)



Move to I Plume, 13NCMOCSS089.
Target depth: 10-14' bgs (UVOST)
Sample depth was approximately 6-7' bgs due to water in 2013. Remove 5' overburden, locate fill/sidewall contact.
@ 7' bgs water beginning to fill excavation

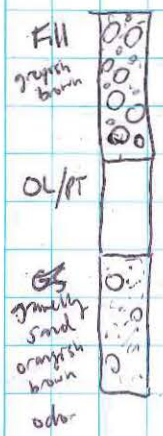
Location SL1 Date 7/31/14

Project / Client Ne Cape 2014



remove for bagging to 2' below water

strong odor, sheen, oily foam on water surface
liner located west of 089



14NCMOCISS001 1330 frozen brown clayey gravel + PT no fuel odor
14NCMOCISS002 1335 orange sandy gravel w/fuel odor
14NCMOCISS003 1340 DUP of 002

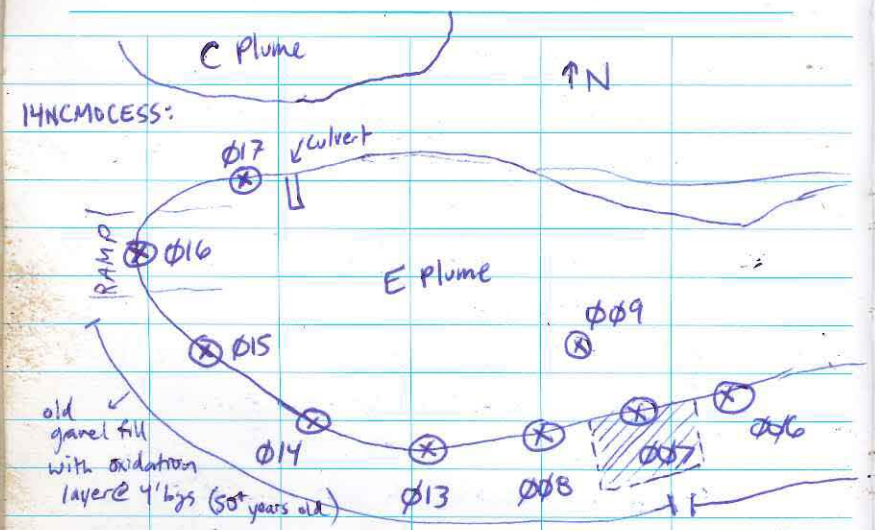
10' to water as measured from 5' sidewall
13'-14' to bottom

Sample 002 collected from orangish brown sandy gravel layer @ ~6' bgs

Excavation Confirmation Status:
→ C Plume: 14NCMOCCSS001 - 017 3 Floor, 12 sidewall
DUPS: 10/14, 02/15
→ E Plume: 14NCMOCSS001 - 18 3 Floor, 13 sidewall
DUPS: 03/12, 14/18
→ I Plume: 14NCMOCSS001 - 003 all sidewall
DUPS: 02/03

Location SL1 Date 7/31/14

Project / Client Ne Cape 2014

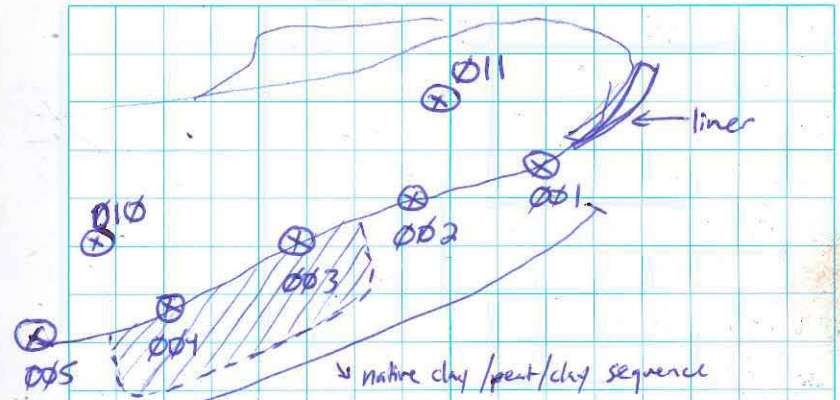


Excavations C, E and I all have greater than 2 feet of water.

Remove 4' of overburden to clean stockpile
4'-7' to dirty stockpile
7-15' to Pad 98(E1) 7-11 to Pad 98(E2)

Location SL1 Date 7/31/14

Project / Client Ne Cape 2014



To do: get area of C, E to determine floor sample number
Get floor sample at I Plume
Sample removal areas at E: 007, 003/004
Stock gel-ice for water shipments
Prepare bottles for water sample shipment

End 1730
10 hours

Location SLI Date 8/1/14

Project / Client Ne Cape 2014

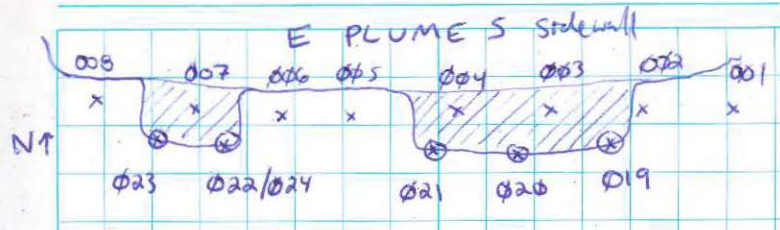
0700 Heath and Safety Meeting - Safety facts
Environmental Meeting - drill rig stuck in Stebbins
Yesterday's C plume dig out and I plume samples appear to be below cleanup levels based on field lab dilutions
J. Crane notified USACE we are close to 4,000 tons
60° F, partly cloudy w/ fog, breezy (10mph)
Samples Erie collected at site 10 and 32 appear to have exceedences of fuels - exercise soil removal options for both sites?

Removal of dig out spots 14NCMOCESS003/004, 007
Step out at 14NCMOCESS004 - encountering fill from G excavation - follow fill line + remove native peat/clay to Pad 98

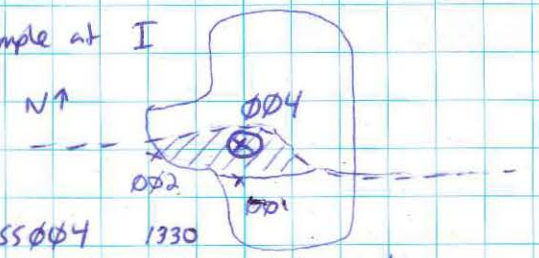
14NCMOCESS019	1130	gravelly sand, grey, wet, strong fuel odor
020	1135	taken 12' bgs above water below fill; clayey sand w/ black oil
021	1140	frozen grey clay no fuel odor
022	1145	grey clayey sand, strong fuel odor
023	1150	grey clayey gravel with black oil collected directly above water (12' bgs)
024	1155	DUP of 022

Location SLI Date 8/1/14

Project / Client Ne Cape 2014

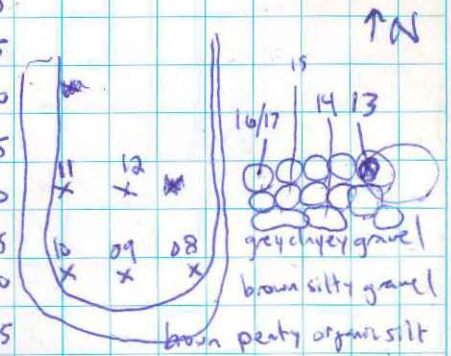


Floor Sample at I



14NCMOCISS004 1330
Floor sample taken from 3' below water
brown silty sand, wet, with sheen
submitted to field lab COC# 080114-2.

14NCMOCSP008	1530	
009	1535	
10	1540	
11	1545	
12	1550	
13	1555	
14	1600	
15	1605	
16	1610	
17	1615	



submitted to field lab COC# 080114-3

Location SLI Date 8/2/14

Project / Client Ne Cape 2014

0700 Health and Safety - open excavations
Environmental Meeting - All sidewall samples clean preliminary results
Excavation at site 10 and 32 - pending results
"During" surface water samples @ MoC
GRO pro/ARO / PAH / ~~PCB~~/~~metals~~ collect tomorrow
Drill rig delayed in Stebbins

Environmental connex organization
Prep labels for surface water

Pad 98 Bagging operation/waste characterization

End 1730
10 hours

Location SLI Date 8/3/14

Project / Client Ne Cape 2014

0700 Health and Safety PADS
Environmental Meeting

MOC Surface Water "during" sampling: C E and I excavations open
MOCSW01 - water is ~ 8" lower than previous event
12.62°C temp 7.27 pH
0.336 ms/cm sp. cond -85.9 ORP
3.40 mg/L DO Turb ~~65.9~~ 21.6 NTU
some bigenic sheen present, clear and orangish
14NCMOCSW05 1015 BTEX, GRO, DRO/ARO, PAH
14NCMOCSW08 1030 DUP
Turbidity reading varied from 70-20 NTU due to organisms in water
MOCSW02
13.61°C temp 6.66 pH
0.167 ms/cm sp. cond -85.1 ORP
3.60 mg/L DO 434 NTU Turb
bigenic sheen, orange algae
14NCMOCSW06 1100

MOCSW03
13.85 °C temp 6.63 pH
0.120 ms/cm sp. cond -8.9 ORP
8.61 mg/L DO 26.8 Turb

Location 3L1 Date 8/3/14

Project / Client NeCape 2014

14NCMOCSW07 1140 MS/MSD

Bagging operations at Pad 98
to MOC 499 A

1730 End
10 hours

Location SL1 Date 8/4/14

Project / Client Ne Cape 2014

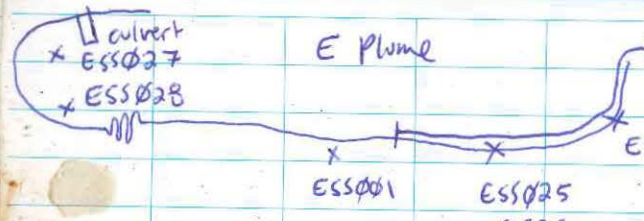
0700 Health and Safety Heat + Cold Stress
Environmental Meeting
Timesheet 50°F, foggy, low winds

Preparatory Phase Meeting: MW Installation
10' slotted screen
2" schedule 40 PVC
20/40 silica filter pack
10/20 silica sand pack
bentonite chips
8" steel manhole
Sono tube for concrete-rounded gravel
↑ check on materials
HSA
2 soil samples - one groundwater interface / 1 @ bottom (most impacted)
DRO/RRO, RCRA metals, PCB, PAH, BTEX/GRO
PID continuously
highest PID hit - grab sample
wells placed E3/I1 midpoint in gravel
if no impacts observed

Preparatory Site 32/10 Excavation

Location SLI Date 8/4/14

Project / Client Ne Cape 2014



14NCMOCESS025	0935	SW	greyish brown clay w/ organic silt, moist, no fuel odor
14NCMOCESS026	0940	SW	grey clay, moist, with peat, no fuel odor
14NCMOCESS027	0945	FL	grey clay, wet with peat strong fuel odor
14NCMOCESS028	0950	FL	grey sandy silt, wet strong fuel odor

Soil samples submitted to field lab

surface water sample packaged COC#080414-1

3 coolers to Tacoma weather permitting

+ 2 coolers w/ site 10

End 1730

10 hours

Location SLI Date 8/5/14

Project / Client Ne Cape 2014

0700 Health and Safety - site reorientation

Environmental Meeting - drilling @ MOC

auger/test pits @ site 21 Arsenic

GeoTek Alaska - Trent and Tim Beckner

Calibrate PID - span calibration 100ppm isobutylene gas

Assemble jars/scale/methanol/field forms

Set up on MW-7. See boring logs

14NCMOCWELLSS01 1000 MS/MSD @ gw no PID hits

4 8oz jars, 3 4oz MeOH jars

14NCMOCWELLSS02 1015 @ bottom of boring

Move to MW-2 (west well)

14NCMOCWELLSS03 ~~10~~ 1100 @ gw (~12' bgs)

14NCMOCWELLSS04 1115 @ bottom of boring

@ groundwater/highest PID hit

Set up on MW-3

14NCWELLSS05 1300 gw/highest PID

14NCWELLSS06 1400 DUP of 05

14NCWELLSS07 1420 bottom of hole

Set up on MW-1

All soil samples collected so far are from bottom of excavation and the groundwater interface (which is highest PID)

Location SL1 Date 8/5/14

Project / Client Ne Cape 2014

MW-1 far west well location (see boring log)

14NCWELLSS08 1540 @ gw interface

highest PID reading = 0.8 ppm, not sampled

14NCWELLSS09 1600 bottom of boring

MW-4 E plume footprint (see boring log)

14NCWELLSS10 1700

Midway in fill material, at gw interface

14NCWELLSS11 1710

Highest PID reading (18.9 ppm) @ bottom of hole (15' bgs)

Set up on MW-5 for tomorrow.

Sample management

End 1730

10 hours

Location SL1 Date 8/6/14

Project / Client Ne Cape 2014

0700 Health and Safety - drilling operations

Environmental Meeting - waste characterization

Samples @ site 10, site 6 historical sample, hot C for GeoTek

COC 080614-1 14NCWELLSS01 - 11 DRO/RRO

for field lab

COC 080614-2 MOCBW494-500 DRO/RRO

for field lab

GeoTek - set up on MW-5 (I Plume footprint)

14NCWELLSS12 0920

~~14~~ collected from gw interface in fill

14NCWELLSS13 0930

bottom of hole/highest PID (421 ppm)

14NCWELLSS14 0940 DUP

Move to MW-6 (J1A footprint) near MW 10-1

14NCWELLSS15 1035

collected from gw interface/highest PID (133 ppm)

14NCWELLSS16 1040

bottom of boring (~15')

See boring logs for sample lithologies, depths

Samples also analyzed for glycol

Location SLI Date 8/06/14
Project / Client NE Cape 2014

COC 080614-3 14NCWELLSS01-16
2 coolers with Trip Blank, excepted quantity

→ email sent out indicating 14NCWELLSS15 and 16 should not be analyzed for glycol (per Julie Clark and Jeremy - error in QAPP)

Timothy Beckner located sono tubes in drums

COC 080614-4 14NCWELLSS12-16
DRO/RRO to field lab

Site 6 Historical Sample Locate / Resample
Test Pit 1: Eco-Land survey point
14NC06SS01 1600 @ 6" bgs MS/MSD
Below vegetative mat
14NC06SS02 1610 @ 18" bgs
Native ground beneath gravel (maybe fill)
14NC06SS03 (DUP of 02) 1620
NE corner of gravel pad, slightly N of pad ~2'
Test Pit 2: Trimble survey point of Historical sample location 09NC0075B003

Location SLI Date 8/6/14
Project / Client Ne Cape 2014

14NC06SS04 1630 @ 6"
Pad fill material
14NC06SS05 1635 @ 3.5 feet bgs

GeoTek - install MW-6 (near JIA fill)
Screen 5-15', Bentonite to 1' bgs
sand to 3' bgs completed at 1600
Move to MW-5, auger through coarse gravel.

Site 27 sample 14NC27SS01 submitted to field lab for DRO/RRO sampling COC #080714-2

Prepare site 6 PCB samples and site 27 napthalene samples for shipment

End 1730

Location SL1 Date 8/7/14

Project / Client Ne Cape 2014

0700 Health and Safety - wind
Environmental Meeting
Arsenic site 21 excavation - pre wal

Preparatory Phase Meeting - Site 21
200 tons removal @ 2 locations
confirmation sampling
Tentative background sample 17 mg/kg

Site 27 historical Naphthalene hit - surveyed + marked
UST-CS-27-EM-0401
Excavator used to take sidewall cuts below water to top of native soil (clay/peat). Sample taken at fill/clay interface ~2' below excavation water. Interface visible in bucket.
14NC27SS01 0830 MS/MSD
14NC27SS02 0840 DUP of 01
submitted to field lab for DRO/RRO and Test America for Naphthalene using 8270C per Jeremy Craner.

Bagging screened material at Pad 98
MoC POL

Location SL1 Date 8/7/14

Project / Client Ne Cape 2014

Scott + Arnauld missing 4 confirmation sample survey locations @ MOC
14NCMOCEGS014
14NCMOCCSS002
14NCMOCCSS008
14NCMOCCSS006
staked locations, will be surveyed

GeoTek finished MW-5 completion @ 1030
screen interval 5-15' static WL @ 9'6" bgs

Staked site 6 historical re-sample locations
~~TP~~ 14NC06TP01 (NE corner near pad)
14NC06TP02 (on pad, W of TP01)
Surveyed by Eco-Land

Eric collected site 21 pre-excavation water samples for total + dissolved arsenic

GeoTek begin MW-4. Encounter refusal @ 10'

End 1730

Location SL1 Date 8/8/14

Project / Client Ne Cape 2014

0700 Health and Safety - Heavy Equipment
Environmental Meeting - Dig @ site 10,
MI sampling @ site 28, well installation

site 10 Dig at spots (DRO/RRO)
14NC10SS017
14NC10SS 020
14NC10SS 022
14NC10SS 023

Well completion repair MW10-1 stick-up well
drilling rig transmission gear assembly shipment
to arrive today

Monitoring well repair -
17MW1 - new completion flush mount
in cement set in 18" Sono tube
88-1 - new completion flush mount in
cement set in 18" Sono tube

Sample management - packaging cooler w/
COC 080814-1 site21 water
080814-2 site21 soil
080814-3 site 6 PCB soil
080814-4 site 27 Naphthalene

Location SL1 Date 8/8/14

Project / Client Ne Cape 2014

Site 10 excavation (4 locations)
encountered black oily soil on SW corner of
NE excavation from 0'-2' bgs - hauled
off

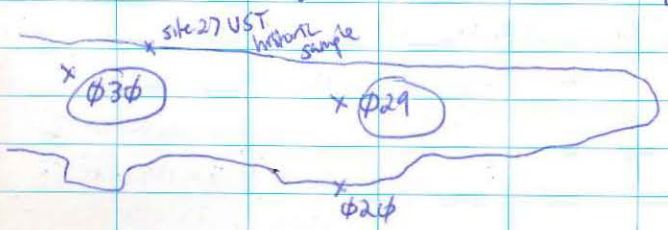
Johnny opened broken GeoTek 6620DT
gear box - retaining ring failed / slipped.
Ring put in place upside down so worn
side is not engaged when auger stem is
lifted

NO PLANE - low ceiling, fog
Final OK for excavation surveys from
Scott - areas of excavations from EcoLand:
E1 10,499 → need seven total, 5 collected
C 3,443 → collected 3
I1 856 → 1 FL collected in 2014 (w/2013
FL samples we have > 1/1,600
For one sample per 1,600 sq feet
CADEC approved frequency for submerged
floors) Need an additional 2 FL @ E1
Plane arrive @ 1830
1 cooler out

Location SLI Date 8/9/14

Project / Client Ne Cape 2014

0700 Health and Safety - changing conditions
Environmental Meeting - site 32, site 21
digging, backfill operations
Prebook cooler for 080814-1 through an Ak Air
Rain last night - excavation water higher



14NCMOCEØ29	0800	Floor	silty clay, grey MS/MSD
14NCMOCEØ3Ø	0810	Floor	silty clay, grey
14NCMOCE031	0815	Floor	DUP of Ø30

collected from ~4' below water @ excavation floor

To do: site 8 surface water sample
MOC "after" surface water
14 monitoring wells
site 21 dig
site 32 dig
post stock pile sample
site 28 MI sample

Submitted El floor samples to field lab @ 0900
COC # 080914-1

Location SLI Date 8/9/14

Project / Client Ne Cape 2014

MW-4 well installation - screen 5-15' bgs
well completion @ 0940 flush mount

0940 Begin HSA advancement at MW-3
Refusal encountered within top 5' at 3 different step-outs. Excavator used to advance to 10' bgs in coarse gravel + boulders. (water @ 17') direct push 8/5)
Excavation backfilled with screened <2" material. Drillers moved to MW-1.
Overburden pile w/ fuel odor used to backfill EI
14NCSPØ6 and 14NCSPØ7 not excavated previously from "dirty" stockpile due to <1' thickness over liner. Clean "dirty" stockpile sample truckloads which were not regraded (~~SP08~~ SP13 - SP17) were used as back fill @ El. Remaining graded material <1' thick on liner will be taken to Pad 98 for bagging.

Eric @ site 32 / site 28 MI
GeoTek drill rig part delivered to Gambell.
Repaired component is functioning (for now).

MW-1 - hard drilling, large gravel
1st attempt to 10 feet bgs

Location SLI Date 8/9/14

Project / Client NeCape 2014

Jeremy Craner requests additional characterization of "dirty" overburden stockpile material representing samples 14NCSPØ6 and Ø7. Material had been graded at stockpile area on liner and compacted by rock truck traffic. Moved to Pad 98 with underlying visqueen liner. A 7-point composite sample of organic silt/peat/silty clay material was collected for submittal to field lab

14NCSPØ18 1550

14NCSPØ19 1600 DUP

Drillers @ MW-3. Decon augers + move to MW-3

End 1800

10.5 hours

Location SLI Date 8/10/14

Project / Client Ne Cape 2014

0700 Health and Safety

Environmental Meeting - site 21 excavation - Eric

Post stockpile sampling @ overburden

set up 10'x20' grid sections 100' x 80'

on fuel odor overburden stockpile

silty gravel with strong fuel odor present

excavator with toothless bucket will be used to scrape overburden area clean prior to post stockpile sampling

Security aviation flight arrives - swap QAR

Jeremy Craner out, Aaron Sherman in.

MW-3 completed, screen at 12-22'

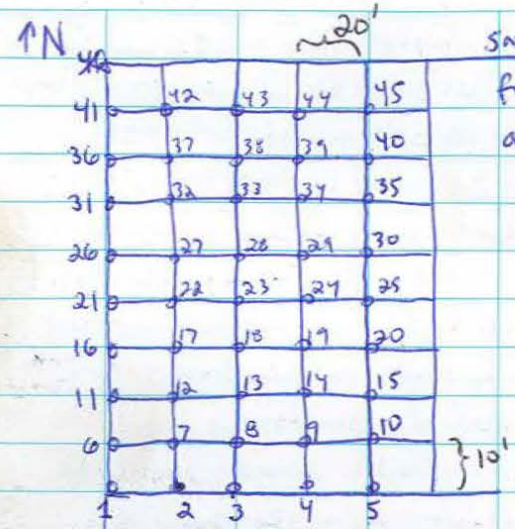
WL @ ~16' bgs measured through auger

Set up on MW-2, water @ 11' pre direct push borehole

Locate MW-7 - lathe missing

Location SL1 Date 8/10/14

Project / Client Ne Cape 2014



Samples collected for DRO/RRO analysis in field lab

Overburden stockpile samples

14NCPOSP01 - 14NCPOSP36

14NCPOSP01	1300	14NCPOSP08	1335
14NCPOSP02	1305	etc..	
14NCPOSP03	1310		
14NCPOSP04	1315		
14NCPOSP05	1320		
14NCPOSP06	1325		
14NCPOSP07	1330		

Location SL1 Date 8/11/14

Project / Client Ne Cape 2014

0700 Health and Safety - safety quiz
Environmental Meeting - post stockpile sampling, Eric preparing site & samples for shipment

GeoTek U-joint failed, repair by J. Willis. Parts ordered. Sitting on MW-7 @ 12' bgs with end cap in.
Submit 8/10 samples to field lab COC#081114-4 post stockpile
7 point composite sample taken from west pile at Pad 98 (last scraped material from overburden stockpile area footprint)

14NCSP020 1030
14NCSP021 1035 DUPLICATE

Sample collection of remaining discrete ob footprint:

14NCPOSP037	1100	14NCPOSP046	1145
038	1105	DUP of 40 - 047	1150
039	1110	DUP of 38 048	1155
040	1115	DUP of 37 049	1200
041	1120		
042	1125	DUP of 039	
043	1130		
044	1135		
045	1140		

Location SL1 Date 8/11/14

Project / Client Ne Cape 2014

COC # 081114 - 5 post stockpile discrete samples cont.
Pad 98 composite "dirty" overburden
stockpile material

Site 8 surface water (Mod 1)

1640 14NC08SWA001 near sugi, spring emerging from below vegetative mat

1.0	temp °C	-35.0	ORP
0.794	sp. cond	1.97	DO mg/L
6.8	pH	5.29	Turbidity NTU

Biogenic sheen (platy) no fuel odor, clear,

1700 14NC08SWA 002 Near pipeline break

1710 14NC08SWA 003 (DUP of 002)

12.5	temp °C	-44.9	ORP
0.208	sp. cond	1.35	DO mg/L
6.18	pH	441	Turbidity NTU

water lower than previous years. Sample location is a 1' diameter puddle 1" deep on top of a thin active vegetation mat with grass. 1/4" thick mat was peeled back to access water in gravel underneath.
Rocks had strong fuel odor and black film. Grey, turbid water with some fuel sheen
After allowed to settle 5 min, 210 NTU

Location SL Date 8/11/14

Project / Client Ne Cape 2014

Drillers at MW-7 Hard drilling, repaired U-joint + ordered parts from GeoTek base. Hammer sent to Nome.

Still drilling @ 2200.

Bristol End 1730
10 hours

Location SL1 Date 8/12/14

Project / Client Ne Cape 2014

0700 Health and Safety - decision making

Environmental Meeting:

Site 10 results in (still waiting on PAH, PCB, glycol)

10NC10SS013 PCE above migration to gw

10NC10SS008 Chromium " "

Site 7 Pending

Awaiting results for site 6

Remaining post stockpile samples

Drillers reached 24' last night - measure water level - no water. Boring logs indicate ~~wet soil @~~ free water in macrocore @ ~17' bgs

Discussion w/ Timothy Beckner (GeoTek driller) Aaron Shewman (USACE) Chuck Coley, Julie Allen

Site walk with Aaron Shewman - step out selected ~10' NE of proposed location on grassy triangle in center of intersection

Location excavated to ~14' bgs with 200 excavator (silty gravel, dry, cobbles up to 3' + boulders)

Backfilled + compacted w/ <2" screened borrow pit material

Location SL1 Date 8/12/14

Project / Client Ne Cape 2014

Email from Russell - ADEC request additional discrete samples from material @ Pad 9B.

4 primary + 1 DUP, 14NCSP022-26

Eric + Julie will collect

Complete sample collection for discrete post-stockpile, 14NCPOSP046-2

047-2

048-2

049-2

14NCPOSP050 - 14NCPOSP090

Submit to field lab. COC# ~~14NC~~ 081214-1

Break for dinner 1730. Return to MW-7 to log auger cuttings / take water levels @ 1830

MW-7 @ 27' bgs, macrocore inserted to break rock, came up with 2' wet.

Auger cuttings @ 26' bgs: sandy silt with clay brown, moist, hard

Rig is running into large rocks

WL - 31.2 feet bto auger casing ≈3.5 auger stickup

@1830 = 27.7' bgs, set screen @ 23 - 33' bgs

Drilled down to 29, water at 28' bgs

1' of water @ 2100

12.5 hrs

Location SL1 Date 8/13/14

Project / Client Ne Cape 2014

0700 Health and Safety - fatigue

Environmental Meeting - Eric to GPS site 7 debris removal locations. Need to check on driller scope for well abandonment

WL= 33.5 - 5.9 = 27.6 TD = 30

31.5 - 34.6 3.1 feet of water prior to auger removal. Macrocore casing removed

Trenton cut notches in sono tubes downhill side for drainage per QAR request

First boring TD @ 25' on 8/11 - dry. PVC removed, end cap pinched at + PVC used as frame for bentonite chips.

Look at well construction diagram for 3 wells to be abandoned

Enviro connex organization

Site 8 surface water shipment COC# 081314-1

End 1730

Location SL1 Date 8/14/14

Project / Client Ne Cape 2014

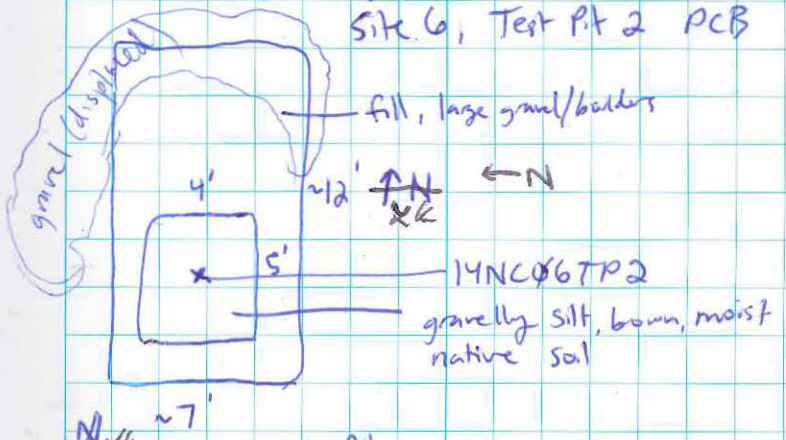
0700 Health and Safety - NIOSH reports

Environmental Meeting - NALEMP PCB hit:

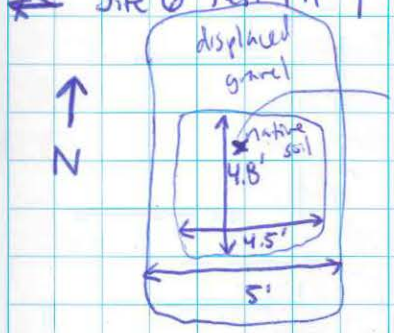
1.5 yard bag to be excavated from PCB location @ fish camp area 12NV SL 28

Site 10 - awaiting results from TA tacoma

Site 6, Test Pit 2 PCB



Site 6 Test Pit 1



Location SL1 Date 8/14/14

Project / Client Ne Cape 2014

GeoTek - drillers break down rig, prepare for shipment.

Attempt ~~abandonment~~ development @ 14MW01 w/

PVC surge block and typhoon pump

TD = 21.93' DTW = 20.65' BTOC

Pumped dry @ 30s 21.92' BTOC

1 min 21.78

2 min 21.81

5 min 21.61

10 min 21.35

20 min 20.74

Surge block attached to PVC pipe, broke off at top of well + was recovered. Spoke with Russell James on phone, agreed foot valve + HDPE tubing would work better. Ordered from TTT GeoTek off site.

1730

10 hours

Location SL1 Date 8/15/14

Project / Client Ne Cape

0770 Health and Safety - vehicle safety

Environmental Meeting

MW03-3 - PVC jacked up ~2", unable to close

DTW 13.75' TD: 19.50' BTOC

20' TD

22MW-3 - PVC jacked up 2", unable to close

TD 36.88' BTOC 33.71' to water

33 TD

18MW-1 - bentonite leaking into casing, cap doesn't close

25.57' TD 20.92 DTW' BTOC

Evaluate well status for wells to be abandoned. Aaron Shewman advises to wait until Monday to perform abandonment for buy-in from town.

Heavy fog, no plane

Bottle inventory for remaining water samples

Generator (90kW) down, backup (60kW) in use

1730

Location SLI Date 8/16/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting – NIOSH incident report

Environmental Meeting –

Heavy fog

Site 3 (NALEMP) 1 12NV..SL 28

one PCB hit on E side of fishcamp road

(bill to different job # per Russell James)

One 9 yard bag removed, samples 1-14 collected (BSW, 4 floor, 2 DUPS)

See Eric Barnhill notes

Backup (60kW) generator overheated

Begin MI Sample grid at bag staging area

Lab results: Site 10 PAH hits

Buy in from Chuck + Aaron to perform MOC surface water "post excavation" sampling tomorrow

Heavy fog no plane

1720

Location SLI Date 8/17/14

Project / Client Ne Cape 2014

0700 Health and Safety – Lifting Technique

Environmental – begin MI sampling,

MOC surface water, purging materials arrive today

14NC08SWA01 MS/MSD VOAs not shipped will be sent out with final MOC surface water round + trips blanks.

~~SH~~ MOC surface water sampling (backfilling completed 8/)

14NCMOCSW09 1100 @MOCSW01

10 1130 (DUPLICATE)

Temp 10.93 °C sp. cond 0.132 DO 5.01 mg/L

pH 6.00 ORP 154.0 turbidity

14NCMOCSW11 1140 @MOCSW02

Temp sp. cond DO

pH ORP Turbidity

14NCMOCSW12 1150 @MOCSW03

Temp sp. cond. DO

pH ORP Turbidity

Location SL1 Date 8/17/14

Project / Client Ne Cape 2014

~~14NCMOCSW12 → MS/MSD~~

Samples discarded - Aaron Shewman requests regrading to create culvert / drainage area

2. casa aircraft flights arrive, transport Jeb Adkins, Bruce Schnaver + GeoTek equipment out

→ well development $\boxed{14MW02}$
water a foot valve + surge block 10min (5min/5feet screen) min
Calibrate YSI #2, turbidimeter #2
good recharge - 12 gallons purged
pH and sp. conductivity stabilized, turbidity still high (~200) NTU
Asked
Aaron Shewman if he felt well required further development - no further needed.

End 1830
11 hours

Location SL1 Date 8/18/14

Project / Client Ne Cape 2014

0700 Health and Safety - site visitors / children
Environmental Meeting -
Timesheet submitted
COC # 081814-1 : site 8 surface water
sample 14NC08SWA01 (MS/MSD) 9 VOAs
for GRO/BTEX not shipped w/ COC #081314-1
Sent out on Bering Air

Security Aviation flight cancelled due to fog
Lab shutdown: Marty Hannah will arrive
Request Marty bring additional GRO/BTEX water trip blanks, as micron filters, low volume DRO bottles, PAH;

Aaron Shewman - 88-3 will not be decommissioned + will need to be developed and sampled. Wells 26MW3 and 17MW1 will be decommissioned.

Well development: YSI #1 and Turbidimeter #2 calibrated

→ $\boxed{14MW01}$ Development
DTW: 16.05' BTOC TD: 21.92' BTOC

Location: SLI Date: 8/18/14

Project / Client: Ne Cye 2014

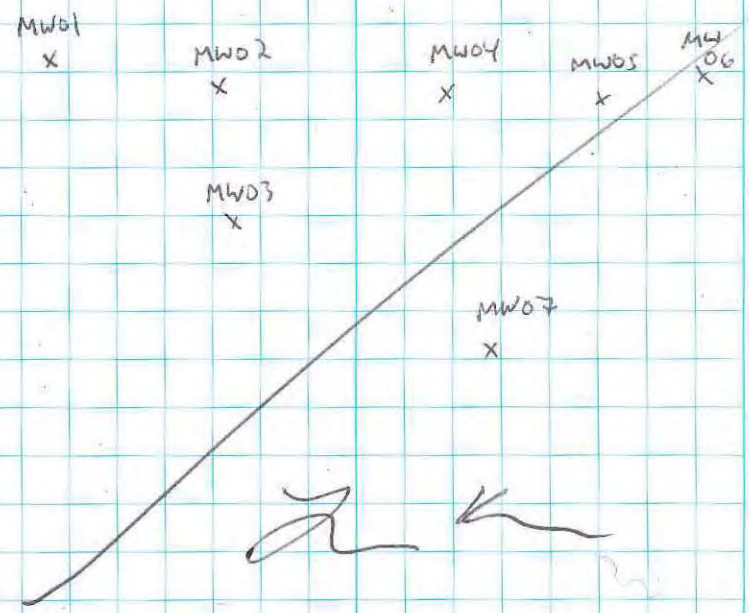
1115 Begin purge/surge w/ waterra foot valve + 2" surge block - valve blocked w/ PVC chunk
continued to surge for 15 min
pumped dry w/ peristaltic (~1 gallon)
added 1 gallon potable water
pumped dry with peristaltic
(this well was also surged + pumped dry by GeoTek on 8/14)
Turbidity over 1000 NTU during first purge (w/o potable water)
10 minute test performed 8/14

1300 **14MW03**
DTW: 12.94' BTOC TD: 22.23' BTOC
Begin purge w/ waterra foot valve + 2" surge block - ~~valve blocked w~~ slight fuel odor 20 min
~1.5 gallons generated w/ waterra system
purged w/ peristaltic - dry
1.5 gallons potable water added and pumped dry again
Turbidity 1000+ NTU
10 minute recharge test @ 20.84' after 15 min

Location: Date: 8/18/14

Project / Client:

→ **14MW07** DTW: 27.23' BTOC
TD: 32.95' BTOC
~1 gallon purged w/ waterra foot valve + 2" surge block for 15 min
peristaltic pump, then submersible monsoon pump used to pump well dry
↗ 22V



Location SL1 Date 8/19/14

Project / Client Ne Cape 2014

0700 Health and Safety - seatbelts
Environmental Meeting -

Follow up email COC# 081814-1 to Test America
Calibrate YSI #1, turbidimeter #2
Set up for well development @ MW BB-3
good recharge well
<50 NTU, pH + sp. cond stable
TD = 19.49, DTW = 13.95 no fuel odor

14MW06

Set up, break for lunch
Security aviation flight: Marty Hannah,
Jeremy Crane in, Aaron Sherman out
TD = 14.61 DTW = 5.60' BTOC
pH and conductivity stable, 22 gallons purged,
good recharge, turbidity @ 158 NTU
Strong fuel odor, sheen, grey + silty

14MW05

Surge w/ Waterra + 2" surge block for 20 min
<1 gal recovered, switch to peristaltic pump
pump dry, 10 min recovery test

Location SL1 Date 8/19/14

Project / Client Ne Cape 2014

14MW04 DTW 4.11' BTOC TD: 14.75' BTOC
Waterra + 2" surge block 20 minutes
(4 gallons removed, then purge additional
19 gallons) Turbidity = 382 NTUs
Strong fuel odor, some sheen
1750 End development

Location SCI Date 8/20/14

Project / Client Ne Cape 2014

0700 Health and Safety - PPE, slow work
Environmental Meeting - 2 wells to be abandoned

Wells: 17MW1, 88-1, 20MW1, MW10-1, 88-10
22MW2, 26MW1, 88-3
14MW01 - 14MW07

BTEX, GRO, Methane (VOA HCl)
DRO/RRO 1L Amber HCl
PAH, PCB 1L Amber unpres.
Total Metals, Dissolved Metals poly HNO_3
MNA poly

Calibrate YSI #2, turbidimeter #2
get bottles + field forms

14NCMOCGW01 1150 MS/MSD @ 26MW1
good recharge, no drawdown, clear, no odor
DO sensor malfunctioning - DO ~ 100% 12 gallons
Abandon MW: 18MW1 (17MW1?)
Knock out end cap, fill bentonite chips to top of water, remove surface monument, sling out casing w/ excavator - all casing + screen removed, filled w/ bentonite chips (1 bag)

Location SCI Date 8/20/14

Project / Client Ne Cape 2014

Abandon 22MW3 ~~(26MW3)~~
lathe says 22MW3 - break end cap w/ steel rod on string, fill screen interval w/ bentonite, remove monument, sling out ~25' of blank PVC removed (no screen) bentonite to top - 1 bag

14NCMOCGW02 1530 22MW2
good recharge, no drawdown purged 8 gallons

14NCMOCGW03 1630 17MW1
good recharge, no drawdown, purged 8.5 gallons took out pump twice - @ 17V, flow rate steadily dropped. Found PVC wedged in impellor from casing cuttings. Cleared out pvc w/ aluminum pop top, decontaminated pump and continued purging.

Location SLI Date 8/21/14

Project / Client Ne Cape 2014

0700 Health and Safety Meeting:
Environmental Meeting: Dig at spot @ site 3
Results in for site 10 - 2 dirty spots
Set up on 20MW1

→ 14NCMOCGW04 1100 20MW1
good recharge, 10 gallons purged
no fuel odor

→ 14NCMOCGW05 1200 88MW10
good recharge, 4 gallons purged, no fuel odor

→ 14NCMOCGW06 1530 14MW01
slow recharge, turbidity high (124 NTU)
other parameters stable, 7 gallons purged
no fuel odor Used low volume DRO, PCB, PAH

→ 14NCMOCGW07 1730 14MW07
slow recharge (ran dry at lowest pump setting)
allowed to recover + sampled - 1000+ NTU
no fuel odor. Used low volume DRO
PAH and PCB bottles.
Sample management

Location SLI Date 8/22/14

Project / Client Ne Cape 2014

0700 Health and Safety: Last Tasks
Environmental Meeting: surveyors home today
2 dig at spots at site 10, M1 grid sampling
groundwater sampling
→ set up on MW88-1 (new surface completion)
14NCMOCGW08 0930
14NCMOCGW09 0940 DUPLICATE
good recharge - purge for 1 hour, turbidity
@ 25 NTU

→ set up on MW88-3 developed 8/19

frozen bottles in fridge - 5 unpreserved 1L amber
from 14NCMOCGW01 (MS/MSD)
1 1L HCl amber ~~14NCMOCGW02~~
14NCMOCGW03
1 1L HCl amber 14NCMOCGW01
1 1L unpreserved amber MNCMOCGW03
More samples to other fridge

14NCMOCGW10

Location SL1 Date 8/28/14

Project / Client Ne Cape 2014

set up on MW 14MW02
good recharge, fuel odor, silty, grey

14NCMOCGW11
14NCMOCGW12 (DUP)

Sample Management
End 1830
11 hours

Location SL1 Date 8/23/14

Project / Client Ne Cape 2014

0700 Health and Safety - start safe, stay safe
Environmental Meeting

MOC groundwater sampling
typhoon pump, water level and YSI
from TTT - Eric will sample

14NCMOCGW 13 1050 14MW03
very low recharge - purged dry, allowed
to recharge. Sample volume collected
between 1030 and 1150. 2.5 gallons
purged. silty, brown with

14NCMOCGW15 1500 14MW05
slow recharge, steady @ 200 ml/min.
purged 10 gallons (1 hour), turbidity
still high (173 NTU)
strong fuel odor with sheen

14NCMOCGW17 1715 MW 10-1
slow ~~good~~ recharge, no fuel odor, no sheen
New surface completion
low volume PAH, PCBs collected
glycol, VOC, DRO/RRO, GRO, tot metals, diss. met, MNA

Location SL1 Date 8/23/14

Project / Client Ne Cape 2014

Eric Barnhill samples:

14NCMOCGW14 14MW04

good recharge

14NCMOCGW16 14MW06

good recharge, no fuel odor

End 1830

11 hours

Sample management

Location SL1 Date 8/24/14

Project / Client Ne Cape 2014

0700 Health and Safety - wrapping up

Environmental Meeting -

COC# 082414-1

16 coolers: MOC groundwater

15 primary samples, 2 duplicates

MOC surface water location MOCSW01

14NCMOCSW09 1520

14NCMOCSW10 1530 (DUP)

13.31°C 6.35 pH

0.159 mS/cm² 56.6 ORP

4.10 mg/L DO brown, silty pond w/no outflow

no sheen, some odor

14NCMOCSW11 1540 MOCSW02

11.67°C 6.70 pH 2.29 mg/L DO

0.182 mS/cm² -106.6 ORP

biogenic sheen, iron floc w/ marsh grasses

no fuel odor

14NCMOCSW12 1550 MOCSW03

17.15°C 5.67 pH

0.095 mS/cm² 83.4 ORP

~~12.23~~ 9.13 DO no odor, no sheen, marsh grass + moss

Location _____ Date 8/25/14

Project / Client NE Cape

0700 Health and Safety Meeting

Measure water levels @ MOC wells
with Eric Barnhill + Russel James

Bering Air → Nome

NOME → ANC

Location _____ Date _____

Project / Client _____

Eric Barnhill
Bristol Environmental
Northeast Cape 2014
6-10-2014 → 8-10-14

Rite in the Rain®
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FIELD
№ 351

INCH

Rite in the Rain®
ALL-WEATHER WRITING PAPER

Name Eric Barnhill
Bristol Environmental
Address 11 West 16th Ave
Anchorage AK 99501
Phone 907 563 0013

Project Northeast Cape HTRW
Job# 34140007

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook.
Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation

CONTENTS

PAGE	REFERENCE	DATE

June 9, 2014

0800 - To Security air to prepare for flight to NE Cape for site 21 borehole sampling (Arsenic)

0900 - weather is bad up north, on weather hold

1300
Flight called off - will try again on Tuesday June 10

June 10, 2014
Cool, mostly cloudy -

Security Aviation 0800 hours

Takeoff at 0900 hours, approximately

Arrive at NE Cape at 1100 hours

Crew starting vehicles, getting equipment running.

To site 21 with Russell James and USACE QAR, Jeremy Craner. Setting out lath to notate placement of borings

Camp setup -

day end 2000 hours

June 11, 2014
mostly cloudy 0700-1830
Safety meeting:
- Slips trips and falls
- Excavator - eye contact with operator, stay clear of tracks and boom

- Sample gear gather/setup

Preparing to sample at Site 21

June 12 0700-1750

June 13 0700-1830

July 22, 2014

Anchorage airport ≈ 0500 hours

Arrive in Nome, AK ≈ 0830 hours

Waiting for charter at Bering Air

Bering air charter ≈ 1300 hours

Arrive NE Cape ≈ 1345 hours

12

July 23, 2014

- Cool, breezy, raining

Safety:
Chill factor - wind and rain protection
Stay Aware
Hard hats, Safety glasses wear
PPE!

- Finding supplies
  - ice
  - YSI etc
  - Jars / bottles

Preparatory Meeting 0900

MOC - Pre - Mid - After dug waters events
QA/QC per event

- Stockpile area sampling

100 x 200 - liner size [Area of stockpile orig]

Sampling MOC stockpile area
All samples collected for DRO Analysis

PSP001	1559	
PSP002	1600	
PSP003	1601	
PSP004	1602	
PSP005	1603	
PSP006	1604	
PSP007	1604	
PSP008	1605	
PSP009	1606	
PSP010 (dup 082)	1608	
PSP011	1611	
PSP012	1611	
PSP013	1612	
PSP014	1612	
PSP015	1613	
PSP016	1614	
PSP017	1614	
PSP018	1615	
PSP019	1616	
PSP020 (dup 083)	1618	
PSP021	1619	MS/MSD

PSP 022		1625	
PSP 023		1627	
PSP 024		1628	
PSP 025		1629	
PSP 026		1630	
PSP 027		1631	
PSP 028		1632	
PSP 029		1632	
PSP 030	(dup 084)	1634	
PSP 031		1635	
PSP 032		1637	
PSP 033		1638	
PSP 034		1639	
PSP 035		1640	
PSP 036		1641	
PSP 037		1641	
PSP 038		1642	
PSP 039		1642	
PSP 040	(dup 085)	1644	
PSP 041		1646	MS/MSD
PSP 042		1647	
PSP 043		1648	
PSP 044		1648	
PSP 045		1649	

PSP 046		1650	
PSP 047		1650	
PSP 048		1651	
PSP 049		1654	
PSP 050	(dup 086)	1656	
PSP 051		1657	
PSP 052		1658	
PSP 053		1700	LK
PSP 054		1700	
PSP 055		1658	RJ
PSP 056		1701	
PSP 057		1659	RJ
PSP 058		1700	
PSP 059		1705	
PSP 060	(dup 087)	1703	
PSP 061		1707	
PSP 062		1701	RJ
PSP 063		1708	MS/MSD
PSP 064		1704	
PSP 065		1709	
PSP 066		1707	
PSP 067		1704	RJ
PSP 068		1705	RJ
PSP 069		1707	

PSP 070 (dup 088)		1706		
PSP 071		1708	RJ	MS/MSD
PSP 072		1707		
PSP 073		1710		
PSP 074		1710		
PSP 075 (dup 089)		1713		
PSP 076		1711		
PSP 077		1710	RJ	
PSP 078		1712		
PSP 079		1712	RJ	
PSP 080 (dup 090)		1715		
PSP 081		1712		MS/MSD
PSP 082	(dup of 010)	1713		
PSP 083	(dup of 020)	1714		
PSP 084	(dup of 030)	1715		
PSP 085	(dup of 040)	1716		
PSP 086	(dup of 050)	1717		
PSP 087	(dup of 060)	1718		
PSP 088	(dup of 070)	1719		
PSP 089	(dup of 075)	1720		
PSP 090	(dup 080)	1721		

10.250

7-24-14 Calm, cool, dry

Safety:

Vehicle checks
Seatbelts
Working together with line

Sample Management
- MOC Stockpile Laydown area samples

Turned Samples in to lab
- COC 72414-1 → 72414-8
Coolers (2): 72414-01 + 02

Conex, Environmental Conex cleanout.

Preparing Sampling stuff for Waste Sampling of MOC Soil
super Sacks

July 24, 2014

MOC Bulk Bag Sampling

MOC 442 A
MOC 442 B
MOC 442 C
MOC 442 D

10.5

July 25, 2014 mostly cloudy, calm

Safety Meeting
- Hazard Avoidance tips

Environmental Meeting
- Continue digging at MOC plume "C" bagging and Sampling

@ MOC plume "C" and Pad 98
~ 3 feet of water in portion of excavation removed on 7/25/2014

No strong fuel odor at "dirty" interval

Prep pha

July 26, 2014 Calm, dry, cool

Safety -
Close quarters - way to stay well!
- clean hands
- see medic
- Cough/Sneeze in elbow crook or handkerchief/tissue

Environmental
- bagging
- Site - MOC E plume + C plume

Pad 9B

July 27, 2014 Partly cloudy/sunny Light wind, dry, cool

Safety
- Communication
- Open excavations

Environmental
- Site 21 mop done
- Site 10 prep meeting @ 8
- Samples run from plume C waiting to be analyzed

Prep Phase Site 10 & Site 32

- 5 locations @ 10 re-collect
- 3 locations @ 3 re-collect
- 2 day Turn Around
- between 6" → 12" in depth @ Site 10

DRO/RRO in both sites stay at onsite lab

Sample NE 10SS104
re-sample:
14NC10SS001 @ 1415

Sample 94NE10SS127
re-sample:
14NC10SS002 @1430

Sample 94NE10SS126
re sample:

Duplicates

14NC10 SS003 @1435

14NC10SS004 @1440

Sample 94NE10SS125
re-sample:
14NC10SS005 @1450
MS/MSD

Sample 96NE28SS107
resample
14NC10SS006 @1515

SITE 32

Sample 03NEC32SS07
re sample
14NC32SS001 @1545 MS/MSD

Sample 01NE32SS102 [DRO/RRO]
re sample
14NC32SS002 @1550
14NC32SS003 @1550 dup

fuel odor observed

01NE32SS122

resample: @1616
14NC32SS004

DRO/RRO

10.5

~~Septe~~ July 28, 2014

July 29, 2014 clear, warm, low patchy fog

Safety
Activity Hazard Analyses

Environmental
- dirty stock pile samples
- landing craft - Thursday; one load
-

Sample management
site 10 + 32 samples into the lab

MOC - Pad 98 - Bulk Waste samples

10.5

July 30, 2014 mostly cloudy, calm

Safety

- Stay hydrated, be prepared for hot and cool
- Emergency!
  - Scenarios

Environmental
possible hot spots at 10, 32, MOC plumes.

Pad 98

10.5

July 31, 2014

Safety
Barge loading / unloading

Environmental Meeting

Pad 98

Bulk waste samples to lab tomorrow

Pad 98

Barge loading - bulk bag manifests

Safety Prep

10.5

August 1, 2014

Partly Cloudy
temperate

Safety

Environmental
Continue Pad 98
Continue MOL Excavations

Waste samples to lab
Pad 98

Bulk waste Sampling

August 2, 2014 Fog, Calm, warm

~~Environmental~~ EP Safety
- Excavations
- fog

Environmental meeting
- more bagging at pad 98
- may be digging at site 10 and/or 32
-

August 3, 2014 Partly Cloudy, dry
Calm "warm"

Safety
minor injuries
why accidents happen

Environmental

Site 10 dig
1) tundra hot spot - 2' deep, 10x10x10
2) 3 (one on slope) x 2-3' deep
triangle

Pad 98 BULK Waste
Lunch
Site 10 bagging

1) 10-001A
10-001B
10-001C
10-001D
10-001E
10-001F
10-001G

August 4, 2014 Fog

Safety - PADS; Cold stress, Heat stress

Environmental

Concentrating on Site 10 right off

Prep Phase Meeting: Drilling / Well installation

2" wells
10' well screen
flush mount completed
Sound tube to prevent frost jacking
locks (Combo = 0911 or 911)

Site 32

Course material
take to pad 98 for screening ??
Truck loads or bucket counts
Load frame - to get weights

3' - 4' deep

10 - 002 A
10 - 002 B
10 - 002 C
10 - 002 D
10 - 002 E
10 - 002 F

Site 10 Southern/larger Excavation

≈ 25' x 35' → 875 square feet

2 for first 250 + 1 per 250 thereafter or portion thereof

5 samples for floor
+
6 Sidewall samples

14NC 10 SS	008	Dupes	1105
14NC 10 SS	009		1110
14NC 10 SS	010		1122
14NC 10SS	011		1127
14NC 10SS	012		1131
14NC 10SS	013		1135
14NC 10SS	014	dup	1135
14NC 10SS	015		1145
14NC 10SS	016		1258
14NC 10SS	017		1302
14NC 10SS	018		1308
14NC 10SS	019		1315
14NC 10SS	020		1321
14NC 10SS	021		MS/MSD 1340
14NC 10SS	022		1402
14NC 10SS	023		1355

August 5, 2014 Fog, cool, dry

Safety

Safety overview

Environmental

Drilling

14NC21SS041-1 @ 0905 (auger)
grey silt

14NC21SS041-2 @ 0919
grey silt, dark organic soil mix

14NC21SS041-3 @ 0920
dark organic soil

14NC21SS042-1 @ 0935 (auger)
grey silty / sandy

14NC21SS042-2 @ 0945
grey silt, Partially frozen

14NC21SS042-3 @ 0947
Dark brown organic, thawed

14NC21SS042-1 @ 0956

High organics (root mass) dark brown

14NC21SS043-2 @ 1000
grey/brown mineral soil

14NC21SS043-3 @ 1007
~~peet mixed with mineral soil~~ ES
Same as 43-2

14 NC 21 SS 044-1 @ 1012
peet mixed with mineral soil (≈20%

14 NC 21 044-2 @ 1017
Brownish Grey Silty soil

14NC 21 SS044-3 @ 1023
Brownish Grey Silty soil

14NC 21SS045-1 @ 1028
Peet mixed with silt

14NC21SS045-1.5 @ 1033
Duplicate of 45-1

14NC21SS045-2 @ 1040

light brown silty soil; minor sand

14NC21SS045-3 @ 1046
Grey Sandy Silt

14NC21SS040-1 @ 1100
peet

14NC21SS046-2 @ 1059

Silty soil ice crystals

14NC21SS046-3 @ 1050

peet

14NC21SS047-1 @1116

~~Grey Silt~~ dark organic / Peat

14NC21SS047-2 @1115
Grey Silt

14NC21SS047-3 @1113
Grey Silt

duplicates
14NC21SS048-1 @ 1125
14NC21SS048-1.5 @ 1130

Silty Soil mixed with root mass

14NC21SS048-2 MS/MSD @ 1132
Peat
14NC21SS048-3 @ 1138

14NC21SS049-1 @1250
14NC21SS049-1.5 @1255
Sandy brown Silty Soil

14NC21SS049-2 @1305
MS/MSD
Sandy brown Silty Soil

14NC21SS049-3 @1310

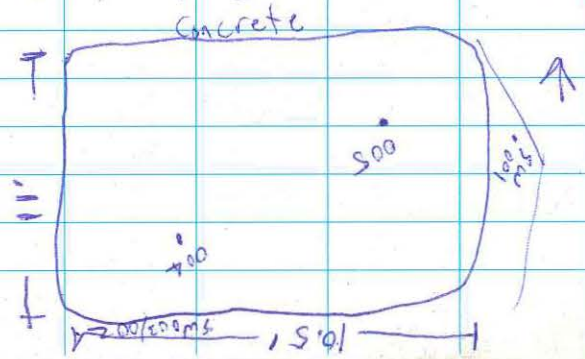
August 6, 2014
Safety: Hearing Protection.
Environmental

Drilling Commencing

Site 32- Bagging & Sampling

Site 32
Bulk Bags
Bags
32-001
32-002
32-003
32-004
32-005

Site 32 Sampling: Excavation



	14NC32SS001	@ 1024	
Duplicates	14NC32SS002	@ 1025	
	14NC32SS003	@ 1030	
	14NC32SS004	@ 1031	MS/MSD
	14NC32SS005	@ 1033	

Fuel odor in Excavation

August 7, 2014

Safety

Wind - Precautions, PPE, Housekeeping

Environmental

Site 21 - Prep Phase meeting

☆

TCLP Arsenic - Waste Characterization samples

☆

Confirmation Samples - Total Arsenic

Water Samples

- Arsenic - Total and Dissolved
- turbidity

Surface Water Sample ID: 14NC21SW001 (etc etc)

Soil Sample name ID: 14NC21SS001 (etc, etc)

Turbidimeter Calibration

14NC21SW 001/002 Duplicates

@ 0855 002 @ 0858

NTU = 2.65

No Sheen

14NC21SW ØØ3

@ 0914

9.21 NTU

No sheen

SITE 21

BAG - 21 - ØØ1A

Samples for Total Arsenic

14NC21SS001 MS/MSD

@ 1455

inundated with water, sample between 4' and 5' deep

14NC21SS002/003 (duplicates

002 @ 1505

003 @ 1510

dy

rain, low clouds

August 8, 2014

Safety
Heavy Equipment Safety

Environmental

Site 10
Site 28 Pad
Site 32
Drillers
Surveyor

Site 10 Ex

10-002G
10-003A
10-003B
10-003C
10-003D
10-003E
10-003F
10-004A
10-004B
C

~~MOC~~ 10-004D
10-004E
10-004F
10-004G
10-005A

Some apparently stained soil found in sidewall. Additional soil removed until looked better, Prior to sampling

14NC 10550 24 @1425
025 @1430
026 duplicates 1433
027 1436
028 1514
029 1520
030 1530
* 033 1543
MS/MSD 031 1600
032 1612

North Excavation

South Excavation

TB081114-01

10.75

August 9, 2014

Safety
Be Prepared

Environmental

- Site 32
- Floor sample from "E" to retrieve and then ready for backfill
- Continued miscellaneous debris pickup (Tundra, Ponds)
- Site 32

Site 32 - Excavating

32-006
32-007
Samples repeated; No sample 006-009 collected
in case sample 1-5 collected 8/6 need to be renamed
14NC32SS010 @ 0850
14NC32SS011 @ 0855

Site 28, laying out grid to MI Sample

DU

grid = Cells are 10' x 29'; DU in 58' wide by 170' long

Random number generator

First	9	27
Second	3	14
Third	1	26
	↑ up	↑ over

Volatile sample 1 @ 1455
Jar - 180.8 grams
methanol - 68.9 grams
309 grams

Volatile sample 2 @ 1510
Jar 183.6 grams
methanol 72.8 grams

322.2 grams

Volatile Sample 3 @ 1535

Jar - 180.6 grams

methanol 68.6 grams

325 grams

Sampled in triplicate

14NC28MI001

14NC28MI002

14NC28MI003

August 10, 2014 Calm, Partly cloudy

Safety

Site 21

Safety first

PAH, PCB samples to Anchorage from Site 10

21-001 B 21-001 G 21-002 E

21-001 C 21-002 A 21-002 F

21-001 D 21-002 B Stopped at F

21-001 E 21-002 C 14NC 21-001 BW @ 1200

21-001 F 21-002 D 14NC 21-002 BW @ 1500

Samples

14NC21SS004

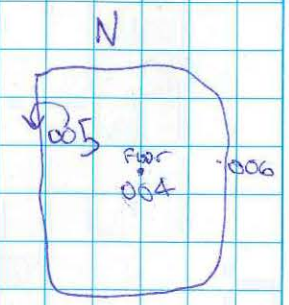
@0930 Floor

14NC21SS005

@0932 sidewall

14NC21SS006

@0935 sidewall



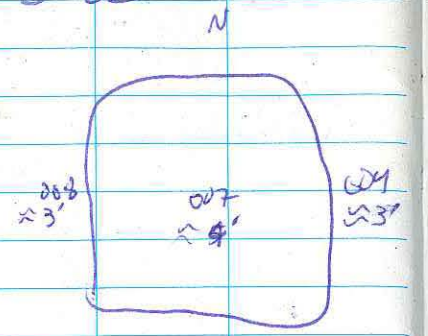
August 10 (continued)

~~09NC007SB03~~ EB

14NC21SS007
@1025

14NC21SS008
@1027

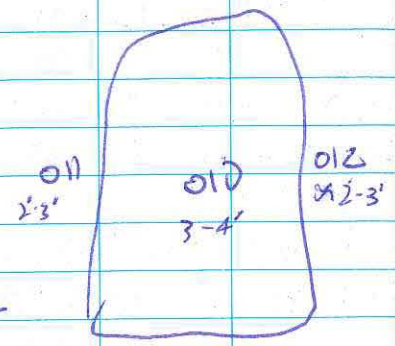
14NC21SS009
@1030



14NC21SS010
@1109

14NC21SS011
@1110

14NC21SS012
@1114

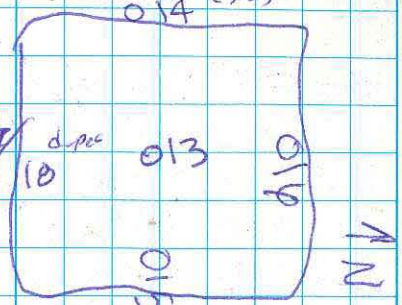


old AF ~~05~~ 07 EB
14NC21SS013 @ 1405

14NC21SS014
@1409

14NC21SS015
@ 1412

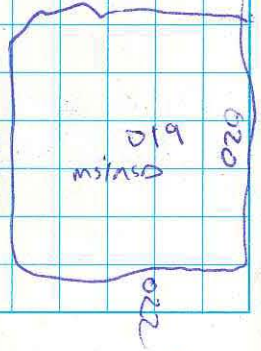
14NC21SS016
@1418



14NC21SS017/018
duplicates @ 1440/1445

old AF 006

14NC21SS019 @1522 ms/msd
14NC21SS020 @ 1525
14NC21SS021 @ 1526
14NC21SS022 @ 1528 ms/msd
2 dupes 14NC21SS023 @ 1535
14NC21SS024 @ 1540



Eric Barnhill

NE Cape 2014

Job # 34140087

8-10-14 →

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ALL-WEATHER

FIELD

№ 351

INCH

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ALL-WEATHER WRITING PAPER

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Name Eric Barnhill

2

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Project NE Cape HTRW
3A140087

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CONTENTS

PAGE	REFERENCE	DATE

August 10 <continued>

12NC21SW004 surface water location moved ≈ 20' East due to water changing course

↖ Duplicates ↗

12NC21SW005

004 @ 1500

005 @ 1505

Turbidity 04/05 = 12.8 NTU

12NC21SW006

006 @ 1515

Turbidity 06 = 9.16 NTU

Bulk waste samples for Soil Arsenic

14NC21BW001 @ 1200

14NC21BW002 @ 1500

Both for TCLP Arsenic

August 11, 2014

Safety

Safety Quiz

Environmental

Samples to go out - Site 10 and Arsenic

Sample Management

- Site 10 - metals, Glycol, GRO/VOC
- Site 21 Soil and Water

Site 8

Surface water samples - Samples in L. Kleppins boon along with YSI readings, times, observations

10.75

Rite in the Rain

August 12, 2014 Cloudy, warm, Calm Slight breeze

Safety

New medic

Plan - be aware of how your actions affect others

Environmental

- 013 PCE
- 018 Chromium

} site 10 samples

PCE - yes

Chromium - maybe (QAR looking into)

MOC Post Stockpile Samples

14NCPOSP	46-2	0930	ms/msd
	047-2	0931	
	048-2	0932	
	049-2	0933	
	050-2/082	0934 / 1006	
	051	0935	
	052	0936	
	053	0937	
	054	0938	
	055/083	0939 / 1007	
	056	0940	

14NCPOSP → ↓

057	0941	
058	0942	ms/msd
059	0943	
060/084	0944/1008	
061	0945	
062	0946	
063	0947	
064	0948	
065/085	0949 / 1009	
066	0950	
067	0951	
068	0952	
069	0953	
070/086	0954 / 1010	(70 → ms/msd)
071	0955	
072	0956	
073	0957	
074	0958	
075/087	0959 / 1011	
076	1000	
077/088	1001 / 1012	
078	1002	
079	1003	
080/089	1004 / 1013	

Rite in the Rain

081/090 1005 / ~~009~~ 1014

Pad 98 stockpile sampling

Stockpile was shaped into an approximate square with the dimensions of 11 yds (Length) x 13 yds (width) x 1.33 yds (height) for a total of (~~length~~ x width x height) ≈ 190 cubic yards

4 primary samples and one duplicate will be collected. One from each corner of the stockpile.

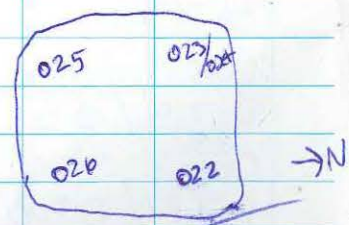
14NCSP022 @1417

14NCSP023 @1418
14NCSP024 @1420

14NCSP025 @1424

14NCSP026 @1426

Big Chief Farm



August 13, 2014 - Fog,

Safety
Combatting fatigue / mid-day slump

Environmental
wire across the road from site seven, partway down to site six - GPS locate

De-commission wells ??

GPS ing

Rite in the Rain

August 14, 2014

Safety

when safety goes wrong -

Environmental

- NALEMP Site 3 PCB dig by where Cargo Beach Road hits the beach

- Site 21 ongoing discussions

- Site 10

  * PCE we will dig ; Not chromium

    ☆ sample for VOCs only

- Site 7 + 24 - review by QAR

Site 28 Road

46	47	49		49	50/82			
55/83	54	53		52	51			
56	57	58		59	60/84			
65	64	63/85	72	62	61			
66	67	69	88	69	70/86			
74	67 73	73	77		71			
75/87	76	80			78			
81/90					79			

→ mountains

Western half of post stockpile samples

Rite in the Rain

August 15, 2014 cool, fog, 48° ex 48°

Safety -
Vehicles
- keep windows clean
- clean headlights
- clean tires
- low speed / safe speed
- seatbelts on

- Crew - Connex Consolidation
- Three wells to be decommissioned - 2 have decent water - QAR (Aaron S.) checking to see if we should abandon still or sample and keep whole.
- Screening attempted - hydraulic line split on Excavator (450)
- New results from R. James
- locating sample location with GPS
-

Wind 0-4
Temp 48-49
Foy

August 16, 2014 cool fog 48°

Safety
PCB - PPE
Be prepared for all types of jobs and including PCB. (Tyvek)

Environmental
10 mostly done
Site 3 (UALEMP) former
waiting on development equipment for wells

- Activities
  - Connex Consolidation
  - Rock quarry slope decreased by excavator
  - New teeth on quarry excavator
  - Metal cutt at site 32

First grid from MI developed

Bath of fuel tanks

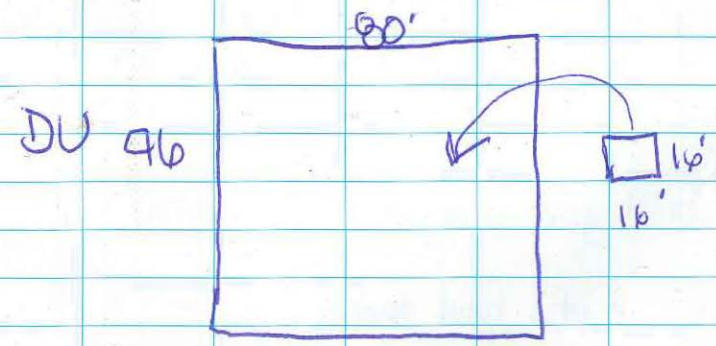
10.75

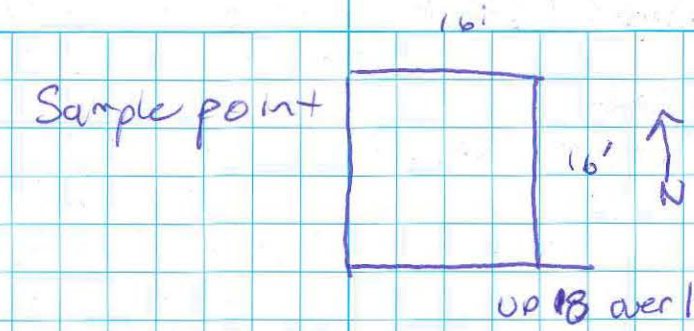
Rite in the Rain

August 17, 2014

Safety
Proper lifting

14NCMOCMI001 @ 1330
Jar weight 183.4 grams
Methanol 60.7 grams
Jar + MeOH 244.1 grams total
Jar + MeOH + Soil 306.2
8' to the North 13' to the west





Rite in the Rain

August 18

Non project personnel - Safety

Environmental

- samples out
- Site 10

Site 10

Bulk bags

10-005 B
10-005 C
10-005 D
10 005 E

Samples

14NC1055034 @ 1630
14NC1055034 @ 1634

small excavation

soil 14NC1055035 } dup @ 1642
14NC1055036 } @ 1644

14NC1055037 @ 1645
Large excavation 14NC1055038 @ 1655
14NC1055039 @ 1658 MS/MSD
11

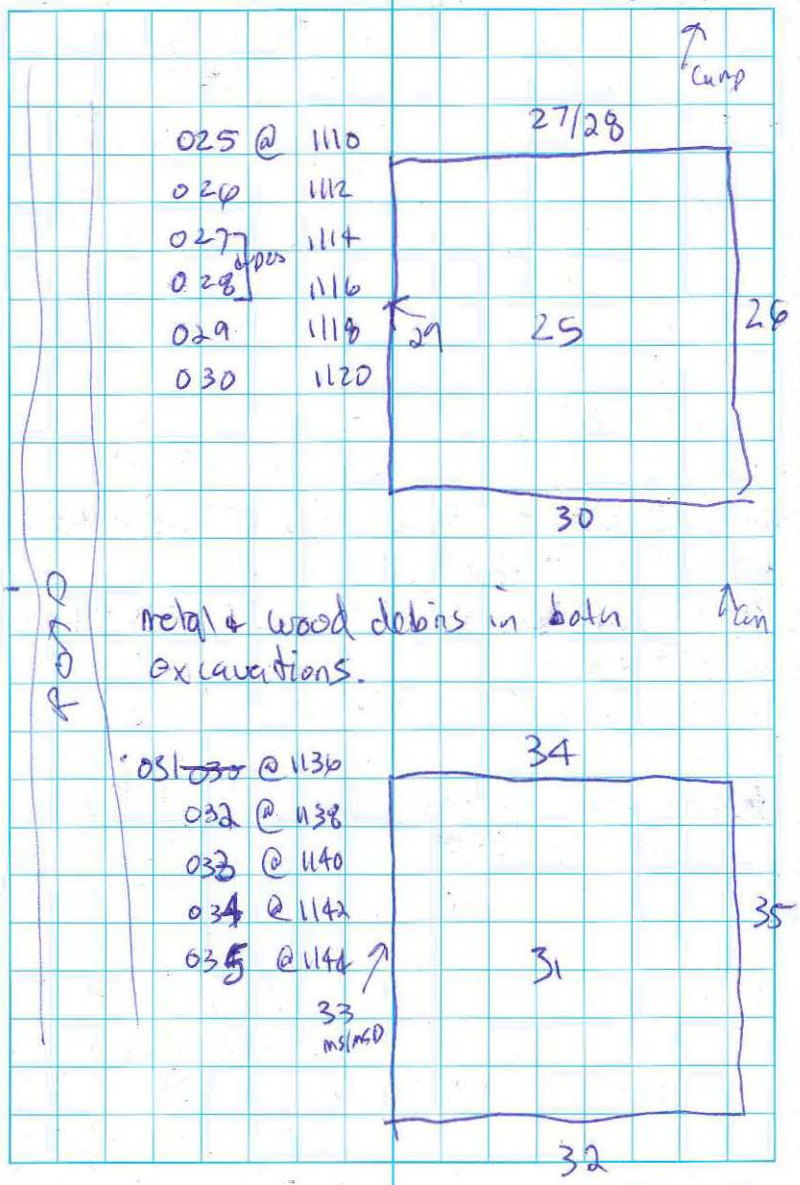
Rite in the Rain

August 19, 2014

- Safety
  - Seatbelts

Site 10
Arsenic
Excavating at Samples 03NECAFB55 and 03NECAFB13
First dig at B55 - 10x10x10x10 on 2' deep.

Bulk Bay (21-002 stopped at "F")
21-003 A
B
C
D
21BW-003 @ 1130



Rite in the Rain

August 20, 2014 calm, dry, cloudy

Safety -
Stay vigilant

Environmentals
- well abandonment
- MI sampling
- additional well development/sampling
- well by site 21 to pull / abandon

14NCMOCMI002 @1030

Jar Weight 187 g
methanol 79.5 g
combined 344.5 gram (water soil)
39 increments; 25 x 25'

sample point 18.4' over (east to west)
1 foot up (North to South)

Rite in the Rain

August 20, 2014

HACH KIT

14NCMOLGW01
Ferrous Iron : 0.02 mg/L

14NCMOLGW02
Ferrous Iron : 0.02 mg/L

14NCMOLGW03 : -- "under measuring range"

10.75

August 21, 2014

Safety

Site 10 - reding samples 35+40

11 EVS

Rite in the Rain

August 22, 2014

Safety

Environmental

Site 10 F-dig (Samples 40 + 35

Bulk bag
10-005 F
10-005 G
10-006 A
10-006 B
10-007C

14NC10SS041] dup @ 0920
042] @ 0930
043 MS/MSD @0932
044 @ 0940

14NCMOCMI003
@ 1500

183.7 Tare weight
98.6 g MeOH

48' x 36' — 48 increments

EB

11

Rite in the Rain

August 23, 2014

MOC wells groundwater Sampling

14NCMOCGW14 @ 1200

14NCMCGW16 @ 1455

14NC

11.25

August 24, 2014

Safety
- Beach : barge load/unload
- Camp - heavy equipment

Enviro
MOC - Surface water
Site 21 - Surface water

cutting off PVC with R. Janes on wells with too high casin

Site 21 Surface waters

14NC21SW007] duplicates @ 1645
14NC21SW008] NTU 32 @ 1650

14NC21SW009 MS/MSD @ 1655
NTU 13

Rite in the Rain.

8-25-14

Safety

- Buddy System

- well locks
- well IDs

Sept 30

10-008A
10-008B

14NC10SS045 @ 1000
14NC10SS046 @ 1005
[VOCs] Duplicates

14NC10SS047 @ 1015 ← MS/MSD

MI 004, 005, 006

14NCMOCMI004 @ 1500
Jar weight 200.4 g
Methanol 61.2 g
Soil + Jar + methanol 314.7
soil (53.1 g)

Rite in the Rain

14NCMOCMI005 @1530

Jar	198.1 g
methanol	60.7 g
Jar + MeOH + Soil	339.7
Soil	80.9 g

14NCMOCMI006 @1600

Jar	198.3 g
methanol	63.5 g
Jar + MeOH + Soil	~~339.7~~ 321.6
Soil	59.8

Rite in the Rain

Russell James

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ALL-WEATHER
FIELD
№ 351

2014 NE Cape

7/21/2014 – 10/8/2014
Bristol Environmental Remediation
Job 34140087

INCH

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Project Northeast Cape NTRW
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CONTENTS

PAGE	REFERENCE	DATE
2	Mobilization	7/21

7/21/2014 R. James, 34140087

Sunny 50°F, Anchorage, AK

- Objective: Mobilize to NE Cape
- Leave house for frigid North - arrive @ 8 AM - Head to Bristol Shop yard, then to Security Aviation - Depart ANC @ 0945 AM arrive NE Cape ~1200 hrs.
- Lunch @ 1200 - 1230
- Setup Room/office @ 1230
- Bering Air arrives ~ 1500 hrs.
  - Tabitha Hughes, Scott McIntosh, Arnaud (Eco-land), C. Kava, A. Kulowiyi, S. Kingeekuk, M. Kingeekuk arrive
- R. Jane, G. Mack, J. Adkins, G. Meyes, A. Dennis and J. Craner arrived on the Security Flight
- Mitannah, TA ET, Global Electrician and some of the Global setup crew (G. Rowe, S. Byess) left the site on the Security Flight
- Weather in NE Cape is cool, cloudy and breezy. Intermittent Fog.
- Camp tents all appear to be setup. Global is still putting the linens on the beds and applying the finishing touches -

- Get on VPN and copy some files from the office onto my hard drive. WP, QAPP, Contract/SOW -
- The site 28 Geotubes have been loaded into 2, open-top containers. The containers have the sediment/soil, geotubes and liner.
- Some soil is being swept off 2 of the liners and dumped into the open-tops also. The liners will be folded and put away. Any sediment/soil that fell on the work pad was dug/excavated and placed in the open-top containers - photos taken of the open-top cans and the sweep/shovel operation

R. James

Rite in the Rain

7/22/2014 R. James 3444087

NE Cape, Breezy, Cloudy

0455 Safety: Doors - Hold on to Handles, Winds are supposed to Shift.

- Buddy system - tell people where you're working/playing.
- Radios will be setup today.
- If you notice something you need, speak up - ask.
- Slower is faster.
- Personnel introductions - TA, ECO, Fairweather
- Return to office & setup printer/office
  - Email N. Peacock to copy some data to a hard drive and send to me.
- collecting the Historical sample locations that will have to be relocated by the surveyor. Sent Craner an email asking for help with the Site 10 and site 27 locations
- Scan the Health & Safety sheets to computer. Dated 7/10 - 7/22.
- Being Air Arrives ~ 1345 hrs
- Fuel Containment is completed by 1650 hrs
- Take some photos of the work pad

at site 28.

- Look up a historical sample for site 10' (94NE1055137) to give the coordinates to the survey crew
- Dinner @ 1730 hrs
- End shift ~ 1830 hrs

Rite in the Rain

7/28/2014 NE Cape HTRW 34140087

Rain, Wind, 23 mph S wind, 42°F

- 0655 Safety: Heavy Winds w/Rain; stay focused.
  - Hard hats. Eric will do the safety meetings from here on out.
- We'll have prep phase meeting this morning after oil change for generator
- Prep phase @ 0915 hrs. POL Removal
  - Discuss general job @ 1000 hrs.
    - Site 21 borings - USACE wants to see the topo lines before supplying the locations for the 9 additional borings.
    - Ask Scott to survey the Site 21 boring locations
    - Get the proposed MW locations to Scott McClintock to stake out
  - Keep the Barge informed of our dig schedule
    - GeoTek Scheduled for 8/1
- Check waste drums in Conrex
  - Mix Waste - appears to be water just below the first lower ring on drum ~ 25% full
- Boot wash waste = 1/2 full drum <10% oil on top of aqueous phase

- Double-check the locations of the site 10 staked sample locations. See if the points have elevations attached. Take check the elevations against the spots marked by Eco-LAND
- PSP Sampling - RJ - Surface Soil
  - PSP055 @ 1658 hrs
  - PSP057 @ 1659 hrs
  - PSP062 @ 1701 hrs
  - PSP067 @ 1704 hrs
  - PSP068 @ 1705 hrs
  - PSP072 @ 1707 hrs
  - PSP077 @ 1710 hrs
  - PSP079 @ 1712 hrs
- Ash WC sample collected @ 1430 hrs from bulk bag
  - Ash from burn pit was bagged and sampled for TCLP RCRA 8 metals, TCLP VOCs, TCLP SVOC, and PCBs

Rite in the Rain

7/24/2014 NE Cape HTRW 34140087
R. James, 42°F, Cool North winds 7 mph
0655 Safety - Seat Belts, vehicle walk-arounds

RJ

Objectives: overburden liner, Pre excavations, Review site 10 historical sample locations
- located the 2 other points at site 10 that the USACE wants to investigate. The sample IDs are - 96NE10SS104 and 96NE28SS107
- Overburden Removal/Excavation is beginning in the C-Plume ~1300 hrs. - Overburden liner was set into place, the sides were bermed.
- Collect waste characterization sample from PCB Boot Wash 14NCBOOTWASH2 @ 1500
  - Water sample (waste) analyzing for PCBs 8082
- DRO soil transferred to Pad 9.
Bagging operations begin ~1600

7/25/2014 NE Cape HTRW 34140087
R. James, 42°F, Light Rain, High Overcast
0655 Safety: Hazard Awareness PPE, Seatbelts, If you see something Say something
Objectives: Ship MOC SW samples and WC samples to TestAmerica. Continue bagging operations
- Bagging Continued - Excavations continue at the C-Plume
  - C-Plume completed based on the WOST-Plumes. The excavation stepped out to sample 13NCMOCSS
- Excavation/Removal of overburden began @ the E-Plume.
- 52 bulk bags were loaded and weighed today.

Rite in the Rain

 7/24/2014 NE Cape HTRW R. James
3414087, Cloudy, 45°F, N winds 1-5mph
0700 Safety: Close-quarters. Wash Hands, Sneeze into sleeve
objectives: Excavate E-Plume. Haul bags to Cargo Beach. Collect sidewall samples from C-Plume.
- LK suggests adding another lines in the stockpile area to hold questionable soil which may or may not be above cleanup levels (4'-7' interval) at the E-Plume.
- Work on the DQR for 7/25
  - Complete and email to Craner ~ 1000 hrs
- Discuss additional maps for Site 21. The USACE wants a map showing the 2014 borings, 2013 sample Results, historical exceedances along the utilidor corridor and the excavation boundary.
- FOL duplicates 10/14, 2/15
  - 12 confirmation sample locations (10 sidewall, 2 floor) were collected from the C-Plume and the trench for Historical sample 13NCMOCS5077/085.

- Confirmation samples were collected by L. Kleppin and will be submitted to the field lab for DRO/RRO analysis.
  - Samples submitted at ~1230 hrs.
- Work on and complete Site 21 Figure and email to J. Craner @ 1430 hrs.
- Soil is being excavated at the E-Plume and stockpiled at Pad 98.
  - Overburden is being stockpiled on a liner. Some potentially contaminated overburden is being segregated and will be sampled tomorrow for field lab analysis.
- Twelve bulk bags filled today
- Bags were hauled to Cargo Beach and staged for shipping off-island.

Rite in the Rain

7/27/2014 NE Cape HTRW R. James
Partly Cloudy, Fog nearby

0700 Safety: Communication – Think through new tasks and develop plan of action
- Ask if you have questions – Do not hesitate
- Beware of open excavations – Take care and don't get close.

- Prep phase Mtg for Site 10 and Site 32 sampling was held @ 0800 – Prep phase sheets to be scanned following the meeting.
- I looked for historical elevation data for the samples @ sites 10 and 32. Did not find any. Looked through the "All Data" excel sheet that the USACE provided to Bristol. The 5 samples @ Site 10 will be collected from 6"-12" bgs. QAR requested that they be collected closer to 1' bgs. Bristol will collect as close to 1' as possible.

FJ

5 Site 10 Samples:
1. 94NE10SS125
2. " SS126
3. " SS127
4. 96NE10SS104
5. 96NE28SS107

Historical Sample "D"

3 Site 32 Samples:
1. 01NE32SS122 (0.5' bgs)
2. 01NE32SS102 (1.5-2.0' bgs)
3. 03NE32SS07 (0.5' bgs)

Historical Sample ID

- Bristol plans to collect these today
- ET will collect the samples
- Nicole from TA informed us that one of our Excavation samples (001) had a DRO concentration of 12,000 mg/kg. This sample was collected from the SE portion of the excavation and was located underneath a culvert. This is the culvert that connected to the former manhole in the "western drainage". The northern sections of this culvert were removed in 2010
- DQCR 019 sent to J. Cramer @ 1158 hrs.

Rite in the Rain

- ETS in Sampling at Site 10 ~1400 hrs
- GPS the sample locs
- GPSed the bulk bag staging area at Cargo Beach
- At Site 10, there is a spot ~15' north of sample 14NC10-SS006 that contains stained soil, debris and rags. We will collect a TPH/RRO - Surface Soil Sample from that location w/ID 14NC10SS007 @ 1555
  - Analyzing for TPH/RRO
- 3 samples collected at Site 32 to be analyzed in the field lab for TPH/RRO - 14NC32SS002/003 was collected from 1.5' - Diesel odor (Duplicate)
- All sample locations at site 32 were marked w/lath and GPSed.

7/28/2014 NE Cape MTRW R. James

34140087, Overcast 34140087

0700 Safety: PPE, Speed limit, Appropriate clothing, walk around vehicles.

- Camp - Bed changes today - Remove personal items from Bed.
- Timesheets today

Objectives: Bag dirt, Excavate POL Soils

- Look for the old E-Plume confirmation sample results!
- 2 of the stockpile samples were above cleanup levels -
  - these will be moved to Pad 98 and ~~resampled~~ the soil underneath will be resampled
- The overburden that exceeded cleanup levels was removed and hauled to Pad 98.
- Bags were hauled to Cargo Beach
- Bering Air Navajo arrived - Samples were shipped off-site to Test America

7/29/2014 NE Cape HTRW R. James

Low Fog, Blue Skies, 47°F, E Winds 3 mph

0700 Safety: AHA for Excavation, Debris Removal.

- Stockpile Re-Samples were above Cleanup levels
- Landing Craft will arrive 7/31 @ 1630 hrs.
- Work on DQCR for 7/28/2014 and email to Cramer @ ~0940 hrs
- Complete paperwork for Debris Removal Prep phase - will hold the prep phase later today
- Complete follow-up inspection paperwork for Site 28 (2013 contract) and the POL Removal @ the MOC - will do these later today also. RS - Did not do this day - 07-30 RS
- Email GeoTek Re: 8/1/2014 Mobe to NE Cape - Bristol will fly the Rig via CASA aircraft from Nome.
- Visit Cargo Beach - Bags are being staged for shipping.
- The Eastern trench at the E-Plume is being excavated at the MOC.

- Weather is Sunny, blue skies and relatively hot ~55°F
- GPS debris @ Site 7
- 8 sidewall + 3 floor (flooded) samples from E-Plume
  Sample 12/3 are duplicates
- E Plume sample locations and excavation extents are GPSed - Also GPS - Fuel containment corners, stockpile corners, proposed MW locations, bulk bag loading frames, screen plant, and the Site 21 Road centerline.
- E-Plume is being excavated at its western side.
- 20 flats were staged at Cargo Beach for the landing Craft.

Rite in the Rain

7/30/2014 NE Cape HTKW R. James
34140087, High Clouds, 55°F
0700 Safety: Be Ready for weather, Emergency Procedures -
Objectives: Pot excavation & Bagging
- Make Map for Site 21 and
  - 3, 12, 4 from E-Plume are above cleanup levels
  - Call Satellite AK about internet connection - Lab is having issues transferring the files -
- Nicole said it appears as if some samples from Site 10 and Site 32
- Edit the Site 21 figure and email to Crane.
- Give LK a map of excavation progress & the MOC
- Marked historical excavation boundaries of the E-Plume near the current C-Excavation so LK could plan the removal of the sample 14NCMOCG5501 -
- Rain and south winds at 1400 hrs.
- Bering Air arrives at 1710 hours. CASA aircraft

with groceries and other freight

R. James 7/30/14

Rite in the Rain

7/31/2014 R. James NE Cape HTRW, Bristol
34140087, strong south winds, Rain, Clouds
- Intermittent Rain, 56°F, 10mph SW wind
0700 Safety: Barge loading safety
AHA for boat loading ops.
- General Safety - Plan safety into everything you do.
- GPS 2 additional sidewall sample locs at the E-Plume
- Landing Craft today @ 1600 hrs
- I plume was excavated
3 samples - 2 sidewall locations
- Submitted to field lab
- GPS - 2 @ E, 2 @ C, 2 @ I
- Excavation extents
- Removing overburden at E from Hot spots 3, 4, & 7
Landing Craft arrived ~ 1615 hrs
- 20 Flats (40 bags) were loaded onto the landing craft
- GPS excavation extents and sample locations.
- Sample results received for sites 10 + 32 (Field lab) - some locations at both exceed for PRG/ERG
- PSP 81-90 received (Results)
- all clean

R. James

8/1/2014 NE Cape HTRW R. James, Bristol
34140087, Potential Fog, 56°F, 15mph SW wind
0700 Safety: Job well done, Safety facts, Safety Joke.
- 4/1 waste characterization samples (including 3 duplicates) were delivered to the field lab - These are the samples from the bulk bags.
- Talk w/ Greg Jarrell - Lisa Geist & Aaron Shewman want to visit NE Cape on Monday 8/4/~~2014~~ 2014
- LK sampling E Plume SW ~ 1140 hrs, 5 locations 19, 20, 21, 22, & 23 - GPSed the locations ~1150 hrs.
- I marked the ground by some of the SW samples because some of the flags are getting blown away
- 14NCMOCESSD20 was collected at or near previous G/H/F excavation - No Room to Expand if sample is hot
- Boeing Air - 1530 hrs

Rite in the Rain

8/2/2014 NE Gale ATKW R. James, Bristol

34/40087, Fog

0700 Safety: Excavations - open - Beware Fog - use Radios. Seatbelts - wear them

Objectives: Bag soil - Road work at the intersection

- All POL Sidewalls appear to be clean according to the field lab - will await final delivery of sample results
- Still waiting for comments from the USACE and AFEC on Site 21 boring Locations
- Mark locations @ Site 10 - Site 32 where DRO/RRO were above cleanup levels.
- prep phase for Debris Cleanup w/ J Cramer & J. Allan @ 1500 hrs
- Relocate the Site 8 SW sample locations - Survey
- Plan prep phase for MW Install tomorrow afternoon -
- Mark out the final 9 borings at Site 21 - 1630 hrs

Rite in the Rain

8/3/2014 NE Cape HTRW R James 3+140087

Fog, Low wind,

0700 Safety: Minor Injuries - Treat them appropriately - Don't Neglect them.
- Why accidents occurr - unsafe acts + unsafe equipment

Objectives: Haul bags to Cargo Beach

Site 10 Mtg

- Maze, Chuck, Julie, Eric, Lyndsey, Craner, Rich, Nicole - Areas will be excavated to ~ 2-3ft and placed into 5-yd bulk bags.
- 0830 - Croley tells Craner and me that drums have been uncovered at site 10 - liquid is in the drums - they will be loaded into overpack containers
- 3 drums are out and 1 is visible in the ground.
- Visit Site 10 w/ Chuck, Maze, Craner, Julie - Jack has 2 drums w/ thick product in the excavator bucket, 1 on the ground next to the bucket and 2 are visible in the Excavation - oil/product is visible

on/in the soil.
- Craner asks Bristol to Remove the drums and place the stained soil into bulk bags
- The drums will be placed into overpacks and placed in a lined area.
- 0900 - A containment is being constructed at Site 10
- Bering Air arrives @ 1000
- part of the drill rig arrives on Casa Aircraft
- Finish Docks for 8-2-14 and email to Craner
- Site 10 soil Removal @ 1330 hrs
- using 5 YD Bags
- Casa Aircraft @ 1430 hrs
- more drilling equpt
- Trenton Bowers (GTA) arrives
- Visit Site 10 @ 1615 - Bag is full and waiting for George.
- ~5 bags filled @ Site 10 as of 1630 ~ 28 tons
- only 1 excavation opened @ the 3 hot spots

Rite in the Rain

- visit Pad 98 @1645 hrs
- Craner reminds me about the arsenic data —
- Send him the data from the GIS Figures

Rick James 8/8/14

8/4/2014 NE Cape HTRW, R. James

Job 54140087, Fog, Low Wind

0700 Safety: Heat Stress, Cold Stress, Fog, Equipment Inspections/Walkarounds

Objectives: Move drill rig to site, small ult jobs, Prep phase MW Install, Site 10 Excavations, Site Cleanup

- 8AM Prep phase - MW Install
- LK will collect Sidewall samples @ the E-Plume —
- Volvo Loader requires maintenance - will work on it today
- Prep phase for MW Install @0800
  - ADEC requests samples from potentially impacted areas above the water table. —
  - Craner instructs Bristol to accommodate ADEC's request
  - Bristol will attempt to segregate clean soil from contaminated soil - Drums are on hand. - Double check with GTA on whether or not we have all the materials on hand.
  - Combo locks have been ordered and will be delivered -

Rite in the Rain

"Chuck mentions that there are some locations w/buried concrete - If borings/wells have to be moved, then try new locations so that the wells can be installed.

- Prep phase for Site 32 excavation @ 0821
  - soils will be hauled to Pad. - Soils will not be hauled to Pad per Cramer.
  - Keep separate so that the weights can be taken.
  - will be loaded directly into bags @ the site.
- Chuck asks about Site 21
  - "we're still waiting on AINEC Comments
- 14 confirm soil samples collected @ Site 10 - will be analyzed for GRO/VOCs, DRO/RRO, glycols, PCBs, PAHs, Metals - 2 duplicates collected"

Sunday 8/17/2014 NE Cape HTRW
R. James. High Clouds 54140087

- Fly to NE Cape @ 0845 on CASA aircraft.
- Tour Site w/Croley until 1200
- Organize Site 10 sample Results - Figure out the locations left to sample -
  - 14NC10SS01 and 14NC10SS02 remain for excavation for PCE and TCE contamination respectively.
- Mark the samples at Site 10 that require excavation + discuss the planned excavation.
- Aaron asks to ensure that the sono tubes are properly draining water
- Take pictures of Monitoring Wells
- Check Total Access for Sample Results - Site 6 PCBs and Site 27 Naphthalene results are received. All below cleanup levels. All PCBs are non-detect @ Site 6.

Rite in the Rain

- 3 Bering Air flights (CASA) arrived yesterday - I Mobilized to the site, Bruce Schnever and Jebb Adkins left the site. Drilling equipment was shipped to Nome.
- MI samples was collected at site 26 - DRO/RRO, BTEX

Monday 8/18/2014 NE Cape HTRW
34140087. R. James Partly Cloudy, 500F

0700 Safety: Non-project personnel
- M. Toolie - will be on light duty today - He hurt himself (strained chest) during the evening yesterday
- He visited the Medic last night - ~~[illegible]~~ The injury occurred on his own time ~~during~~ RJ after working hours -

Objectives: Survey Crew will fly in today, samples will be shipped out, the oily dirt at Pad 98 will be bagged, USACE visitors will arrive later this morning.
- site visit w/ Snewman
  - site 6 - All clean - will be backfilled
  - Site 7
    - Aaron Requests additional Material at the top of Site 7 where there are depressions. Add Material and grade to blend in to surroundings
  - Mentioned a drum @ Site 9
  - Metal roofing on North side of Pad 98

Rite in the Rain

- Site 21 Excavation
  - 03NECFASB55
  - 03NECAFSB13
  - Backfill the current excavation areas @ Site 21 and mound them to account for settling. QAR Shewman and I looked at the area where the 2 excavations will occur.
- Site 32 - Survey then Backfill
- MW - Being developed
  - USACE Requests MW88-3 be developed. If it develops well, then sample and Recondition the well.
- Regrade the overburden stockpile Area
- MW88-3 - Cut pipe - new bolts, Lock - 1/2" bolts
  - Abandon 22-MW3 and 18 MW1

1700 hrs - 56°F

Tuesday 8/19/2014 R. James 34140087

Cloudy, 57°F, 10mph SW winds NE Cape H9GW

0700 Safety seatbelts

Morning Science Mtg: Survey - talk to Scott McClintock re: priorities - Security Aviation is expected this morning.

- Discuss Survey needs w/Aaron - Survey the Site 28 boundary and the MOC Boundary.
- Security Aviation arrives @ 1100 hrs - J. Caner arrives.
- Site 21 is being excavated @ Historical locs 03NECAFSB55 and SB13. 10 primary and 1 duplicate samples were collected.
- Security departed @ 1300 hrs w/A Shewman. Samples from Site 10 (VOCs to SGS) and Site 21 (As to TA) were shipped out.
- All the wells were developed today
- 55°F @ 1725 hrs - S winds 12 mph

Rite in the Rain

Wednesday 8/20/2014 NE Cape HTRW

R. James, 34140087, 50°F, SW wind 6 mph

0700 Safety: PPE - wear it even during the slow times. More locals in town.

- Mtg - Site 21 backfill is nearly complete
  - Site 7 was capped & seeded

Objectives: Site 6 will be backfilled today. MI sample will be collected at Site 26. Field Lab is being shut down. MW Abandonment.

QAR mentions a well at the corner of the MOC Rd w/concrete and metal that he would like removed.

- Chuck asks to include the info about a local being treated by the Medic in the DQCR.

Punch Out Checklists - Prep for MW Sampling.

- GPS abandoned well locations.
- Craner finished w/Eco Land ~1500
  - Took ~1.5 hrs.
- Drive around the site w/Jeremy

Punch-out Inspections.

① Site 6 - Done

② MOC MW - Mark the IDs clearly in a few locations at each well

- 1718 - 55°F - SW wind 14 mph

Thursday 8/21/2014 NE Cape HTRW

R. James, 34140087, 50°F, S wind 5 mph

0700 Safety: Failing to Plan is Planning to Fail. Safety Award Jack Willis

Objectives: Site 7 capping.

- 26MW1, 22MW2, 17MW1 were sampled yesterday -
- DQCR completed and emailed to Craner.
- LK setting up on the MW north of the shop pad @ 1000 hrs.
- Security Aviation arrives @ 1130 hrs - R. Broyles, V. Palmer, A. Elconin arrived
- Security leaves @ 1420 - M. Hannah, R. Losche, J. Craner, A. Elconin, R. Broyles, V. Palmer leave the site.
- Analyze MNA samples - Nitrates for GW01, GW02 and GW03
- Nitrates sulfate and alkalinity completed for ~~SRS~~ GW01 - GW05

Rite in the Rain

Friday 8/22/2014 NE Cape HTRW

R. James 34140087

0700 Safety: Last task - Remain Safe

Objectives: Bag @ Site 10, Figure out some equipment to ship out, pull lath around the site except around control points and MWs. Drums will be consolidated. One of the excavations can be backfilled.

- Excavating @ Site 10 - Samples 14NC104035 and -040 are excavated
  - 3 bags are filled from samp location 40 (228ppb TCE)
  - 2 bags are excavated at Samp loc 35 - After one bag (5CY) was excavated @ 35, the soil was visibly stained and dirty rags were visible in the sidewall, so one more bag was filled - 5 total
- Excavation completed @ 0908 hrs -
- Soil Sample 14NC10SS041 @ 0928
  - duplicate = 042 - Analyzing for VOCs 8260
- Site 21 Arsenic Samples received - All are below cleanup levels -

Saturday 8/23/2014 NE Cape HTRW

34140087, R. James, 51°F, N wind 3mph

0700 Safety: Water Sampling and sampling supplies

- LK and EB are sampling the wells - ~~we~~ One additional set of sampling equipment was shipped to the site so that 2 wells could be sampled at the same time
- Received phone call from the Sam Taalak - They will land tomorrow @ noon to take equipment and some bags - we will ship 2 vehicles: Escape and 115 pickup, motor grader, 1 rock truck, screen plant.
- Water Sampling completed today
- The southern excavation at Site 10 was backfilled.
- Camp tents are being taken down

R. James

Rite in the Rain

Sunday 8/24/2014 NE Cape HTRW
R. James, 3414087, 53°F, N wind 3mph
0700 Safety: Barge loading, Equipment in Camp
- Complete DOCR and send to Chuck for Comments
- Drive to Site 10 @ 0940 and mark waste drums - Get ID of the container (Conner) holding the wastes.
- Drive to Beach and get the weights off of the open-tops from Site 28.
- Return to Camp @ 0940 and fill in the waste tracking spreadsheet.
- Bering Air arrived ~~1420~~ 1440 hrs
- Groundwater samples were shipped out. Johnny Willis and Suzanne Lovell left the site.
- MW 88-3 was repaired - The PVC was cut ~ 3". Bolts were replaced.
- Lath picked up from the MOC
- Landing Craft arrived today @ 1130 hrs. Seven (7) flats

- 14 bulk bags were shipped off the island. Equipment was shipped out too: JD 850, Arctic Cat UTV, Escape, 115 Truck, Ambulance, Rock truck, Screen Plant, 544 loader, 160 Motor Grader, Roller Compactor
- The MOC and site 21 surface water samples were collected.
- Lath was pulled from Site 21

Rite in the Rain

Monday 8/25/2014 NE Cape HTRW
R James 34140087
0700 Safety: Buddy System
objectives: Place locks on wells - Mark the IDs, Pack stuff + move out of tents and into trailer.

Tuesday 9-30-2014 NE Cape HTRW
SW Winds 10-20 mph
R James 34140087
0700 Safety: Tagging ops - Eye contact w/operator.
- Site 10 @ 09 30 - 2 bags taken from sample locs 41 and 42 for TCE.
- 2 new samples collected and surveyed.
- MS sample - triplicate - taken @ Site 216 - 004, 005 and 006. DRO, RRO, GRO/BTEX
- Site 10 was backfilled and graded. A liner was placed in today's excavated area.
- Surveyors collected the final grade.
Being Air arrived twice today @ 10 AM and ~1900 hrs - ECOLAB arrived in the AM and departed in the PM - Scott McClintock and Arnaud Jacobs.
- Silt Fence Removed from MOC

Rite in the Rain.

Wednesday 10-1-14 NE Cape HTRW
R. James SW winds 10-15 MPH
40°F

0700 Safety Meeting

- Light Fixture Repaired in the lab trailer - Ballast Replaced
- Cap and lock were replaced @ MW 20-1 (20 MW-1). The Previous ~~Current~~ cap was too tall and the cover wouldn't shut w/the lock attached, so a shorter ~~tall~~ cap was used.
- Container contents are being consolidated and cans are being organized.
- Wheel on the Kitchen trailer was replaced.

R. James

10-2-14 - Thursday R. James
34140087 - NE Cape HTRW

- USACE Visit -
- Security arrives ~1100 hrs.
- USACE asks Bristol to fill in excavation @ Site 21 and at the NW Corner of MOC
- Camp Continues Consolidation

Rite in the Rain

10-6-2014, Monday NE Cape HTRW
R. James 3414008?

Barge Load @ ~~07~~ 2130 hrs
- The Nursing lands @ Cargo Beach and 21 Flats are loaded (42 bags).
The barge is off-shore. The landing Craft will load the barge and Return for 2nd Load

10/8/2014
R. James 3414008?
NE Cape HTRW
- landing Craft last night and today - Only 25 flats of Dirt Remain to be shipped out.
- Debris Cans were Weighed - There are 3 cans
- WMXU 6319 - NET 2310 lbs
- WMXU 6349 - NET 4340 lbs
- WMXU 6219 - NET 15250 lbs
⇒ Total 10.965 tons of Metal/Debris.

Rite in the Rain

R. James
Bristol
Northeast Cape 2014
6-10-2014

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Project NE Cape 2014

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Location NE Cape Date 6-10-14

Project / Client USACE

Patchy Fog, Partly Sunny 38°F

- Arrive NE Cape @ 1100 hrs
- Get Red pickup started and jump start Rack Truck

Personnel: Croley; Willis, Jack; Johnny Willis; Barnhill; Craner

1300 hrs. Arrive @ Site 21 w/ Craner and Barnhill - Begin Marking out Boring Locations w/ Craner while Barnhill returns to Runway / Camp to get Lath

- GPS Unit: Trimble GeoXH GeoExplorer 2008 Series

Horizontal Accuracy (in field) 26"

- Craner Requests tape of the Site 21 Boring area - and to survey general Features
- Finish Marking the boring locations @ 1445 hrs - Accuracy ~ 21"
- Craner departs ~ 1530 hrs on Security Aviation.
- Bering Air brought gear ~ 1420 hrs
- Take photos of the sea ice.

Location NE Cape Date 6-10-14

Project / Client USACE

Continued...

- 2 trailers are set up ~ 1700
- Generator is moved into place and functioning - the trailers have power
- 3 conexes are moved to camp: communications, lab, + Environmental

End ~ 2000

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Site 21 Arsenic Borings

0700 Safety Meeting:
- Slips, trips, falls
- Excavator safety

- Gather gear & sampling gear
- Johnny & Jack attempting to get excavator running ~ 0730
- Boring #1 was dug w/ Excavator - ground is frozen - 0900 hrs

Sample 14NC21SS001-1 @ 0910 hrs - Analyzing for Arsenic - Frozen soil - 1' bgs

Soil Sample 14NC21SS001-2 @ 0920 hrs - Frozen @ 2' bgs

Soil Sample 14NC21SS001-3 @ 0925 hrs - collected @ 3' bgs

Soil Sample 14NC21SS002-3 @ 0945 - not frozen - below groundwater ~1'

Soil Sample 14NC21SS002-2 @ 0950 - Frozen - High organic - collected w/ Auger and Excavator -

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued

Sample 14NC21SS002-1 @ 1000 hrs
Frozen - Very High Organic/Grass
collected from 1' bgs @
the groundwater level, which
continues to rise
- Excavating @ Boring 003 @ 1007 hrs
⇒ Soil Sample 14NC21SS003-3
@ 1015 hrs - Frozen - brown
soil - 3' bgs - Collected from
- Excavation (pothole) sidewall
⇒ 14NC21SS003-2 @ 1016
Frozen brown soil w/ ice
2' bgs
⇒ 14NC21SS003-1 @ 1022 hrs
- Frozen - brown soil - 1' bgs
• Water was filling in the
bottom of the Boring 003 Excavation
when sampling was complete
- Excavating Boring 004 @ 1030 hrs
- photo taken of excavation
14NC21SS004-3 @ 1035
- Brown Sandy/Silty soil - 3'
bgs

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued...

⇒ 14NC21SS004-2 @ 1036
Frozen soil - 2' bgs
⇒ 14NC21SS004-1 @ 1038 hrs
Frozen - high organics
⇒ 14NC21SS005-3 @ 1049
- wet - 3' bgs - Not Frozen
* Duplicate 14NC21SS005-4 @ 1056
⇒ 14NC21SS005-2 @ 1051 - Frozen
brown soil
~~005-4 @ 1054 [illegible]~~
⇒ 14NC21SS005-1 @ 1054 hrs from
1' bgs - lots of ice - high
organics - Frozen - ~~[illegible]~~
~6" ice lens @ ~1'
⇒ 14NC21SS006-3 @ 1117 hrs
MS/D @ 3' bgs
brown sandy silt - 3x4oz
Jars collected - Not Frozen
⇒ 14NC21SS006-2 @ 1122
2' bgs - Not Frozen
Organics
⇒ 14NC21SS006-1 @ 1125
high organics & grass
- Frozen near surface

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued...

⇒ 14NC21SS007-3 @ 1138
- brown/gray silt - sulphur smell - 3' bgs

⇒ 14NC21SS007-2 @ 1140
- High Organics - brown 2' bgs

⇒ 14NC21SS007-1 @ 1146
- Frozen - brown soil w/ ice chunks

- Break for lunch @ 1200 hrs RS

- Excavate 008 @ 1300 hrs
- Frozen soils near the surface -

⇒ 14NC21SS008-3 @ 1305
Sandy silt, 3' bgs

* Duplicate 14NC21SS008-4 @ 1310 RS

⇒ 14NC21SS008-2 @ 1312
Not frozen, mineral soil, 2' bgs

⇒ 14NC21SS008-1 @ 1316 hrs
- Frozen, pebbles; 1' bgs

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued...

⇒ 14NC21SS009-3 @ 1331
- collected from beneath groundwater @ 3' bgs

⇒ 14NC21SS009-2 @ 1333
- Frozen - water is pouring into the excavation - sample was collected from under water

⇒ 14NC21SS009-1 @ 1338
- Frozen; organic

⇒ 14NC21SS010-3 @ 1350

* Duplicate 010-4 @ 1351
Sandy soil

⇒ 14NC21SS010-2 @ 1354
Frozen @ 2' bgs

⇒ 14NC21SS010-1 @ ~~1358~~ RS
@ 1357 - Frozen, sandy, organic

⇒ 14NC21SS011-3 @ 1410
- Frozen ice lenses in brown soil - 3' bgs

⇒ 14NC21SS011-2 @ 1414
Frozen soil 2' bgs

⇒ 14NC21SS-011-1 @ 1417
Frozen. High organics 1' bgs

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued..

=> 14NC21SS012-3 @ 1516
Brown/black organic clay

=> 14NC21SS012-2 @ 1515
sandy, Frozen

=> 14NC21SS012-1 @ 1523
Frozen. sandy,
- water is steadily filling the excavation - water ~8-10" following sampling (Excavation ~ 4' deep)

=> 14NC21SS013-3 @ 1547
Frozen solid, Brn, Gray, 3' bgs

=> 14NC21SS013-2 @ 1552
- Frozen, Brown - 2' bgs

=> 14NC21SS013-1 @ 1557
Frozen organic soil - Brown
1' bgs

- Boring 013 was frozen completely to 3' bgs

- Boring 014 @ 1608 hrs is frozen soil. Excavator is ~~being~~ being used. Excavator has been utilized for all the borings due to frozen soils.

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued

=> 14NC21SS014-3 @ 1610 hrs
Frozen @ 3' bgs

=> 14NC21SS014-2 @ 1615 hrs
Frozen @ 2' bgs

=> 14NC21SS014-1 @ 1619 hrs
Frozen, 1' bgs

=> 15NC21SS015-3 @ 1637 hrs
Frozen, brown soil, 3' bgs

=> 15NC21SS015-2 @ 1641
Frozen @ 2' bgs

=> 15NC21SS015-1 @ 1647

*Duplicate 15NC21SS015-4 @ 1649
Frozen, 1' bgs

- GPS Battery died - will leave the excavations open and GPS the sample locations in the morning

- Excavate boring 016 @ 1656 hrs

=> 14NC21SS016-3 @ 1700 hrs
MS/D, 3x4oz jars of soil collected

=> 14NC21SS016-2 @ 1702
- frozen soil w/ice lenses light brown color

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued...

⇒ 14NC21SS016-1 @ 1709
frozen organic soil

Boring 017 was moved west ~ 10' due to the boring being located in a pond. It was moved to the edge of the pond.

⇒ 14NC21SS017-3 @ 1714 hrs
Gray silt/clay, brn loamy

⇒ 14NC21SS017-2 @ 1716 hrs

* Duplicate 14NC21SS017-4 @ 1715 hrs

⇒ 14NC21SS017-1 @ 1719 hrs
Frozen, lt brown organics
- was not frozen @ 2' or 3' bgs - Duplicate @ 2' bgs

⇒ 14NC21SS018-3 @ 1729 hrs
Brown Organic Silt - Not frozen

⇒ 14NC21SS018-2 @ 1732 hrs
- Brown Organic Silt - Not Frozen - MS/D

⇒ 14NC21SS018-1 @ 1737
Frozen Organics

Location NE Cape, Site 21 Date 6-11-14

Project / Client USACE

Continued...

- 54 primary soil samples collected today. 3 MS/MSDs were collected → (18-2, 16-3, and 6-3). 5 Duplicates collected w/ samples 17-2, 15-1, 10-3, 8-3, 5-3.
- Ended sampling @ 1800

Location NE Cape, Site 21 Date 6-12-14

Project / Client USACE

Light Rain, North Winds ~38°F

0700 Safety: Seatbelts, Walking on tundra

- Arrive @ Site 21 ~0815 and GPS borings/Excavations 15, 16, 17 and 18.
- Boring/Excavation 19 @ 0840

⇒ 14NC21SS019-3 @ 0849
- Brown organic silt - low plasticity, peat

⇒ 14NC21SS019-2 @ 0857

★ Duplicate 14NC21SS019-4 @ 0858
- Brown, highly organic silt w/ plant Material

⇒ 14NC21SS019-1 @ 0900
- Frozen brn/gry silt/clay w/ organics.

⇒ 14NC21SS020-3 @ 0919
Frozen brn/gry soil w/ small pebbles

⇒ 14NC21SS020-2 @ 0921
- brown, Chocolate-looking frozen soil

⇒ 14NC21SS020-1 @ 0925
- "Chocolate" frozen soil

Location NE Cape, Site 21 Date 6-12-14

Project / Client USACE

Continued..

- 0920: Rain/Snow Mix

⇒ 14NC21SS021-3 @ 0952
- Frozen

⇒ 14NC21SS021-2 @ 0955
- Frozen, brown w/ small pebbles

⇒ 14NC21SS021-1 @ 1000
- Frozen Gray Silt

⇒ 14NC21SS022-3 @ 1012
Brn, Gray organic silt

⇒ 14NC21SS022-2 @ 1015
Sand & Brown Organic silt

⇒ 14NC21SS022-1 @ 1016
- Peat - Frozen @ Surface

⇒ 14NC21SS023-3 @ 1128
Gray Sand/silt/clay, Frozen

⇒ 14NC21SS023-2 @ 1129
- Gray silt/clay

⇒ 14NC21SS023-1 @ 1135
Brown Silt - like chocolate

⇒ 14NC21SS024-5 @ 1151 hrs
Frozen brown peat, silt/clay

Location NE Cape, Site 21 Date 6-12-14

Project / Client USACE

Continued...

⇒ 14NC21SS024-2 @ 1155
Frozen, Brown "Chocolate" soil
Silt/Clay
⇒ 14NC21SS024-1 @ 1157
- Froze, brown organic soil
⇒ 14NC21SS025-3 @ 1213
Muddy, dk brn, few grasses
⇒ 14NC21SS025-2 @ 1215
★ Duplicate 14NC21SS0254
~~- Muddy, grass, dk brn~~ R3
- High organics, frozen, lt brn @ 1222
⇒ 14NC21SS025-1 @ 1223
— Break for Lunch 1245 —
- So far, 75 primary samples, 7 duplicates, 3 MS/MSDs —
⇒ 14NC21SS026-3 @ 1418
Brown Silt - Organic
⇒ 14NC21SS026-2 @ 1419
Frozen, brown organic
⇒ 14NC21SS026-1 @ 1420
Frozen Organic soil - High organics

Location NE Cape, Site 21 Date 6-12-14

Project / Client USACE

Continued...

⇒ 14NC21SS027-3 @ 1437
★ Duplicate 14NC21SS027-4 @ 1438
- Peat,
⇒ 14NC21SS027-2 @ 1440
Brown, Frozen
⇒ 14NC21SS027-1 @ 1445
- Frozen Brown silt w/ice
⇒ 14NC21SS028-3 @ 1456
- Organic brown silt
⇒ 14NC21SS028-2 @ 1458
lt brown silt
MS/MSD
⇒ 14NC21SS028-1 @ 1500
- Frozen, lt brn/Red organic silty soil
⇒ 14NC21SS029-3 @ 1518
- Gray Silt
⇒ 14NC21SS029-2 @ 1520
- Gray gravelly silt
⇒ 14NC21SS029-1 @ 1522
★ Duplicate 14NC21SS029-4 @ 1523
- Note Duplicates are being homogenized in stainless bowl

Location: NE Cape, Site 21 Date 6-12-14

Project / Client USACE

continued...

- Decon Method: (1) Alconox solution (2) Water Rinse (3) DI water spray

29-1 = Frozen brown organic silt w/organics; roots, etc.

=> 14NC21SS030-3 @ 1540
Gray Silt

=> 14NC21SS030-2 @ 1543
Gray silt w/ice lenses

=> 14NC21SS030-1 @ 1544
Frozen dk brn silty soil w/organics

=> 14NC21SS031-3 @ 1555
- gray sandy silt

=> 14NC21SS031-2 @ 1557
- gray silt w/gravel + sand

=> 14NC21SS031-1 @ 1559
brown organic silt - Frozen w/ice lenses

=> 14NC21SS032-3 @ 1611
- Brown organic silt

=> 14NC21SS032-2 @ 1614
High Organics, lt brown

RJ

Location NE Cape, Site 21 Date 6-12-14

Project / Client USACE

Continued...

=> 14NC21SS032-1 @ 1616
Dk brn/black w/very high organics - Frozen; ice lenses

=> 14NC21SS033-3 @ 1634
brown organic silt

=> 14NC21SS033-2 @ 1637

* Duplicate 14NC21SS033-4 @ 1638
Brown organic silt w/some ice

=> 14NC21SS033-1 @ 1638
- brown Frozen Organic silt

=> 14NC21SS034-3 @ 1658
Gray silt

=> 14NC21SS034-2 @ 1700
Gray Silt

=> 14NC21SS034-1 @ 1703
Gray Clay w/ice

- Return to Camp @ 1730 -

Notes: 02 primaries, 10 duplicates 4 MS/MSDs

~~- End Sampling~~ RJ

Location NE Cape, Site 21 Date 6-13-14

Project / Client USACE, Cloudy, Misty, Cool, ~35°F

Objectives: ① ~~Compm~~ Complete Site 21 Arsenic sampling. 6 borings remain. We need to collect 2 duplicates and 2 MS/MSDs. ② Complete sample packaging, double-check labels and COC, prep Gel-Ice and coolers. We will leave tomorrow and ship the samples out.

- Sampling Crew: E. Barnhill and R. James. Jack Willis has been operating the excavator. All boring locations have been frozen at the surface.

0700 Safety Meeting:
- Wildlife - Foxes
- Stay Warm & Dry

⇒ 14NC21SS035-3 @ 0823
MS/MSD, Gray Silt/Clay

⇒ 14NC21SS035-2 @ 0824
* Duplicate 14NC21SS035-4 @ 0825
- Gray silt/clay w/some ice

⇒ 14NC21SS035-1 @ 0832
- Frozen Peat

Location NE Cape, Site 21 Arsenic Date 6-13-14

Project / Client USACE

Continued...

⇒ 14NC21SS036-3 @ 0842
* Duplicate 14NC21SS036-4 @ 0843
Gray Silt/Clay
- Water @ bottom of excavation and rising.

⇒ 14NC21SS036-2 @ 0846
MS/MSD - Frozen (ice) gray silt w/some red/brown organic silt

⇒ 14NC21SS036-1 @ 0850
Frozen Peat

⇒ 14NC21SS037-3 @ 0900
- gray silt/clay Frozen

⇒ 14NC21SS037-2 @ 0903
- Frozen gray silt/clay

⇒ 14NC21SS037-1 @ 0906
Frozen gray silt/clay and peat, collected @ the boundary of peat and clay (beneath)

⇒ 14NC21SS038-3 @ 0926
Gray Silt/clay - Not Frozen

⇒ 14NC21SS038-2 @ 0927
Gray Silt/clay w/ICE

Location NE Cape, Site 21 Date 6-13-14

Project / Client USACE

Continued...

=> 14NC21SS038-1 @ 0930
Frozen, Dk brown Organic

=> 14NC21SS039-3 @ 0947
Brown, wet organic silt and Sand w/peat Collected adjacent to stream

=> 14NC21SS039-2 @ 0951
lg, dk brn Frozen organic silt

=> 14NC21SS039-1 @ 0955
lg, dk brn (chocolate)

=> 14NC21SS040-2 @ 1004
gray silt

=> 14NC21SS040-1 @ 1002
wet organics w/ silt

=> 14NC21SS040-3 @ 1011
gray silt w/ rocks & gravel

- Boring 40 was collected w/ Hand auger
- Return to camp ~ 1030 -
- Find codes Connex and get 5 codes from the Connex

Location Date

Project / Client

JULIE ALLAN

BRISTOL ENVIRONMENTAL

NORTHEAST CAPE 2014 - JOB# 3414ØØ87

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Project 2014 NE Cape

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PAGE	REFERENCE	DATE

Bristol job

8/1/14 2014 NE Cape 34140087

0830 J. Allan heads to airport, will fly from Anchorage to Nome.

1200 Flight arrives in Nome, go to Bering Air for flight to NE Cape.

1420 Bering Air flight leaves Nome.

1530 J. Allan arrives at NE Cape. Get gear unpacked and computer set up.

1730 Done for today.

Julie Allan 8/1/14

Bristol job

8/2/14 2014 NE Cape 34140087

0655 Daily safety meeting.

0700 Daily enviro. meeting.

0730 J. Allan sits w/ R. James to get an idea of what's currently happening at NE Cape ~~currently~~ JA 8/2/14. Go over contract items, status of work, daily reports, etc.

1200 Lunch.

1310 R. James / J. Allan to site 6 to check out location marked by ECO-Land that seems off. Bristol is going to ask ECO-Land to get a new OPUS solution, and then re-mark point.

1315 RJ / JA to site 10. Bristol collected some samples here earlier this season - Several samples exceeded cleanup for DRO/RRO - will need to dig out the hot spots. Also, we are waiting for results from other analytes (PAHs, VOCs, etc.) - should have those results soon.

1330 RJ / JA to site 32 to mark out a sample location that needs to be excavated - DRO / RRO only.

JA 8/2/14

8/2/14 2014 NE Cape Bristol job 34140087

1335 RJ/JA look at C, E, and I POL plumes.

1345 RJ/JA check out bagging operations at Pad 98.

1355 RJ/JA to Cargo Beach. Bruce is bringing bags down to beach w/ yard goat, Jeb in loader is staging the flats on the beach.

1420 Back at office. J. Allan works on the prep. phase meeting for monitoring well installation.

1500 Prep. phase meeting for debris removal. Present: R. James, J. Craner (USACE), J. Allan.

- 2 tons sitewide
- 2 tons Site 7
- Options for additional removal (10 tons at each)
- Segregate metal from rest of debris.
- Capping (additional) at Site 7? - up to 100 cy
- Crews will remove debris by hand, mark debris that cannot be removed by hand. USACE and Bristol will look at debris that can't be removed by hand, decide if debris should be pulled w/ excavator or if it should be capped.
- Debris will be loaded in connexes
- J. Craner says lots of debris all across MOC, just get as much as possible.

8/2/14 2014 NE Cape Bristol job 34140087

1515 Follow up meeting for Site 28 sediment removal.

1530 Follow up meeting for MOC POL removal.

- It's looking like excavation might be complete at C, E, and I plumes.
- Ron Broyles (USACE) is working on a mod. for 500 additional tons of POL soil (which would make 4,500 tons of POL soil total).
- Lyndsey Kleppin needs to check to make sure we've got enough sample frequency along the sidewalls and the bottom.
- Need to have excavation extents and sample locations surveyed.

1550 Will try to do prep. phase meetings for monitoring well installation, and soil removal at Site 10 and Site 32 tomorrow.

1605 J. Craner, R. James, J. Allan finished w/ meetings. J. Allan works on prep. phase meetings for well installation, soil removal at Site 32.

1730 Dinner - done for today.

Julie Allan 8/2/14 Rite in the Rain

Bristol job

8/3/14 2014 NE Cape 34140087

0655 Daily safety meeting.

0705 Daily enviro. meeting.

- Site 10 - how much are we taking out?
  - 1 sample by itself on Pad, ~10' x 10' x 2'
  - The 3 samples together, triangle around points, to ~2-3' deep.
  - Chuck / Maze discussing where to put back
- Lyndsey is going to collect the MOC surface water samples ("during" excavation)
- * Note: this discussion about Site 10 excavation serves as the prep. phase meeting

0730 J. Allan works on prep. phase meetings for soil excavation at Site 10, and soil excavation at Site 32.

0900 C. Croley tells J. Allan that drums were found when crew was prepping Site 10 for excavation

0910 CC/JA at Site 10. 5 drums were found, appear to contain black, oozy, tar-like material. Drums will go into overpacks, will discuss with USACE how to proceed. (R. James, J. Cramer already onsite to look at the drums). In the meantime, drums will be put into overpacks, w/ overpacks sitting on liner

0940 Back at camp. J. Allan working on DQCR for yesterday (8/2/14).

JA 8/3/14

8/3/14 2014 NE Cape 34140087

1100 Bering Air CASA arrives w/ drill rig.

1200 Lunch.

1315 R. James, J. Allan to Site 10. Crew is prepping to begin soil excavation. Drums found earlier have been put into overpacks, into a new lined containment.

1335 Begin excavating soil at Site 10.

1415 R. James, J. Allan back at camp.

1430 Bering Air CASA arrives w/ one GeoTek personnel (Trenton Bowers) and the last of the GeoTek equipment.

1630 RJ / JA to Site 10 to check out the excavation. Things are looking good.

1635 RJ / JA to Pad 98. Contaminated soil stockpile is getting smaller - looks like they will finish loading bags sometime tomorrow. There's still a small stockpile that needs to be screened before it is bagged.

1725 RJ / JA back at camp.

1800 JA sends out the signed DQCR. Done for today.

Julie Allan
8/3/14

Rite in the Rain

8/4/14 2014 NE Cape Bristol job 34140087

0655 Daily safety meeting. Topic: Heat stress, cold stress, more excavation safety. Equipment inspections and walk-arounds.

0705 Daily enviro. meeting.
- Liz needs an excavator to collect a few sidewall samples from E
- Prep phase meetings at 0800
- Looks like drilling (MW installation) may not happen today - only helper is here.

0805 Prep. meeting for monitoring well installation
- Discuss sampling protocol. Craner says the C. Dunkin wanted an additional sample above the GW interface, but Craner says we'll have to evaluate
- Discussions of cuttings - try to segregate "clean" from "contaminated" cuttings. Can send a sample of "clean" cuttings to field lab
- Sono-tubes - Chuck isn't sure if sono-tubes are on-site. NEED TO CHECK.
- Chuck mentions that a lot of concrete was used as backfill - we might have some issues drilling.

JA 8/4/14

8/4/14 2014 NE Cape Bristol job 34140087

0825 Prep-phase meeting for Site 32 Excavation.
- We'll truck soil down to Pad 98
- We need to track weight of material removed from the site - keep it seperate from MOC POL soil
- After discussion, we decide we'll set up a load frame and bag soil at the site instead of trucking to Pad 98.

0835 Chuck asks about Site 21. Jeremy says we are still waiting on final approval of boring locations from ADEC.

0840 Meeting adjourned. J. Allan works on daily report for yesterday (8/3/14).

1000 Crew has looked for sono-tubes, cannot find any. Get Greg in Anchorage office to try to track some down.

1140 Send DQCR for 8/3/14 to J. Craner (USACE QAR) for review and QAR additions.

1200 Lunch.

1325 Receive QAR comments on 8/3/14 DQCR.

1345 J. Craner tells J. Allan that we have approval on the 9 boring locations at site 21, and work there can be done anytime. JA 8/14/14

Rite in the Rain

Bristol job

8/4/14 2014 NE Cape 34140087

1345 cont. Also, Security Flight is planned for tomorrow (8/5/14) - Lisa Geist and Aaron Shewman (both USACE) are planning to come observe the MW installation. If Security Flight cannot come tomorrow for any reason (i.e. weather), they will not be coming either Wednesday or Thursday.

1420 J. Allan helps E. Barnhill prepare Site 10 samples for shipment to TestAmerica Tacoma.

1600 J. Allan emails signed DQCR for 8/3/14 to group.

1620 J. Allan out to site to check out today's progress. The two excavations at site 10 have been sampled.

1630 J. Allan at Pad 98.

1645 J. Allan to Site 21 to check out the 9 proposed boring locations.

1655 J. Allan to Site 32. Crew has set up a load frame and brought bags and excavator to site. Looks like crew is ready to excavate.

1715 J. Allan shows drilling crew monitoring well locations.

1740 Back at camp. Done for today.

* Note: Boring Air arrived @ ~1630 hrs - 4 people in (Geotek driller, replacement TA analyst, 2 ECO-(and personnel) 3 people out (R. James George Mack, Nicole Irons-TA). Julie Allan 8/4/14

8/5/14 2014 NE Cape 34140087

0655 Daily safety meeting.
- General camp/site rules.

0705 Daily enviro. meeting.
- LC with drillers. She'll start with the least contaminated (most upgradient)
- How many tries at one location? JA w/ direct push before switching to auger and just installing wells? Have to see what happens. Maybe about 3?
- EB will be doing Site 21 borings.
- No work on Site 32
- Check on Hach Kits that Marty ordered?

0725 J. Allan gives Scott McClintock (ECO-Land) a list of survey tasks. Ask him to start with the OPUS solutions at Site 6 and at the MOC.

0735 J Allan working on DQCR for 8/4/14.

1000 C. Croley, J. Allan to Cargo Beach. We passed surveyors at Site 6 on the way - looks like they are probably doing OPUS solution.

1005 C. Croly, J. Allan check out drilling operations. Boring at MW-7 (upgradient location) has been completed w/ no problems.

Rite in the Rain

8/5/14 2014 NE Cape Bristol job 34140087

1020 C. Croley / J. Allan to Site 21. All is going well here - E. Barnhill is on the 4th boring. Crew has been able to auger some, and use excavator on some of the deeper intervals.

1050 C. Croley / J. Allan back at camp. J. Allan continues to work on daily report for 8/4/14.

1220 Lunch.

1300 J. Allan finishing DQCR for 8/4/14

1420 J. Allan out to bag staging area (Site 26) to verify the # of bags of soil from Site 10. It looks like there are 13 bags total that have been removed from Site 10.

1430 J. Allan talks to E. Barnhill about Site 10 - verify that 7 bags were removed from Site 10 yesterday.

1435 J. Allan checks in with L. Kleppin and the drillers. All is going well - they've completed 3 borings so far.

1515 Back at office.

1700 J. Allan at MOC to check out soil borings. Crew is finishing 5th boring - 2 more to go.

1730 J. Allan to Pad 98. Crew has finished bagging main stockpile, and has started screening the other stockpile.

1740 J. Allan back at camp. Cannot send out DQCR for 8/4/14 right now because internet

8/5/14 2014 NE Cape Bristol job 34140087

1740 cont. is down. It has been down since ~1600 hrs.

2015 J. Allan emails to DQCR for 8/4/14 to group. Done for today.

Julie Allan 8/5/14

Rite in the Rain

Bristol job

8/6/14 2014 NE Cape 34140087

0655 Daily safety meeting.
- Drilling activities
- Screening at Pad 98

0705 Daily enviro. meeting.
- UC needs to package samples this a.m.
- EB finished at Site 21. He will package samples this morning. Also get crew going at Site 32, and collect waste characterization samples from Site 10 overpack drums (soil & black tarry material)
- Chuck wants to start digging at Site 6 when possible - check with surveyors on their progress there.

0740 Chat w/ Scott McClintock (ECO-Land). Yesterday ECO-Land accomplished:
- Excavation extents & sample locations at MOC
- Excavation extents & sample locations at Site 10
- Site features at Site 32
- Soil borings at Site 21
- Re-located the Site 27 sample location

Today they are increasing the topo point density at Site 21.
- ECO-Land also re-located Site 6 sample location
- Ran static sessions at Site 6 and MOC. OPUS QC ~~at~~ ~~at~~ was not passed.

Bristol job

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0815 J. Allan out to Site 6. ECO-Land re-located sample Ø9NCØØ7SBØ3 - it was basically in the same place they located it earlier this season. Will discuss w/ R. James.

0830 J. Allan locates Site 27 historical sample location UST-CS-27-EN-04-01 that ECO-Land has marked out.

0840 Back at camp to work on DQCR for 8/5/14.

0900 J. Allan / C. Croley speak w/ R. James in Anchorage. Talk about when we can start thinking about packing up the mobile lab.
- Also, Site 27 - now that the historical sample location has been relocated, we'll have to dig a test pit to the elevation of the historical sample, describe the geology, and collect a sample for DRO/RRO and naphthalene. * NEED to figure out elevation of historical sample
- Site 6: ECO-Land has relocated the historical sample, basically the same spot where they located it the first time. Discuss with R James about collecting a sample where ECO-Land placed the location, and collecting another sample where our Trimble GPS places the location.

Rite in the Rain

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0920 Phone call w/ R. James cut short because of phone/internet problems.

0935 Discussion w/ J. Craner (USACE).
- Asks if Bristol can get the final tonnage of MOC soil bagged so USACE can exercise option for correct amount of additional soil. J. Allan needs to get him that # tonight or early tomorrow a.m.
- Need to check w/ L. Kleppin to see if we have any contaminated soil in the over-burden stockpiles that needs to be bagged still
- Talk about the Site 6 sample. J. Craner likes the idea of collecting sample where ECO-Land marked, as well as where Trimble GPS places the location. That should cover our bases.

0955 J. Allan working on DQCR for 8/5/14.

1025 J. Allan to Site 32, Excavation has been completed - E. Barnhill is collecting confirmation samples.

1035 J. Allan to MOC to check drilling. Crew is just finishing up last boring.

1045 J. Allan to Site 21, ECO-Land is collecting additional points for topo-map.

JA 8/6/14

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1055 Pad 98: crew is running screen plant.

1105 J. Allan back at camp, work on 8/5/14 DQCR.

1215 Send DQCR (8/5/14) to QAR for review. Lunch.

1235 Look at analytical results in Total Access, send Jeremy Craner the most current results

1330 Speak w/ Scott McClintock (ECO-Land). Get the elevations of sample 09NC007SB07 (at site 6) = 49.109 and sample UST-CS-27-EN-04-01 (at Site 27) = 70.162. Also let Scott know that excavation and sampling at Site 27 is done, and he can survey.

1335 J. Craner (USACE) tells J. Allan/C. Croley that excavation will be happening at Site 21 this year. If desired, Bristol can begin excavating at 2013 sample locations 13NC21SS023 and -026. There will be more excavation to do, but we will wait until receiving data from Site 21 samples collected yesterday.

1410 Email R. James asking for coordinates for select sample locations at Site 21 so surveyors can locate.

Rite in the Rain

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1440 Bering Air onsite, bringing food order and surveying equipment. They also pick up 3 coolers of samples - 2 coolers of soil samples from MOC well installation, and 1 cooler with Site 21 soil samples/waste char. sample from overpack drums at Site 10.

1530 L. Kleppin/J. Allan out to Site 6. While LK starts test pit at the location of Ø9NCØØ7SBØ3 marked by ECO-Land, JA uses Trimble to locate Ø9NCØØ7SBØ3.

1555 J. Allan locates historical sample with Trimble. Both this location and location marked by surveyors has an elevation of ~49 feet, which is the approximate elevation of the historical sample. For both locations, one sample will be collected at ~49 feet, and one sample will be collected at the top of the native soil. (PCB analysis).

1620 Moving to location marked by Bristol. LK collects a sample ~3" bgs, then test pit is excavated to native soil, and LK collects another sample.

*Note: LK logged lithology of both test pits.

1635 Done at Site 6.

1640 Check in with drillers, who are installing wells. They've completed one, are working on the second.

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1650 J. Allan to Pad 98. All material has been screened, crew is bagging now. Looks like bagging will not be finished today.

1700 J. Allan at Site 27 w/ J. Craner. Look at historical sample location VST-CS-27-EN-04-01, and it is in an area that has already been excavated and backfilled by Bristol previously. Per QAR, Bristol will excavate a test pit down thru the fill into the native soil, and collect a sample from the native soil. DRO/RRO, naphthalene analysis. * Sample will likely be below current water level.

1715 Look at well that GeoTek has installed today.

1730 Back at camp. Work on Prepphase Meeting for excavation at Site 21. Also calculate current weights for bags to get to J. Craner so he can get to CO for a new mod.

2100 Finished w/ paperwork, done for today.

Julie Allan
8/6/14

Rite in the Rain

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0655 Daily safety meeting. Topics: Wind

0705 Daily enviro meeting.
- Site 21 prep. phase meeting
- Discuss Site 27
- Bagging almost done

0730 Talk to Richard in the field lab. They have run the Site 10 excavation confirmation samples, and it looks like samples 14NC10SS017, -022, and -023 exceed criteria for DRO/RRO. -016 and -020 are borderline.

0830 J. Allan to Site 27. Crew has dug in the sidewall of this year's E plume excavation beneath the marked historical sample location. LK has found native soil ~2' feet below the water level. LK logged lithology and collected a sample

0855 Back at camp, work on DQCR - 8/6/14.

1120 J. Allan at Pad 9S, crew is just finishing bagging the rest of the soil.

1200 Back in camp for lunch.

1315 Have conversation w/ R. James regarding the analyses for Site 10. We've got analytical results back for all analytes from the initial investigation - only DRO/RRO exceeds cleanup levels. Propose that future Site 10 sampling only be for DRO/RRO.

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1335 J. Allan talks to J. Craner (USACE QAR) about Site 10 sampling, that Bristol proposes to only analyze for DRO/RRO now. J. Craner will talk to USACE personnel in Anchorage to get an answer from them.

1430 J. Craner tells J. Allan that we have tentative approval from USACE to analyze samples for DRO/RRO only at Site 10. Will have a final decision tonight or tomorrow morning. Bristol will contact TA-Tacoma to put the other analyses (PAHs, PCBs, Metals, GRO, VOCs) on hold for now pending a final decision from USACE.

1510 J. Allan emails J. Craner POL bag weights. Final total except one half-filled bag left in load frame just in case.

1535 J. Allan headed out to Site 21 to observe excavation. Meet E. Barnhill / L. Kleppin - excavation went quick and is finished at 2013 sample locations 13NC21SS023 and -026.

1545 J. Allan at Site 21 to look at excavation and take pictures.

JA 8/7/14

Rite in the Rain

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1600 J. Allan at Site 10 to look at exc. confirmation samples that exceed DRO/RRO criteria (or are close to clean-up level). Samples 14NC10SS022 and -023 are in the smaller excavation (where sample 14NC10SS002 was located). 016, 017, and 020 are sidewall samples in the larger excavation.

1605 Check in with drillers. They need to change out the transmission on the auger motor - hopefully it will get here tomorrow. They will work on flush-mount completions for the 2 wells already installed.

1610 Looks like laborers are picking up debris.

1615 To Cargo Beach - flats are being staged so they are ready to be loaded next time Northland comes.

1640 Back at camp.

1700 Talk w/ Chuck, he's talked to R. James. We can excavate hot spots at Site 10 whenever - we'll just collect samples for the full suite of analyses, and we can cancel them if USACE decides we need to analyze for DRO/RRO only.

1745 Dinner - done for today.

Julie Allan 8/7/14

8/8/14 2014 NE Cape Bristol job 34140087

0655 Daily safety meeting. Preventing falls from equipment. Rain and wind.

0705 Daily enviro meeting.
- Site 10 digging this morning.
- MI sample at Site 28
- Check into Site 32 results
- Drillers did both well completions yesterday, will repair wells today

0730 J. Allan gets preliminary DRO/RRO results from the mobile lab for the Site 32 samples. 14NC32SS002 and -003 were above 9,200 mg/kg. -004 could potentially be >9,200 mg/kg, but we won't know for sure until TA-Tacoma processes the results.
* EB says -002 and -003 are primary/duplicate.

0745 J. Allan checks Total Access for analytical results. Have gotten finals for DRO/RRO from the Site 10 excavation. Samples 14NC10SS017, -020, -022, and -023 exceed criteria for DRO and/or RRO.

0800 J. Allan working on yesterday's daily report.

0900 J. Allan at Site 10 to observe excavation.

0920 Check out surveyors. They are surveying bottom of MOC excavations.

0940 Back at Site 10.

1005 At camp to work on DQCR.

Rite in the Rain

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1130 J. Allan emails DQCR for 8/7/14 to QAR for review.

1215 Lunch. Talk with J. Cramer (QAR). Crew found some stained soil when excavating at Site 10, so ~~we~~ JA directed crew to dig ~~a little more than~~ those spots a little further to remove the stained soil.

1320 Talk to C. Croley about backfilling the MOC excavations. After checking with L. Kleppin, Croley decides we will start backfilling at a later date.

1420 J. Allan to Site 7. Laborers are picking up debris around the landfill. Excavator removing some debris from a small pond on N side of landfill, making sure to stay away from the cap so as not to start pulling debris out of the already capped portion.

1445 J. Allan to Site 10. Finished excavating - E. Barnhill is collecting conf. samples from today's dig out spots. Tell EB that we got an email from town - We need to keep analyzing for full suite of analyses. PAH and PCBs will be sent to SGS for rush analysis. Laborers are consolidating material from the 4 overpack drums into 3 drums.

1520 J. Allan back to camp to get Trimble.

Bristol job

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1540 J. Allan uses Trimble GPS to record coordinates of confirmation samples that E. Barhill collected today.

1605 J. Allan to Site 32 to record locations of exc. confirmation samples w/ Trimble.

1630 J. Allan back to office, call R. James.

1710 J. Allan back to Site 32 to continue GPSing.

1730 Dinner, done for today.

Julie Allan
8/8/14

Rite in the Rain

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0655 Daily safety meeting. Fast-changing weather. Doing various tasks-consider safety.

0700 Daily enviro. meeting.
- Will work at Site 32
- LK needs one more floor sample from E then we can backfill
- For backfill, Chuck will slough in sidewalls first.
- Tundra cleanup will continue today
- JC/JA will take a look at Site 21 map to see where excavation will be
- "Poor" wells in WP have been repaired 17-1, 88-1, 10-1

0730 Speak to Richard in mobile lab about Site 32 results. 14NC32SS004, which was potentially above 9,200 mg/kg, looks like it will NOT be.

0745 Let J. Craner know that we've excavated 194.53 tons at Site 10 - getting close to 250 ton limit. Also discuss Site 21. Samples 13NC21SS045, -046, and -047 will be dug similar to -023 and -026. For historic samples 03NECAFSB06 and -07, exc. will be approx. 25'×25'×1'. Will peel of the gravel road, and dig ~1' into native soil then collect sample.

0800 J. Allan working on DQCR for yesterday.

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0945 Talk to Chuck about excavating at Site 21. He's concerned about excavating at historical sample locations 03NECAFSB06 and 07. They are on the road, so it will make access to the main part of Site 21 very difficult. Chuck will go look at site.

1040 Email DQCR for 8/8/14 to J. Craner

1100 J. Allan to site 21 w/ Chuck. Location of 03NECAFSB07 has not been marked. Discuss logistics of excavating at the 2 spots in the road.

1115 J. Allan observes backfilling of E excavation

1125 E. Barnhill is setting up DU/increments for the MI sample of the Site 28 work pad. J. Allan records corners of DU w/ Trimble GPS.

1135 Check in w/ drillers. Repaired rig is doing well so far.

1145 At site 32 to check out the ~~ex~~ JA area excavated this morning. Record coordinates of the new excavation corners and 2 new sample locations w/ Trimble.

1215 Back at camp, lunch.

1225 Talk to Chuck, he tells J. Allan that drillers were having problems at one location where there was a lot of fill. (cont.)

Rite in the Rain

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1225 cont. A test pit was dug ~ 5-10' into the fill to remove large rocks, and the pit was backfilled JA ~~from~~ with screened material. The well will be installed thru the fill. Chuck concerned that the integrity of the well may be compromised.

1230 J. Allan talks to L. Kleppin about the well installation in the backfilled test pit. J. Craner was present when this happened, and he is okay with this modified method for well installation where there are large boulders/rocks, as long as Geotek has tried 3 times with auger.

1245 At Site 21, will swing-tie location of sample 03NECAFSB07 based on locations of other known points.

1400 Passing Pad 98 to site JA ~~98~~ 21, notice soil is being brought to Pad 98. Talk to C. Croley - he says that there was some contaminated soil covered w/ liner in an overburden stockpile that only L. Kleppin knew about. So we will have more MOC POL soil to bag.

1415 J. Allan and laborer use swing tie measurements to mark 03NECAFSB07 at Site 21.

1435 J. Allan back at Camp to tell J. Craner about soil being taken to Pad 98. Bring in L. Kleppin to figure out what is going on.

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1450 J. Craner, L. Kleppin, J. Allan down to site. LK explains that a couple of sidewall samples from overburden area were above 9,200 - that's where this "new" soil came from. J. Craner remembers these samples being collected, and after discussion decide to collect a composite sample from the soil now at Pad 98 to verify that the material is above 9,200 mg/kg. Also, there are chunks of liner material in stockpile at Pad 98 that USACE requests to be removed.

1510 LK departs to get jars to sample the stockpile at Pad 98. DRO/RRO analysis, will go to mobile lab.

1515 J. Craner / J. Allan take a look at the new wells. J. Craner would like a slice or notch out in the downhill side of the sono-tubes so water will be able to drain out.

1535 Check out E. Barnhill collecting MI sample from Site 28 work pad.

1545 Excavation contines in E excavation.

1555 Laborers are removing liner from soil stockpile at Pad 98 by hand.

1610 J. Allan records coordinates of Site 10 excavation corners w/ Trimble GPS.

JA 8/9/14

Rite in the Rain

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1225 cont. A test pit was dug ~ 5-10' into the fill to remove large rocks, and the pit was backfilled with ~~from~~ screened material. The well will be installed thru the fill. Chuck concerned that the integrity of the well may be compromised.

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JA 8/9/14

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1535 Check out E. Barnhill collecting MI sample from Site 28 work pad.

1545 Excavation continues in E excavation.

1555 Laborers are removing liner from soil stockpile at Pad 98 by hand.

1610 J. Allan records coordinates of Site 10 excavation corners w/ Trimble GPS.

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1635 J. Allan records test pit corners and sample locations at site 6.

1655 J. Allan/J. Craner look at some of the debris on the south side of site 7 landfill.

1730 Back in camp. Work on paperwork.

Julie Allan
8/9/14

Bristol job

8/10/14 2014 NE Cape 34140087

0655 Daily safety meeting, Site 21 - one lane traffic, bugs, etc.

0705 Daily enviro. meeting.
- Pad 98 - laborers will be pulling visqueen
- Site 21
- Site 10 PAH, PCB samples need to go to S&S on today's Security flight
- 2 wells installed today.

0800 J. Allan gets preliminary DRO/RRO results from mobile lab.
- Site 10 - prelim DRO/RRO below clean up
- Site 32 - " , but sample 11 has DRO of 5,862 mg/kg
- Stockpile at Pad 98 - Borderline. DRO results of 7,091 and 6,712 mg/kg.

0830 J. Allan works on DQCR.

0945 J. Allan to site 21. Crew has completed digging at sample location 13NC21SS045, and are digging at -046. Tell E. Barnhill to wait until A. Shewman - USACE (J. Craner's alternate) is onsite to excavate the 2 historical samples in the road (03NECAFSB06 and -07).

1025 J. Allan back at camp to finish yesterday's DQCR.

1050 J. Allan emails DQCR to J. Craner for review.

1120 Security charter flight arrives onsite w/ Aaron Shewman, George Mack, Kurt (Global).

Rain or the Rain

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1320 J. Craner / A. Shewman tell J. Allan that they modified the plan for excavating 03NECAFSB06 and -07 at site 21. Excavations around those sample locations will be ~10' x 10', and 2' into native soil. Also will collect sidewall samples.

1330 Security flight departs.

1340 J. Allan at MOC. L. Kleppin was ready to take samples from the footprint of one of the overburden stockpiles, but the footprint still needs a little clean up work (which will be done soon).

1350 J. Allan at site 21. Crew has excavated around sample location 03NECAFSB07, preparing to excavate around sample location ~~07~~ 06

1405 J. Allan heads back to camp to pick up sample containers so E. Barhill can collect the during excavation surface water samples at site 21.

1435 J. Allan back at site 21 w/ bottles for surface water samples. Crew is excavating 03NECAFSB06.

1510 J. Allan collects GPS coordinates of site 21 features w/ Trimble GPS.

1530 Crew finished excavating at site 21.

1620 J. Allan back at camp

1700 Out to work site to take some pics.

1800 Dinner, done for today.

Julie Allan 8/9/14

8/11/14 2014 NE Cape 34140087

0655 Daily safety meeting. Safety quiz.

0705 Daily enviro. meeting.
- Clearing up footprint of overburden stockpiles so Lyndsey can sample
- Drillers have one well left
- Figure out what's going on for Pad 98
- Straw wattles at edge of MOC pad at site 28 manhole location to prevent silt from going thru.

0745 J. Allan working on DQCR for 8/10/14.

1050 J. Allan out to site. Talk to C. Croley and drillers - they are having problems drilling last monitoring well, it's really rocky and the rig needs fairly constant welding. Chuck or Julie will talk to A. Shewman about the problems and the well location.

1100 Crew still working on coralling liner from overburden stockpiles - both from material at Pad 98, and at the footprint of the second overburden stockpile.

1110 C. Croley / J. Allan talk to A. Shewman. We'll check water level in well that drillers are having problems with (MW-7) and go from there.

1120 Cannot get a water-level measurement - there is a cap in the augers, will have Geotek knock the cap out so we can measure for water.

1130 J. Allan observes rock trucks being loaded from borrow source. Rite in the Rain

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1140 Observe backfilling of E Plume excavation.

1200 Back at camp. *Note: when talking to A. Shewman @ 1110 hrs. ~~today~~, J. Allan let him know that we've collect~~ing~~ed JA ~4.5 tons of debris sitewide so far – base contract limit is 2 tons.

1205 Email DQCR from yesterday to A. Shewman for review.

1420 Bering Air arrives at site. New medic and new Global bull cook arrive onsite. 1 coder shipped to TA.

1455 L. Klappin lets J. Allan know that drill rig is broke down. U-joint has failed. There is discussion about getting a CASA out to bring a downhole hammer. Also, LK measured water in MW-7, or rather, tried to measure water – there was none. Ask LK to think about collecting Site 8 samples.

1500 Bering Air departs w/ Tabitha Hughes (medic) on board.

1620 J. Allan out to check on drillers. Johnny Willis is welding together the 2 yokes ~~that hold~~ JA together w/out u-joint – see if that will get the well finished. GeoTek has finished well repairs – all that is left is to finish in this well (14MW07) and well development.

1655 E. Barnhill/L. Klepping collecting Site 8 surface soil samples.

1700 J. Allan observing backfill of E Plume. Adjacent I plume excavation is pretty full of water. A. Showman at backfilling area to observe –

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1700 cont. he requests that backfill not be pushed towards I Plume, and let the water level drop overnight. Laborers have put straw wattles at the head of Site 28 to prevent silt runoff into 28.

1720 Drillers are attempting to finish drilling 14MW07 – the 2 yokes have been welded together

1735 Back at camp

1800 Dinner and work on paperwork.

Julie Allan
8/11/14

Rite in the Rain

0655 Daily safety meeting. Introduce new medic.
- Rules and laws, self-will from Chuck. Respect for others. Slow down, plan.

0705 Daily enviro. meeting.
- Received some GRO, VOCs, metals data for initial Site 10 excavation.
  - 14NC10SS013 has PCE @ 29 µg/kg
  - 14NC10SS018 has chromium @ 37 mg/kg
- J. Allan will talk to field lab about DRO / RRO results
- Drillers got to required depth at 14MW07 last night. LK will check water level this am.

0740 J. Allan talks to Richard / Nayer in mobile lab. Site 32 samples are below 9,200 - done with excavation. The composite sample from the stockpile at Pad 98 have DRO results of 8,400 mg/kg and 7,800 mg/kg (primary & dup) The second composite sample collected yesterday (8/11/14) from a second stockpile at Pad 98 look to be ~2,000 mg/kg - PRELIMINARY.

0750 L.K. has checked 14MW07 - there is no water in the well. She asked drillers to step out and drill to 30' bgs instead of 24' bgs.

0815 C. Croley / J. Allan call R. James to discuss the sample results from the overburden stockpile. No answer - leave message.

0830 A. Shewman, C. Croley, J. Allan, L. Kleppin and the 2 GeoTek personnel discuss how to proceed with the installation of 14MW07. A. Shewman is okay with stepping out from the current dry location, using an excavator to dig a test pit to ~15' bgs, backfilling the test pit w/ screened material, and have the drillers auger the well. The newly placed fill will be above the well screen. Will have drillers go down to ~30-35' and Bristol will check for water. A. Shewman will go to the site to help select the step out location.

0900 C. Croley / J. Allan talk to R. James about problems installing well 14MW07, as well as the stockpile at Pad 98 that had a composite sample result of 8,400 mg/kg for DRO (duplicate had DRO result of 7,800 mg/kg)

0925 Talk w/ A. Shewman. He requests the final tonnage excavated at Site 32. Also give him results for stockpile at Pad 98 - DRO of 8,400 mg/kg and 7,800 mg/kg. Ask him if that stockpile should be used as backfill. He will discuss w/ PDT.

0935 J. Allan emails final tonnage for Site 32 (53.13 tons) to A. Shewman

Rite in the Rain

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1025 J. Allan out to where 14MW07 test pit is, it is almost backfilled. The test pit was dug down to ~15' bgs.

1040 Still working on backfilling E excavation - almost complete. Silt fence has been istalled at Site 28, as well as straw wattles.

1045 Laborers continue removing liner from stockpile at Pad 98.

1050 E. Barnhill has just finished collecting samples from the footprint of the second overburden stockpile.

1105 Show Maze the debris at Site 7 that needs to picked up.

1110 Laborers onsite to begin picking up debris at Site 7.

1120 J. Allan back at camp to work on yesterday's DQCR.

1220 Email DQCR to A. Shewman for review.

1240 Receive email from R. James. The PDT has discussed the stockpile at Pad 98, and it needs to be re-sampled. Discrete samples will be collected at frequency specified in ADEC's Draft Sampling Guidance and submitted to field lab. Whatever is dirty will be bagged, whatever is clean will be used as fill.

1330 J. Allan out to Pad 98. Smaller stockpile w/ preliminary result ~2,000 mg/kg has mostly been moved and staged for backfilling. Operator will flatten out the pile that had a composite result

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1330 cont. of 8,400 mg/kg so we can measure and re-sample at the correct frequency.

1420 E. Barnhill has measured Pad 98 stockpile, there is ~190 cy. He will collect 4 samples and submit to field lab for DRO/RRO analysis.

1435 J. Allan back at camp, work on paperwork, downloading lab data from Total Access.

1640 A. Shewman, J. Allan, L. Kleppin to Site 8 to look at a surface water sample location where LK noted some additional sheen when she collected sample yesterday. She also broke thru a thin veg. layer not noted in previous years, but noted this year because water is so low. The "thin vegetative mat" appears to actually be a sorbent pad.

1655 Check in w/ drillers. They are to ~25' bgs in 14MW07. Still slow drilling.

1710 Backfilling continues in E Plume, almost finished.

1730 Back at camp, work on office stuff.

Julie Allan
8/12/14

Rite in the Rain

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0655 Daily safety meeting. Combatting fatigue. Take your time when switching tasks.

0705 Daily enviro. meeting.
- MW07: Drillers got to ~29' bgs, there is ~1' of water in the well
- EB will use Trimble to locate debris at Site 7
- UK says 3 wells at MOC can be decommissioned
- AS says he saw 2 wells at Site 24 that he didn't know where there - CC will take a look and may be Bristol will remove

0730 Work on yesterday's daily report.

0915 C. Crolley / J. Allan out to Site 24 to check out wells that AS pointed out.

1010 C. Crolley / J. Allan back at camp. *Note: camp generator went down for an oil change ~0745 hrs, couldn't be started back up. When CC/JA back at camp, Bristol had got our generator from the shop pad and were preparing to start it.

1020 Camp has power again!

1130 Stop by 14MW07 to check progress. There is several feet of water in the augers, and UK measured ~3'. Drillers will set well.

1200 Email A. Shewman yesterday's daily for review.

1455 Check in with drillers - they've finished installing 14MW07 and abandoned the dry well. Still need to put in flush mount monument.

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1500 A. Shewman notes that that one MW still needs reconditioning: 22MW-2. He told drillers already.

1505 Look at 22MW-2 with drillers, it's been fixed. Looks like A. Shewman was referring to 22MW-3, which is scheduled to be decommisioned.

1520 J. Allan at Site 24, Bristol will decommision the two wells noted by A. Shewman.

1545 Depart Site 24.

1615 Back at camp to work on some paperwork.

1800 Done for today.

Julie Allan
8/13/14

Rite in the Rain

Bristol job

8/14/14 2014 NE Cape 34140014

0655 Daily safety meeting. Safety story contrasted w/ Bristol's NE Cape safety. Check back-up alarms during daily walkaround. Skid steer safety when plane is being unloaded

0705 Daily enviro. meeting.

- NALEMP Site 3 - PCB dig (10' x 10' x 2') Try to get stake in the ground at sample location
- Talk about Site 21
- Site 10 - won't dig at chromium exceedance, but we will at PCE exceedance (per USACE). Will only sample for VOCs in conf. sample.
- C. Croley asks A. Shewman to take a look at Site 24 and Site 7 to make sure he's happy w/ work there.
- Pad 98 - prelim. discrete samples are below 9,200 mg/kg.
- USACE wants survey crew to map a boundary of the MOC. J Cramer or A. Shewman would walk w/ surveyors.

0730 J. Allan working on DQCR for 8/13/14.

0740 Get email from A. Shewman saying Curtis Dunkin (ADEC) wants a sketch of the four discrete sample locations and stockpile at Pad 98. He wants the sketch and results as soon as we have them before deciding whether to bag or use as backfill

8/14/14 2014 NE Cape job 34140014

0740 (cont) E. Barnhill will send the sketch.

1025 Receive final results for the 4 discrete samples from Pad 98 stockpile. All below cleanup level. A. Shewman will forward to C. Dunkin / PDT before proceeding.

1055 J. Allan sends yesterday's DQCR to QAR for review.

1110 J. Allan out to site. Backfilling continues at E excavation (almost done), crew packing equipment into conexes at Site 10 for demob.

1215 Lunch.

1250 A. Shewman tells C. Croley & J. Allan that C. Dunkin has reviewed the Pad 98 sketch and analytical results - Bristol can use as backfill.

1340 J. Allan to Pad 98 - soil is being loaded in trucks and taken to the I Plume excavation for fill.

1400 Observe backfilling of I Plume excavation

1430 Observe monitoring well development. LK is going to email R. James to try to get a Waterra pump for development - typhoon pump is pumping too fast and pumping well dry (MW1) Also, Bristol could develop wells instead of GeoTek.

1445 Back at camp.

1720 J. Allan & the 2 GeoTek personnel depart on Bering Air charter flight.

2200 J. Allan arrives in Anchorage. Done for today.

Julie Allan 8/14/14

Rite in the Rain

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 34140087

BOREHOLE ID: Test Pit 1 (ECOLAND) 09NC007 SB03 locate

Site Name: Site 6
Site Location:
Date Started: 8/6/14
Date Completed: 8/6/14
Logged By: L. Klappin
Company: BERS
Total Depth: 18 inches

Drilling Company:
Driller :
Drill Rig :
Borehole Diameter:
Sampling Method:

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					vegetation - grass, moss, creeping plants							
					gravel and boulders up to 2' across in sandy organic silt matrix w/dry root material moist, grayish brown, loose, no fuel odor							
6"				X	subrounded gravel of low sphericity							14NC06550 1 MS/MSD 1600
1'												
18"				X	clayey silt with gravel, moist, firm, greyish brown redoximorphic features - linear grayish brown							14NC06550 2 1610
					EOB 18"							14NC06550 3 1620 DUP
2'												

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 34140087

BOREHOLE ID: Test Pit 2 (Trimble GPS unit 09NC007580003 locate)

Site Name: Site 6
Site Location: Historical sample 09NC007580003
Date Started: 8/6/14
Date Completed: 8/6/14

Logged By: L. Klepper
Company: BERS
Total Depth: 3.5' bgs

Drilling Company:
Driller :
Drill Rig :
Borehole Diameter:
Sampling Method:

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
				X	silty gravel, brown, dry, loose, no fuel odor							Pad fill material @ 6" 14NC06550 4 1630
				X	clayey silt with gravel, greyish brown with orangish brown redox mottling, hard, moist, slight fuel odor							14NC06550 6 1635
5'					EOB 3.5'							

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

Client: USACE

Job No. 34140087

BOREHOLE ID: 14NC27

Site Name: site 27 – UST-CS-27-EN-04-01
Site Location: MDL
Date Started: 8/7/14
Date Completed: 8/7/14
Logged By: L. Klepper
Company: BERS
Total Depth: 15'

Drilling Company:
Driller: Excavator bucket
Drill Rig: N. sidewall of E2
Borehole Diameter:
Sampling Method:

Depth in Feet	Sample Interval	Blow Count	% Recovery	Sample ID	DESCRIPTION	PID (ppm)	WATER LEVEL	USCS	Estimated % Fines	Estimated % Sand	Estimated % Grave	REMARKS
					silty gravel, brown, dry to moist, dense			GM				fill
5												
10												▽ water level of open E2/E1 excavation
					wet							
				X	CLAY, grey, moist, fuel odor with discontinuous peat lenses, dark brown to black, moist, with strong fuel odor			CH				14NC27SS01 0830 14NC27SS02 0840 (DUP)
					PEAT, black, moist, strong fuel odor			PT				
15					CLAY (as above)			CH				
					EOB ~16'							

MONTGOMERY WATSON

SOIL BORING LOG

PROJECT NO.: 2198.0230 | BORING NO.: B-10-1 | SHEET 1 OF 1

PROJECT NE Cape SITE 10 CLIENT USACOE (AK) GEOLOGIST John DeGeorge

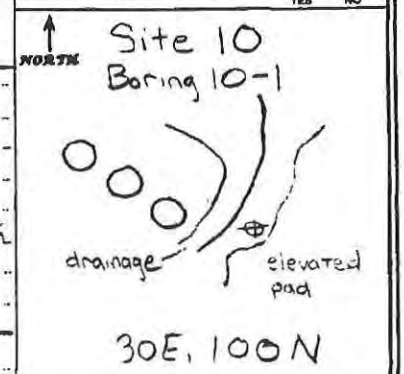
DATE 6-25-94 WEATHER Cloudy LOCATION COORDINATES 98219.0993 (Northing) / 96794.1917 (Easting) ELEVATION DATUM MSL (MSL/Other)

DRILLING METHOD HSA BORING SIZE 8" HAMMER DROP (IN/LBS) 30/340 RIG TYPE CME 55 DRILL COMPANY Denali Drilling

SAMPLES 6 SAMPLE TYPE discreet SAMPLER TYPE/DIAMETER 2.5" split TOTAL DEPTH (FT) 20.0 DEPTH TO SWL (FT) 3.5 TOP OF HOLE ELVEVATION 69.49

WELL COMPLETED? ☒ YES ☐ NO

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	PID (PPM)	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0		30	50	20	3	SM		1630		SILTY SAND WITH GRAVEL: orange-brown, moist, medium dense, fine to coarse angular gravel, fine-grained sand, rootlets to 3 fbg, stained black on surface. 50% recovery at 2-4', no apparent staining
10100 SB										
10101 SB	5 7 9						▽	1648		
10102 SB	8 7 7	30	20	50	3	ML		1707		GRAVELLY SILT WITH SAND: orange-brown, moist, firm, fine to coarse angular gravel, fine grained sand, 5% clay, natural iron staining?, 75% recovery
8		5	60	35	.75	SM				SILTY SAND: dark green, moist, medium dense, fine subangular gravel, very fine to fine grained sand, 5% clay,
10	6 8 12							1745		no apparent staining, 100% recovery. occassional layers of SANDY SILT, dark green, moist, firm, fine subangular gravel, very fine to fine grained sand, 5% clay
13		15	35	50	3	ML				SANDY SILT WITH GRAVEL: dark green, moist, stiff, fine to coarse subangular gravel, very fine to fine grained sand, 5% clay
15	50							1810		no apparent staining, 10% recovery
20								1830		no apparent staining, 100% recovery. Boring terminated at 20 fbg. Backfilled with Volclay Grout to 10 fbg. Installed 2" groundwater monitoring well.



LOCATION SKETCH

JOB No. 0000.0000 File: user name/project/File Name Time: 00-XXX-00 00:00

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

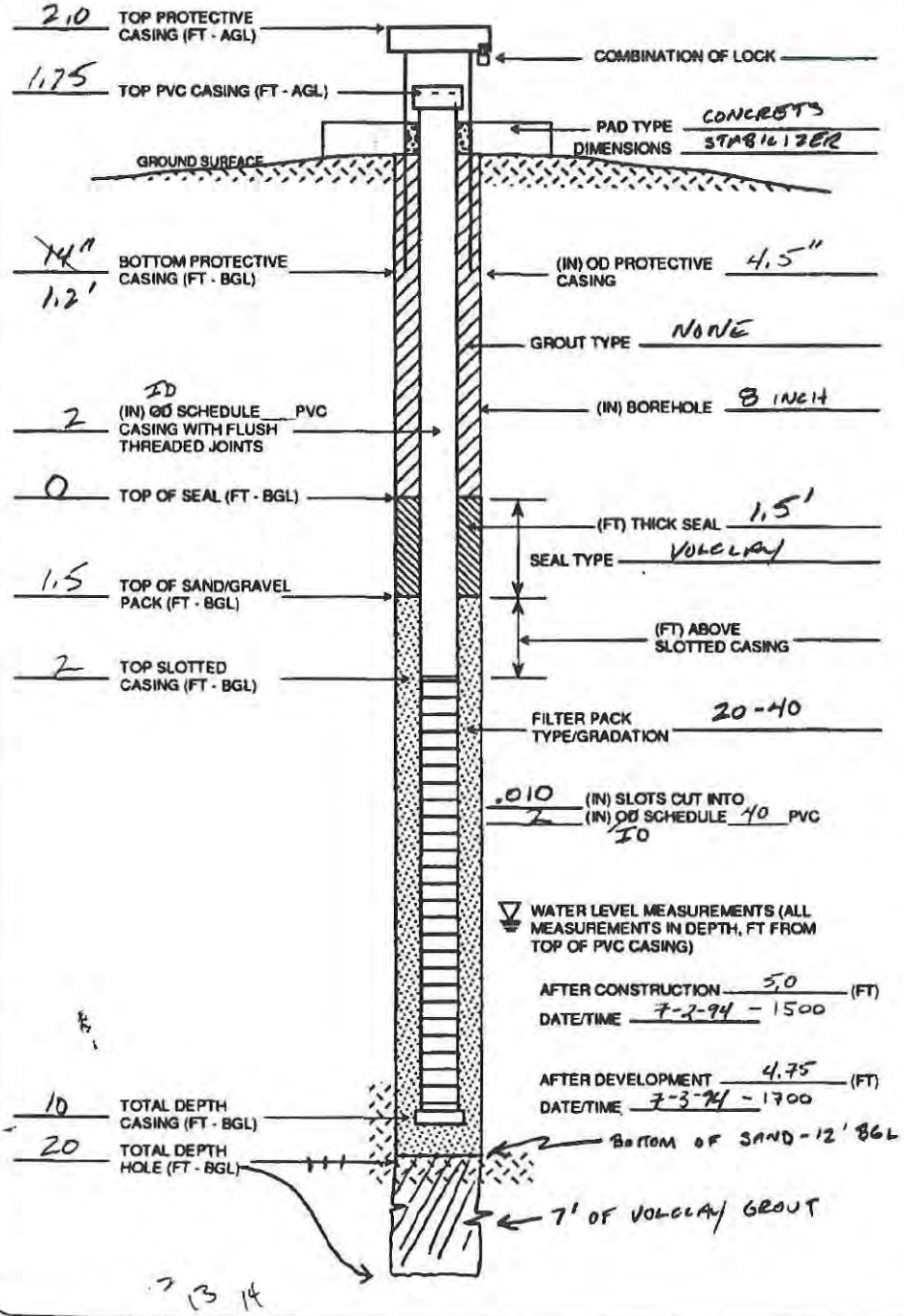
PROJECT NO.:	WELL NO.:	SHEET
2198.0230	10-1	1 OF 1

PROJECT NE CAPE SITE 10 CLIENT USACOE (AK) GEOLOGIST Victor Harris

DATE 6-26-94 WEATHER HI CLDS, 10 MPH WIND 70°F LOCATION COORDINATES 98219.0993 (Northing) / 96794.1917 (Easting) ELEVATION DATUM MSL (MSL/Other)

DRILLING METHOD HSA BORING SIZE 8 INCH RIG TYPE CME-55/NODWELL DRILL COMPANY Denali Drilling

SURVEYED ELEVATIONS 1.75 (AGL) GROUND SURFACE 69.49 TOP OF PROTECTIVE CASING 71.49 TOP OF PVC CASING 71.24



WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite (lbs)	50
Sand (lbs)	450 ~~300~~
Grout (lbs)	40
Screen (ft)	8
Blank Casing (ft)	5
Bottom Cap (ea)	1
Top Cap (ea)	1
Flush Mount	N/A
Protective Casing (ft)	1
Lock	1
MISC.:	CASING MANUF BY TIMCO

NOTES

SAND TYPE: COLORADO SILICA SAND

GROUT: CETCO VOLCLAY

SEAL: PERMA PLUG GRANULAR BENTONITE 3/8"

NOTE: HOLE WAS DRILLED TO 20' (EXPLORATORY), AND ALLOWED TO STABILIZE OVERNIGHT. SWL MEAS AM 6/26 @ 3.5' BGL. HOLE SEALED WITH BENTONITE FROM 13' BGL TO 20' BGL (TD) TO PREVENT DOWNWARD MIGRATION OF CONTAMINANTS.

A

Time: 00-XXX-00 00:00 File: user name/project/File Name

JOB No. 0000.000

Boring # - MW 88-1 | Project- NEC Phase III RI | Client- USACE | Date- 8/14/02

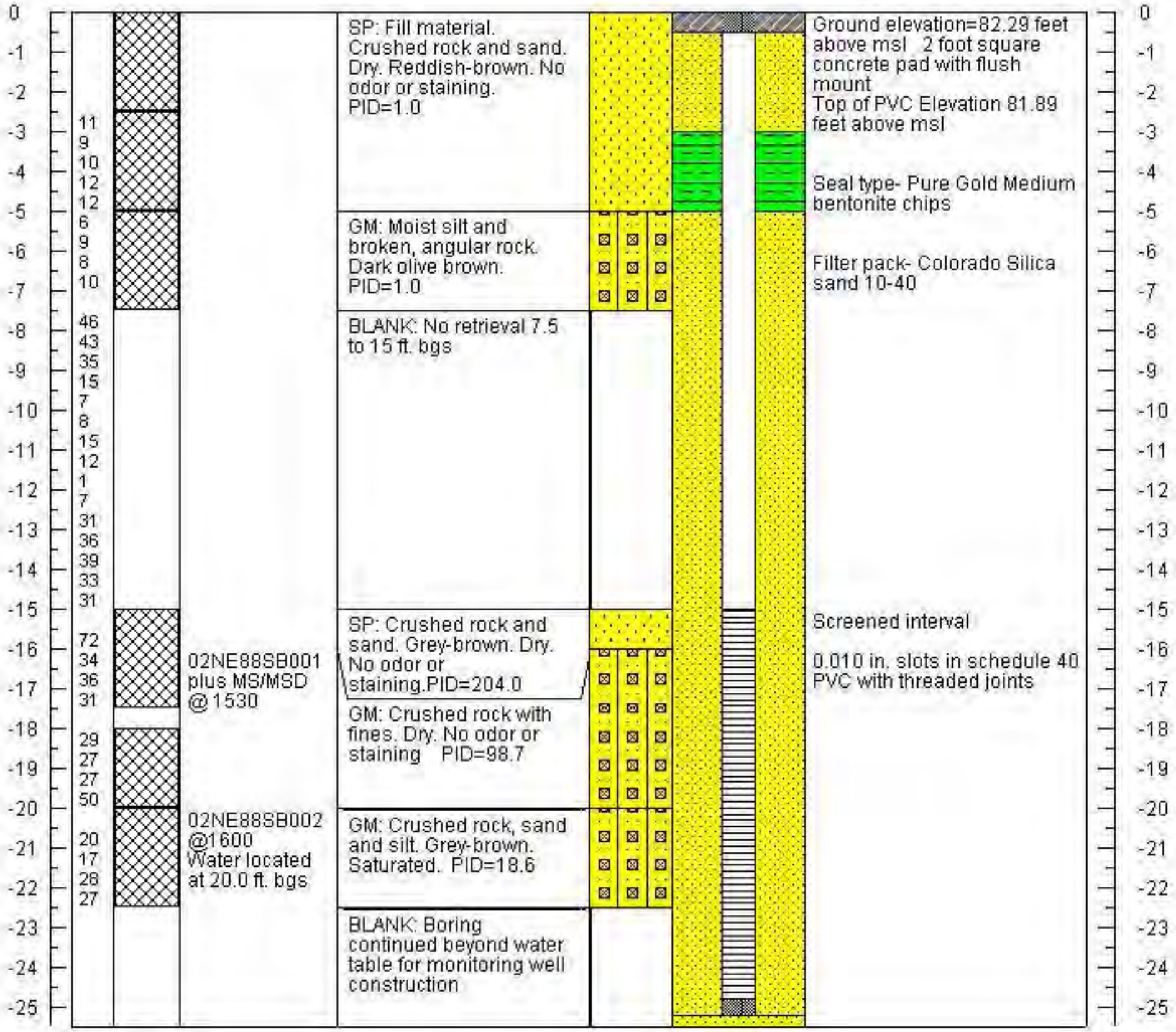
Boring Size- 8.25 in | AK State Plane Coordinates- 96392.8914 / 98080.4492 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 22.5 ft | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 82.29 ft



Boring # - MW 88-3 | Project- NEC Phase III RI | Client- USACE | Date- 8/15/02

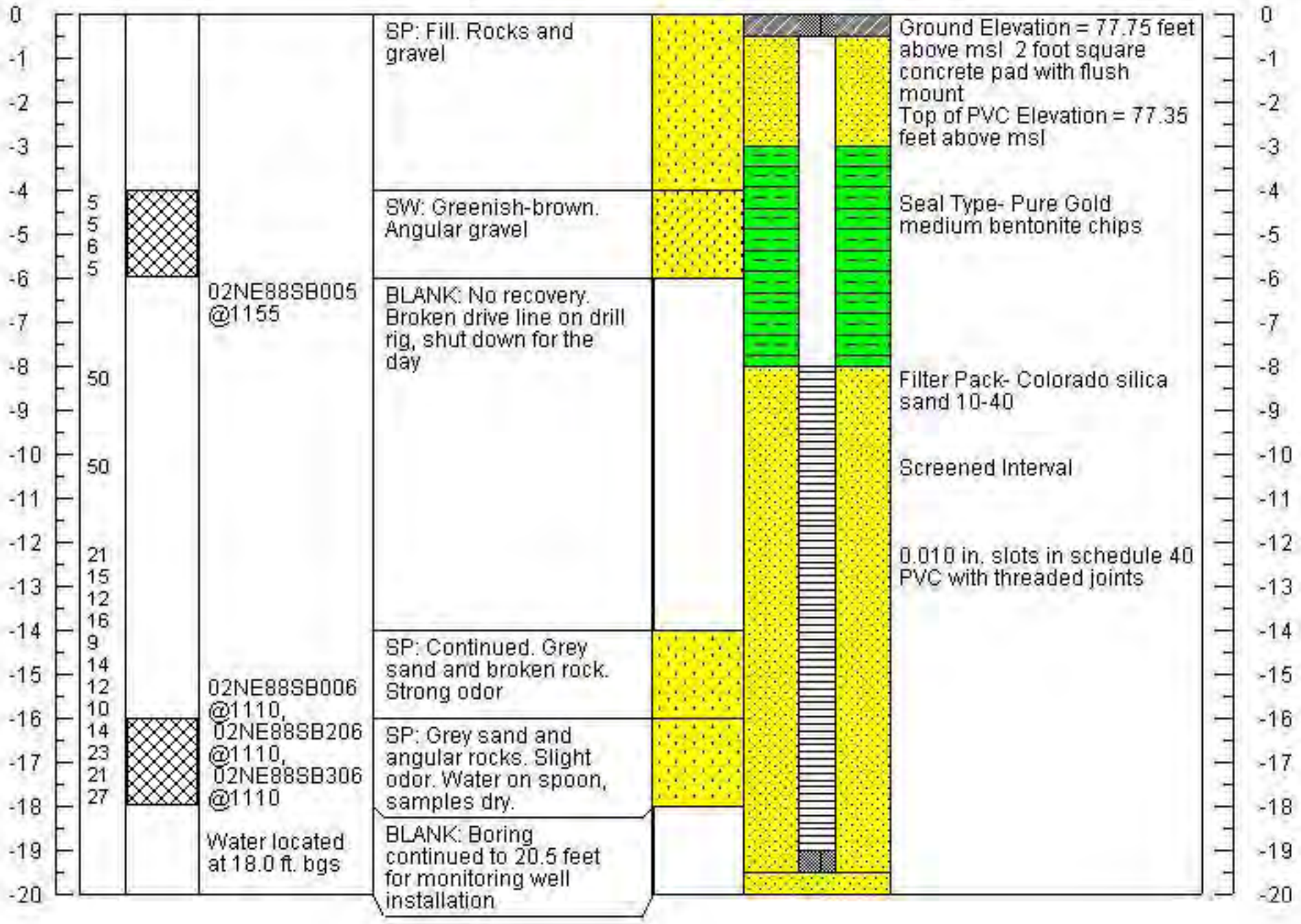
Boring Size- 8.25 in | AK State Plane Coordinates- 96458.3585 / 98169.9401 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 20 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 77.75 ft.



Boring # - MW 88-10 | Project- NEC Phase III RI | Client- USACE | Date- 8/19/02

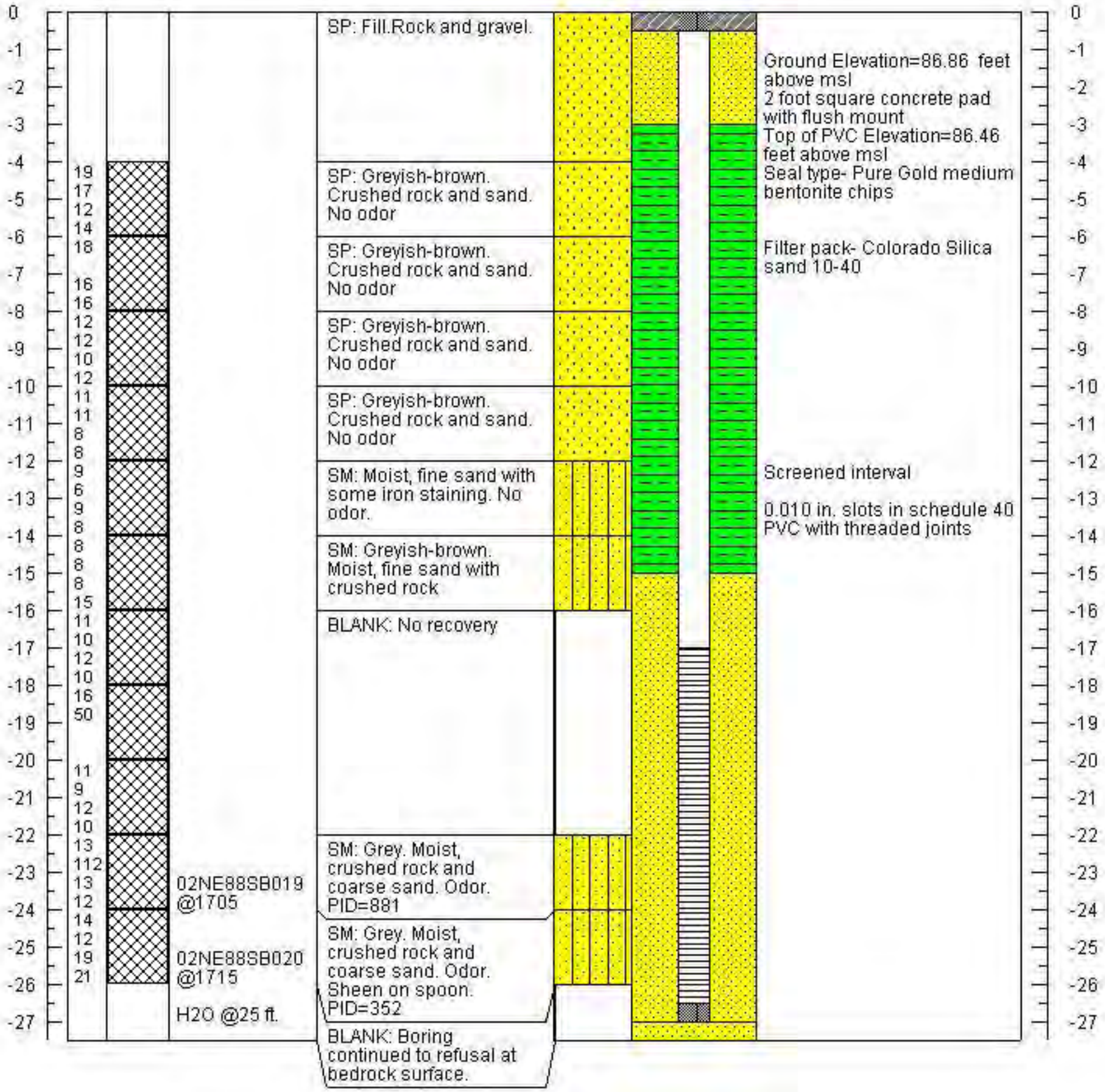
Boring Size- 8.25 in | AK State Plane Coordinates- 96293.0099 / 97970.2989 Northing / Easting

Drilling Method- Hollow Stem Augur

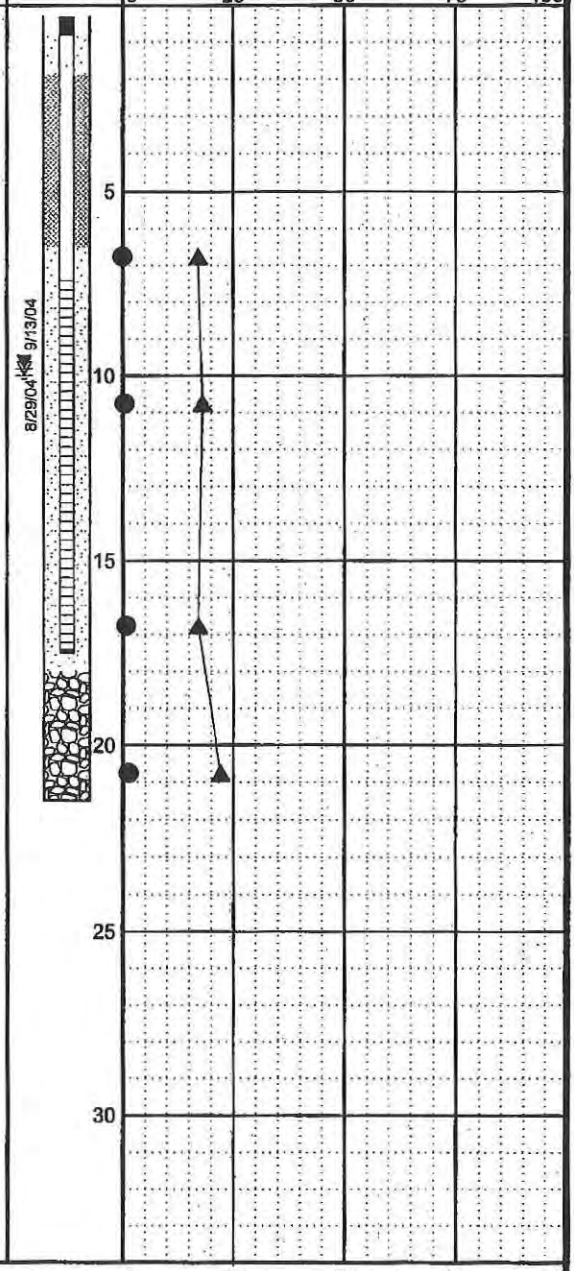
Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 27.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 86.86 ft.



MATERIAL DESCRIPTION	Depth, Ft.	Samples
Coordinates: N: 98,153 E: 95,666 Elevation: 71.5 Ft.		
Loose, brown, gravelly COBBLES; moist [Fill]		
Soft, brown, silty PEAT; moist	1.0	
Medium dense, redish brown, slightly silty, gravelly SAND; with cobbles; moist	2.5	17SB101
Medium dense, gray, silty, sandy GRAVEL; wet	10.0	17SB102
Medium dense, brown, sandy GRAVEL; with cobbles; wet - suspected frozen at 20 ft.	11.0	S3
	20.0	17SB103
Bottom of Boring Boring Completed 8/29/04 Boring advanced with Tubex air/rotary	21.5 21.5	



LEGEND

- * Sample Not Recovered
- 3" O.D. Split Spoon Sample
- B Auger Cuttings
- Frozen
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- Ground Water Level At Time Of Drilling
- Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated above, is for the date specified and may vary.

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 17MW1

June 2005 | 32-1-16821

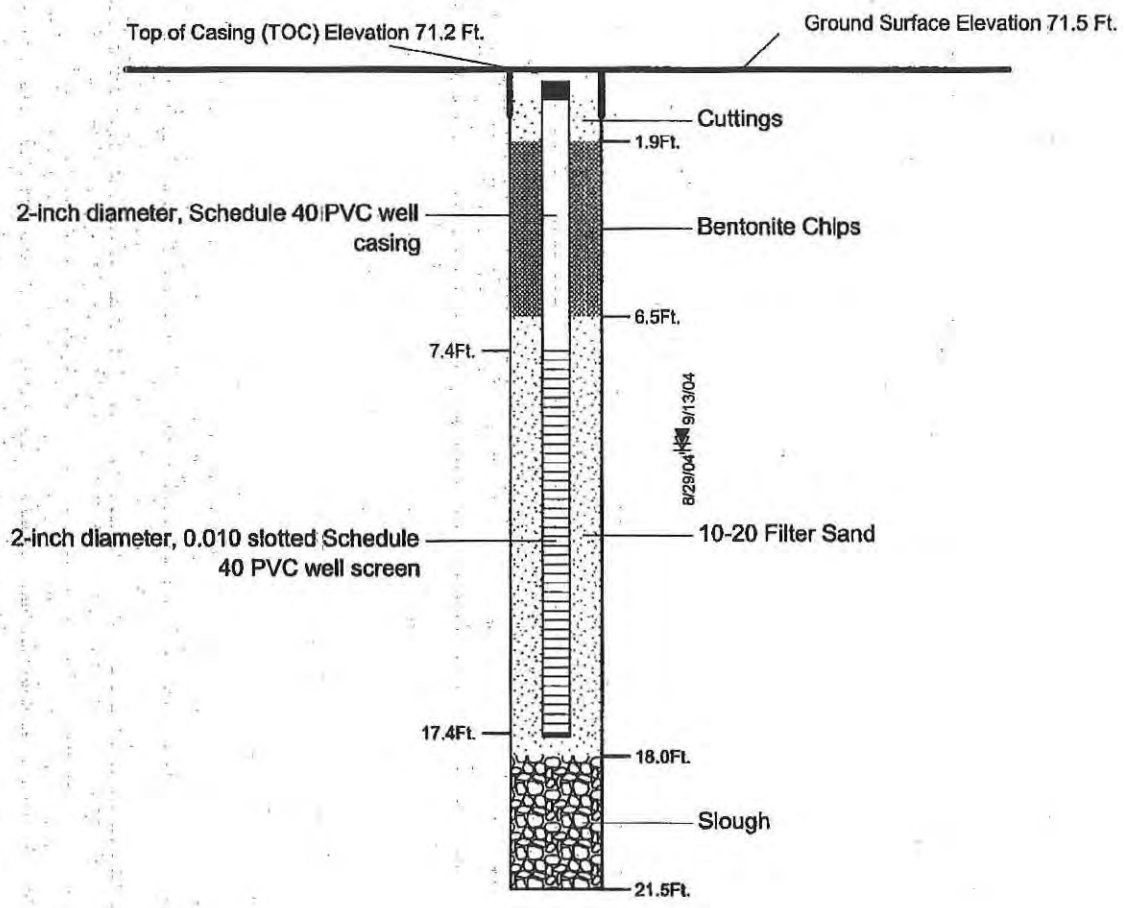
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-13a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W GEO1.GDT 6/22/05

Coordinates: N: 98,153 E: 95,666

Casing Description | **Backfill Description**



LEGEND

- ▽ Ground Water Level ATD
- ▼ Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

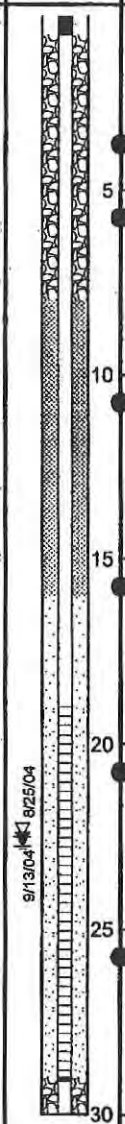
MONITORING WELL 17MW1
CONSTRUCTION DETAIL

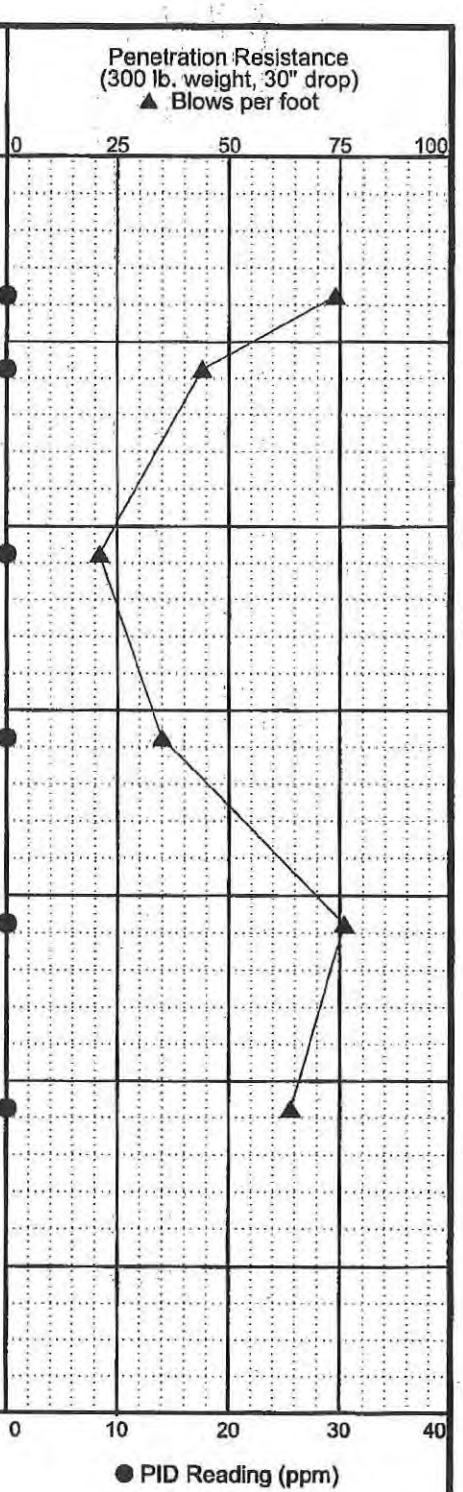
June 2005 | 32-1-16821

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-13b

MATERIAL DESCRIPTION	Depth, Ft.	Samples
Coordinates: N: 97,854 E: 96,208 Elevation: 89.36 Ft.		
Brown, silty coarse GRAVEL and cobbles; moist	1.0	
Dense to very dense, brown, slightly silty, sandy angular GRAVEL and cobbles; moist		20SB101 S2
Medium dense to dense, brown/redish brown, silty, gravelly SAND to gravelly, silty SAND and cobbles; moist	10.0	20SB102
20SB104: 19% Gravel, 55% Sand, 25% Fines		20SB104
Very dense, brown, silty, gravelly SAND and cobbles; moist wet at 22.5 ft. frozen suspected at 24.5 ft.	20.0	20SB103
1-inch lense of gray sandy silt between angular gravel/fractured rock at 26.3 ft.	24.5	S6
Bottom of Boring Boring Completed 8/25/04 Boring advanced with Tubex air/rotary	30.0 30.0	





LEGEND

- • Sample Not Recovered
- 3" O.D. Split Spoon Sample
- B Auger Cuttings
- ■ Frozen
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- ▽ Ground Water Level At Time Of Drilling
- ▼ Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
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Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 20MW1

June 2005 | 32-1-16821

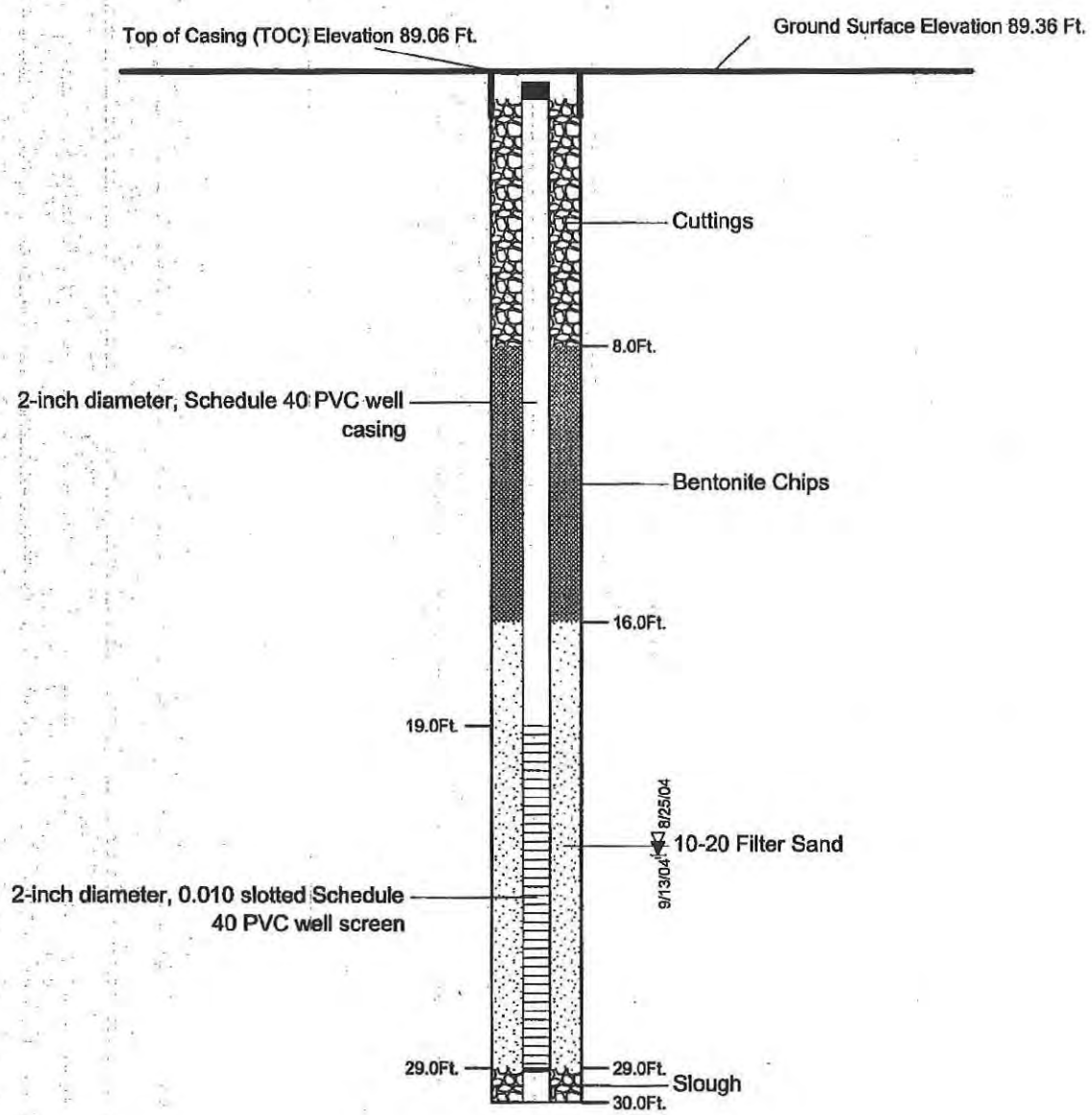
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-16a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W GEO1.GDT 6/22/05

Coordinates: N: 97,854 E: 96,208

Casing Description | **Backfill Description**



LEGEND

▽ Ground Water Level ATD

▼ Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

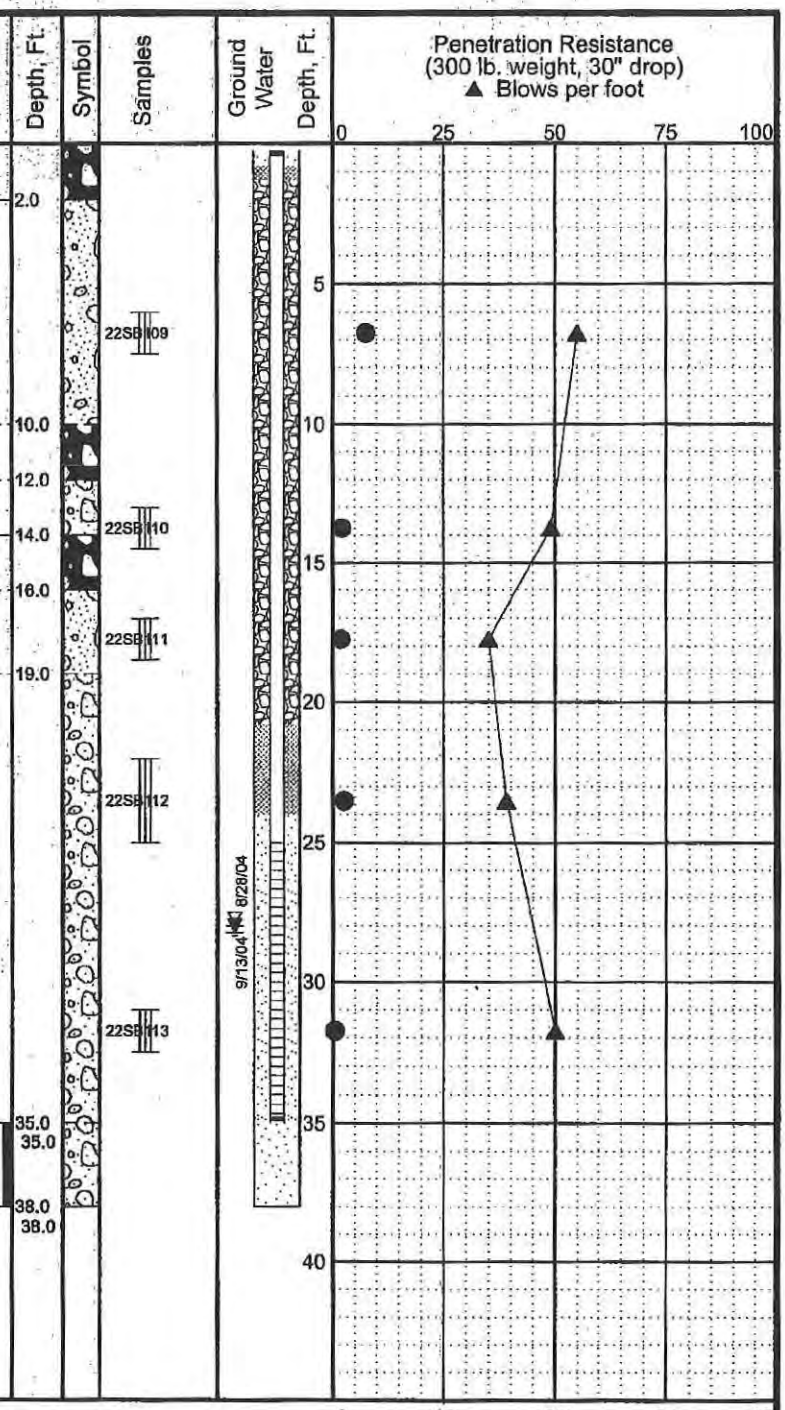
MONITORING WELL 20MW1
CONSTRUCTION DETAIL

June 2005 | 32-1-16821

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-16b

MATERIAL DESCRIPTION Coordinates: N: 97,587 E: 96,081 Elevation: 94.02 Ft.	Depth, Ft.
Cobble and boulder FILL with concrete and steel	2.0
Very dense, brown to gray, gravelly SAND and cobbles; dry to moist, slight hydrocarbon odor and staining at 7.4 ft.	
Boulder	10.0
Dense, brown to gray, silty, sandy GRAVEL and cobbles; moist	12.0
Boulder	14.0
Dense, brown, gravelly SAND; moist	16.0
Dense, brown, slightly silty, sandy GRAVEL and cobbles; moist to wet. Marginal water contact at 22 ft., better water at 28 ft., frozen ground first suspected at 30 ft.	19.0
Brown, slightly silty, sandy GRAVEL and cobbles; Frozen	35.0 35.0
	38.0 38.0
Bottom of Boring Boring Completed 8/28/04 Boring advanced with Tubex air/rotary	



LEGEND

- * Sample Not Recovered
- 3" O.D. Split Spoon Sample
- B Auger Cuttings
- Frozen
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- Ground Water Level At Time Of Drilling
- Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
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Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 22MW2

June 2005 | 32-1-16821

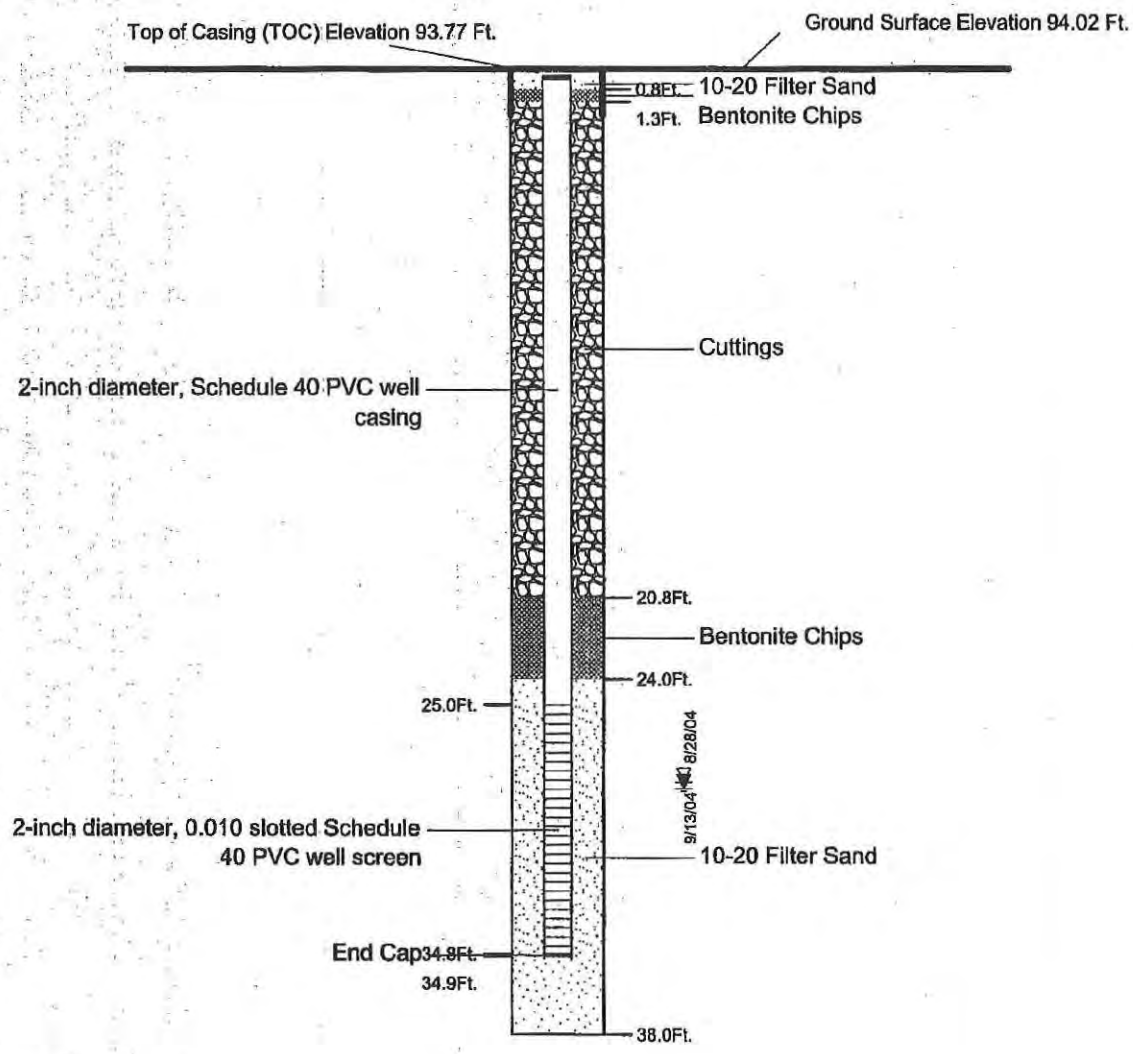
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-18a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W GEO1.GDT 6/22/05

Coordinates: N: 97,587 E: 96,081

Casing Description | **Backfill Description**



LEGEND

- ▽ Ground Water Level ATD
- ▼ Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

MONITORING WELL 22MW2
CONSTRUCTION DETAIL

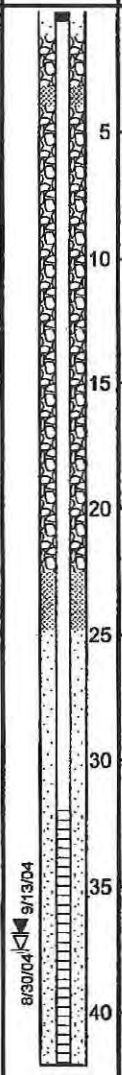
June 2005 | 32-1-16821

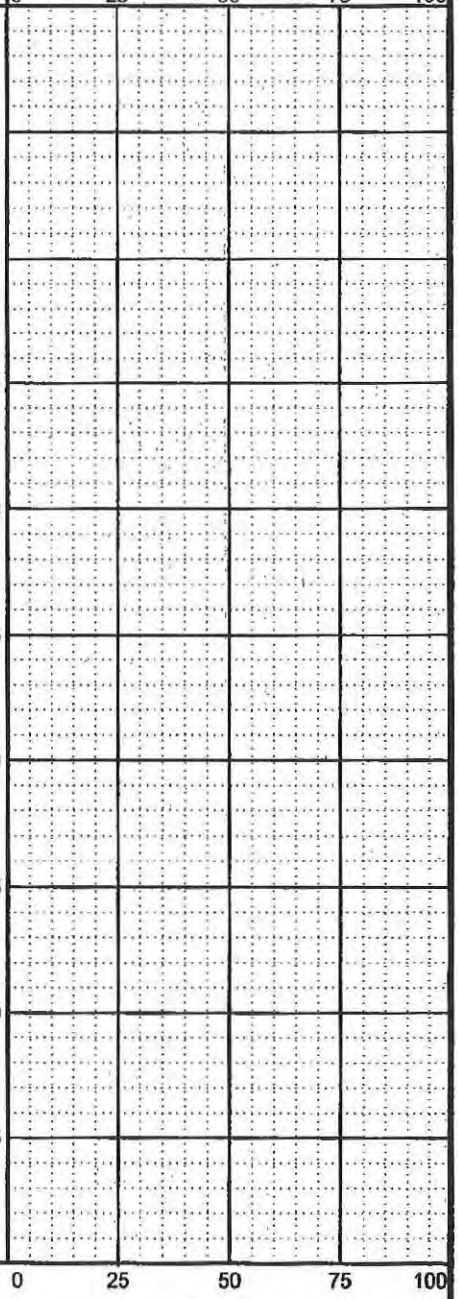
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-18b

MATERIAL DESCRIPTION Coordinates: N: 97,608 E: 96,561 Elevation: 107.62 Ft.	Depth, Ft.
Lithology based on cuttings and drill action. Brown, silty, sandy GRAVEL and cobbles; moist [Fill]	
Dk. brown, silty fine SAND; moist	6.0
Dk. brown, silty, sandy GRAVEL; moist; with organics (orginal top soil)	7.0
Lt. reddish brown, slightly silty, sandy GRAVEL and cobbles; moist	11.0
Increased silt content	16.0
Brown, slightly silty, sandy GRAVEL and cobbles; moist	18.0
Rocks	22.0
Brown, slightly silty, sandy GRAVEL to gravelly SAND and cobbles; moist	28.0
Brown, gravelly SAND and cobbles; moist to wet. Drill action similar to frozen ground	35.0
Mostly rock chips; wet	37.5
	40.0
	42.0
Bottom of Boring Boring Completed 8/30/04 Boring advanced with Tubex air/rotary	42.0

Symbol | Samples | Ground Water | Depth, Ft.





LEGEND

- * Sample Not Recovered
- III 3" O.D. Split Spoon Sample
- B Auger Cuttings
- ▮ Frozen
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- ▽ Ground Water Level At Time Of Drilling
- ▼ Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
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Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 26MW1

June 2005 | 32-1-16821

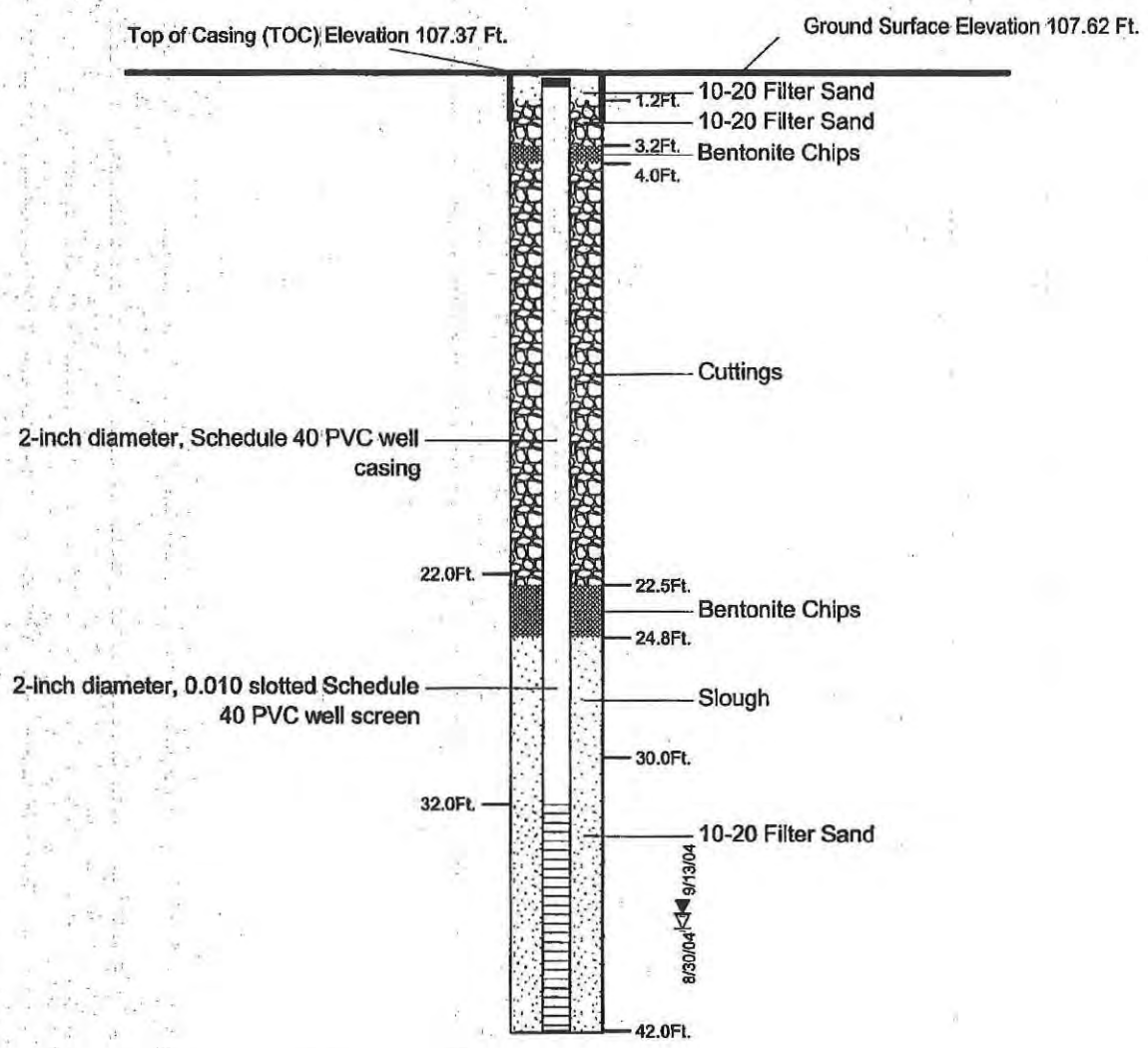
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-20a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W-GEO1.GDT 6/22/05

Coordinates: N: 97,608 E: 96,561

Casing Description **Backfill Description**



LEGEND

- Ground Water Level ATD
- Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

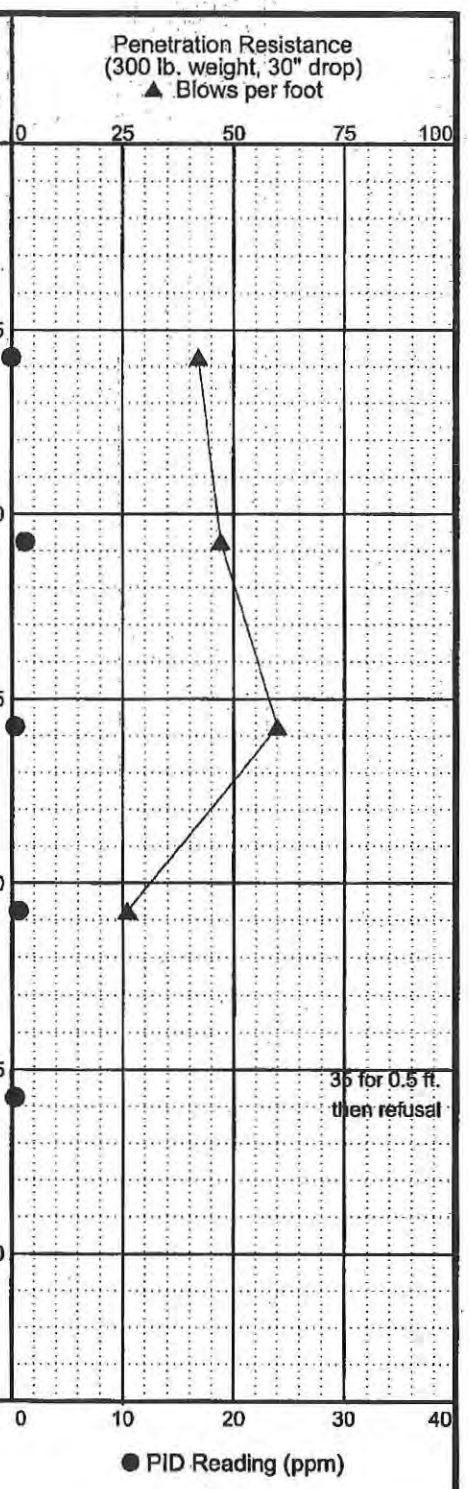
MONITORING WELL 26MW1
CONSTRUCTION DETAIL

June 2005 32-1-16821

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-20b

MATERIAL DESCRIPTION Coordinates: N: 97,784 E: 95,838 Elevation: 83.29 Ft.	Depth, Ft.	Symbol	Samples	Ground Water	Depth, Ft.
Brown, silty, gravelly SAND and cobbles; moist [Fill]					
Dense, lt. brown, silty, gravelly SAND to silty GRAVEL and cobbles; moist	5.0		18SB101 S2 18SB102		5 10 15
Dense, brown, silty, gravelly SAND to silty GRAVEL and cobbles; wet	19.0		S4 18SB103	8/24/04 9/13/04	20 25
Bottom of Boring Boring Completed 8/24/04 Boring advanced with Tubex air/rotary	26.5				30



LEGEND

- * Sample Not Recovered
- 3" O.D. Split Spoon Sample
- B Auger Cuttings
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- Ground Water Level At Time Of Drilling
- Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated above, is for the date specified and may vary.

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 18MW1

June 2005 | 32-1-16821

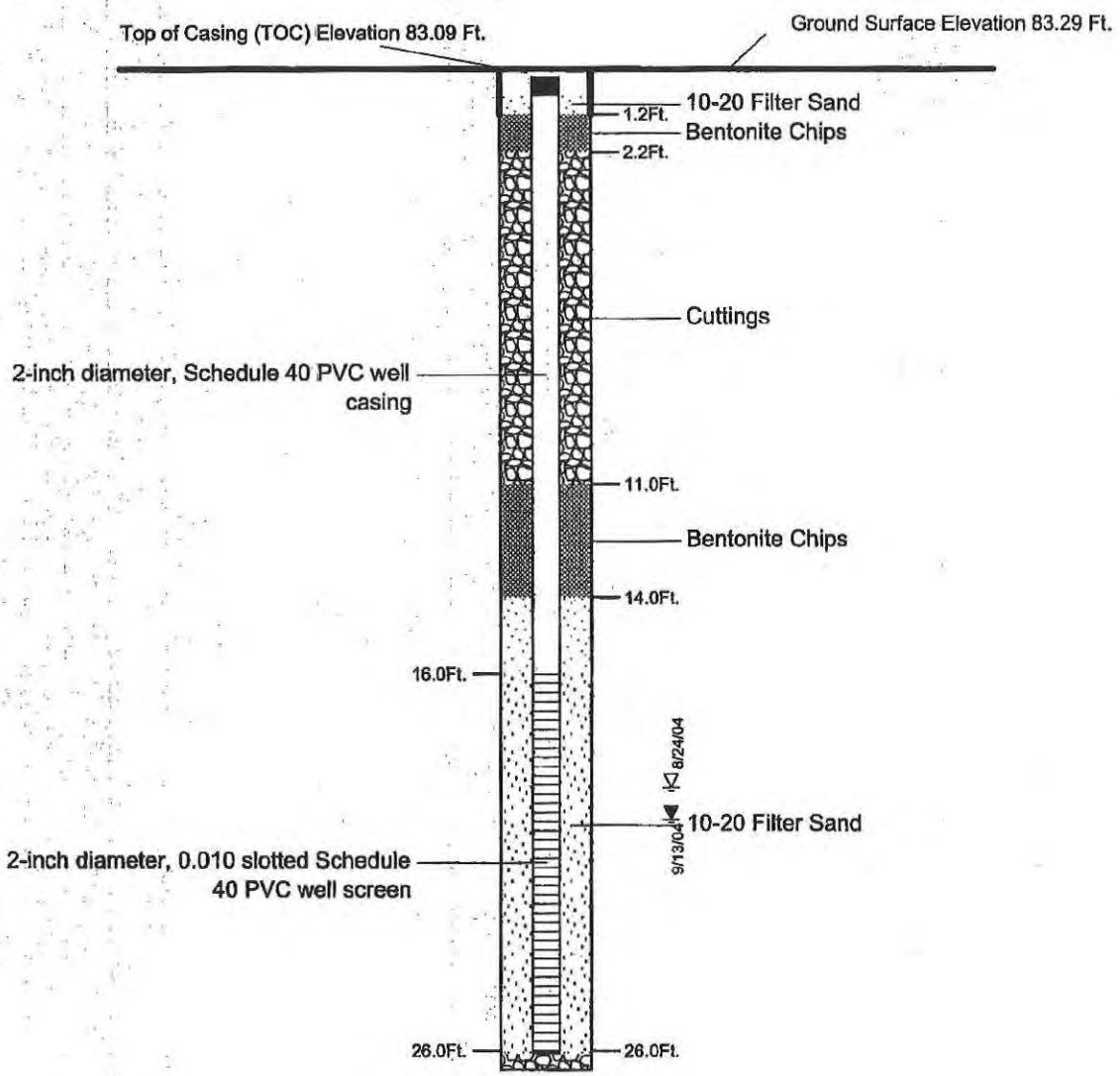
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-14a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W GEO1.GDT 6/22/05

Coordinates: N: 97,784 E: 95,838

Casing Description | **Backfill Description**



LEGEND

- ▽ Ground Water Level ATD
- ▼ Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

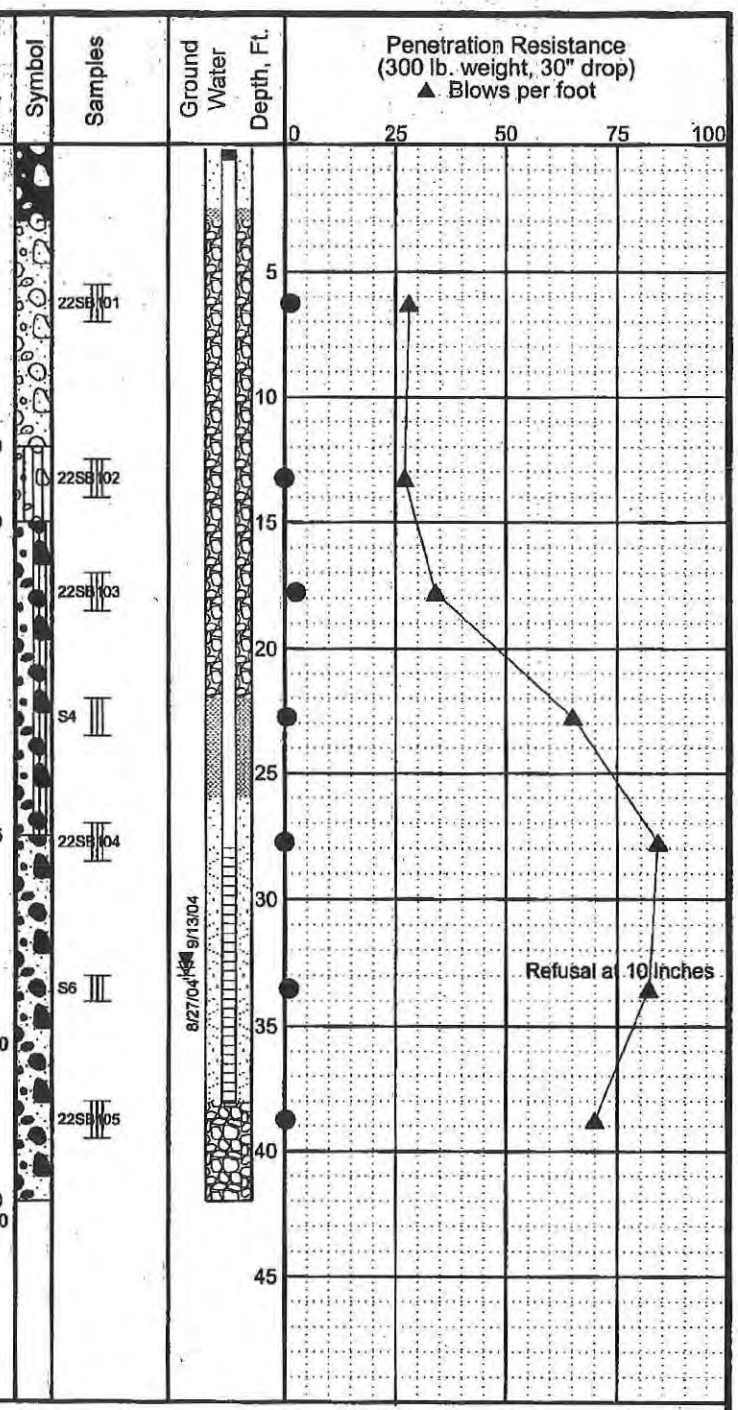
MONITORING WELL 18MW1
CONSTRUCTION DETAIL

June 2005 | 32-1-16821

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-14b

MATERIAL DESCRIPTION Coordinates: N: 97,538 E: 96,208 Elevation: 99.51 Ft.	Depth, Ft.
Gravelly COBBLES; moist [Fill]	
Medium dense, brown, silty, sandy GRAVEL and cobbles; moist. 22SB101: 45% Gravel, 25% Sand, 31% Fines	3.0
Dense, grayish brown, sandy, gravelly SILT and cobbles; moist	12.0
Dense to very dense, redish brown, sandy, silty GRAVEL and cobbles; moist. Minor water at 22.5 ft.	15.0
Very dense, brown, silty, sandy GRAVEL and cobbles; water at 32 to 33 ft. Suspected frozen at 34 ft., confirmed frozen ground at 38 ft.	27.5 35.0
Bottom of Boring Boring Completed 8/27/04 Boring advanced with Tubex air/rotary	42.0 42.0



LEGEND

- * Sample Not Recovered
- 3" O.D. Split Spoon Sample
- B Auger Cuttings
- Frozen
- Surface Seal
- Solid Casing and Annular Seal
- Well Casing and Filter Sand
- Cuttings Backfill
- Ground Water Level At Time Of Drilling
- Static Water Level

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated above, is for the date specified and may vary.

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

LOG OF BORING 22MW3

June 2005 | 32-1-16821

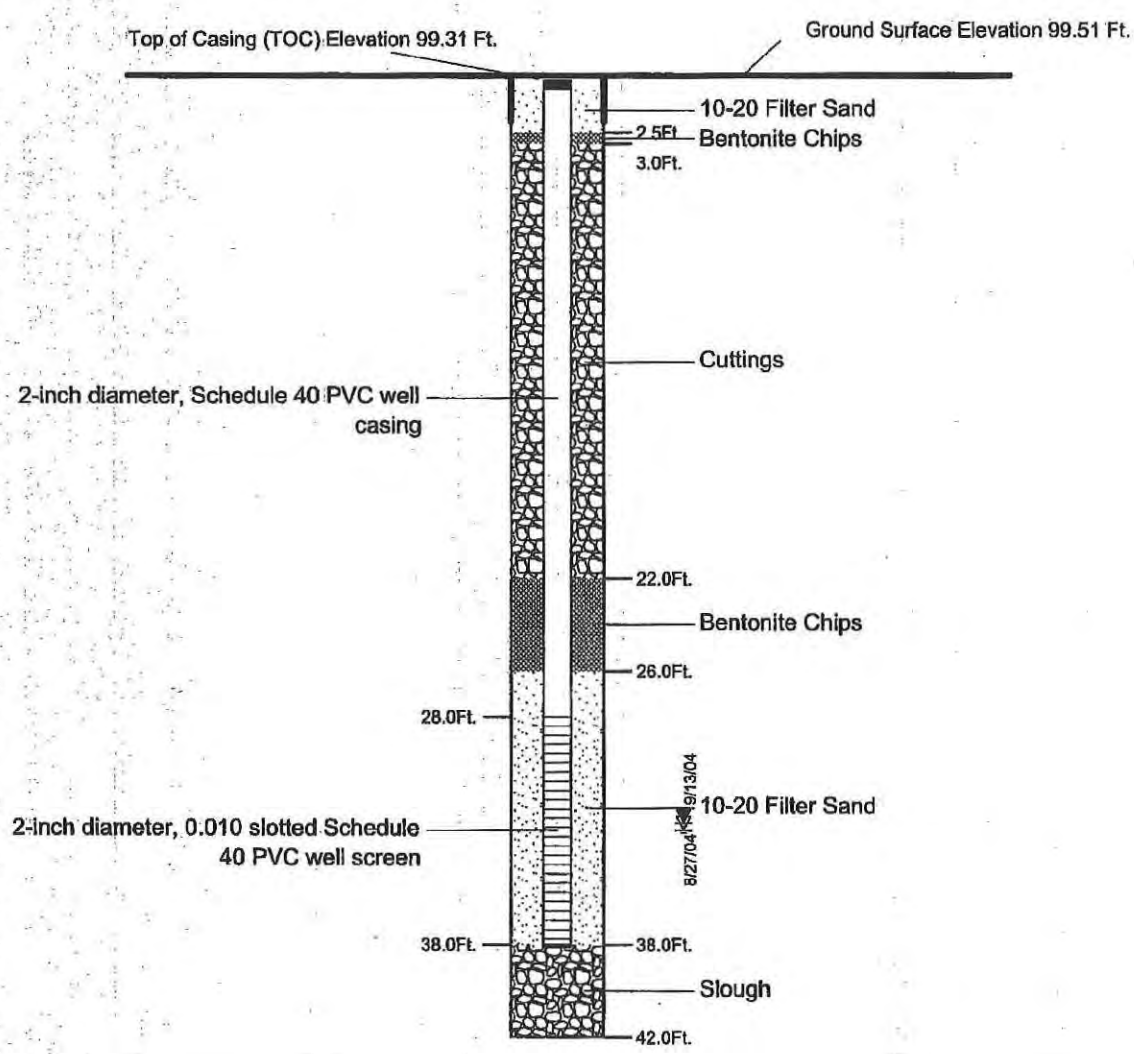
SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-19a

ENVIRONMENTAL LOG 16821DRILLF.GPJ S&W GEO1.GDT 6/22/05

Coordinates: N: 97,538 E: 96,208

Casing Description **Backfill Description**



LEGEND

- ▽ Ground Water Level ATD
- ▼ Static Ground Water Level

NOTES: Cover is cast iron set in concrete
Top cap is locking expansion plug with padlock
Joints are machine threaded
Botton cap is friction fit

Phase IV RI, Northeast Cape
St. Lawrence Island, Alaska

MONITORING WELL 22MW3
CONSTRUCTION DETAIL

June 2005 32-1-16821

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

Fig. B-19b

Boring # - MW 88-4 | Project- NEC Phase III RI | Client- USACE | Date- 8/14/02

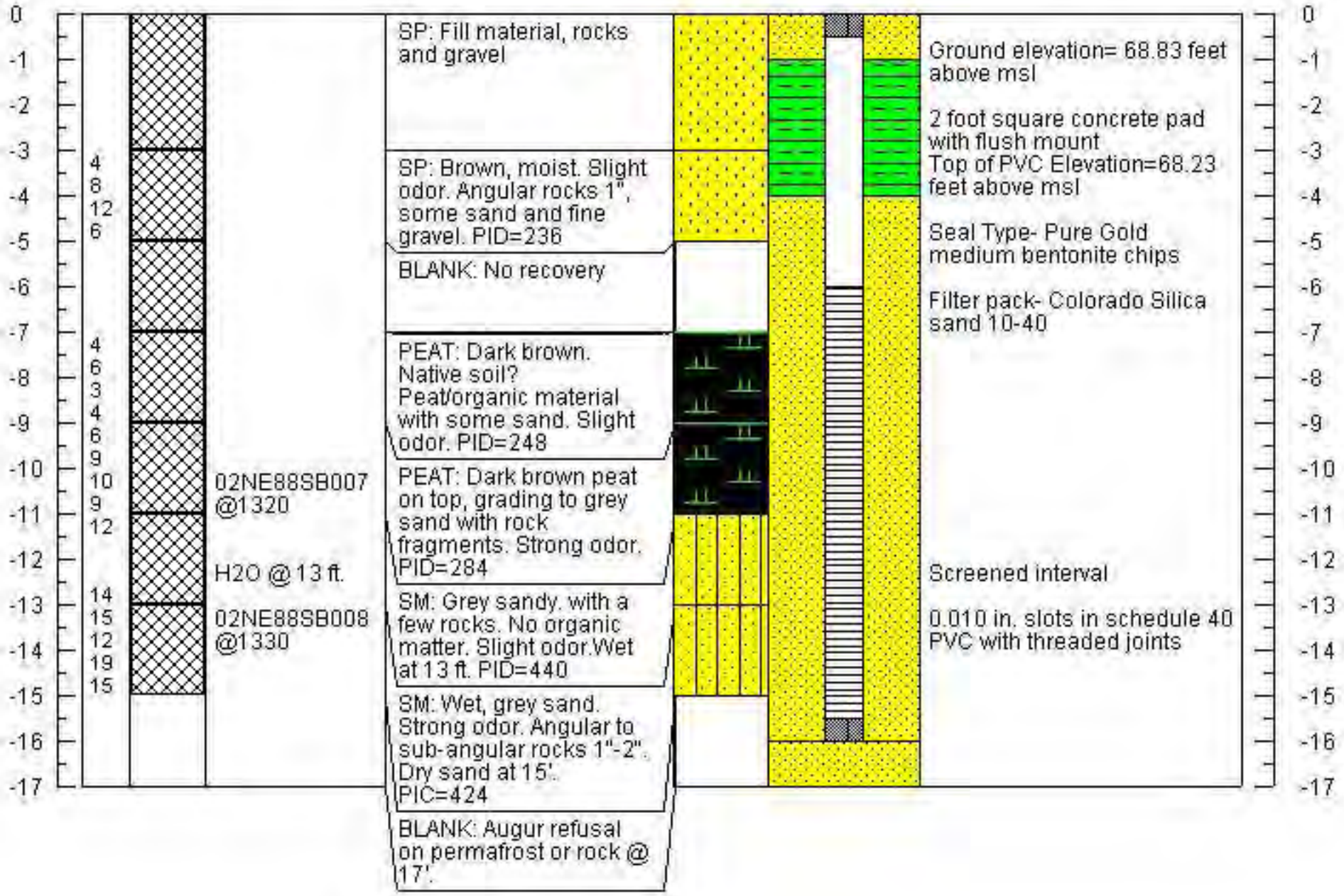
Boring Size- 8.25 in | AK State Plane Coordinates- 96331.1320 / 98365.8078 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 17 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 68.63 ft.



Boring # - MW 88-5 | Project- NEC Phase III RI | Client- USACE | Date- 8/17/02

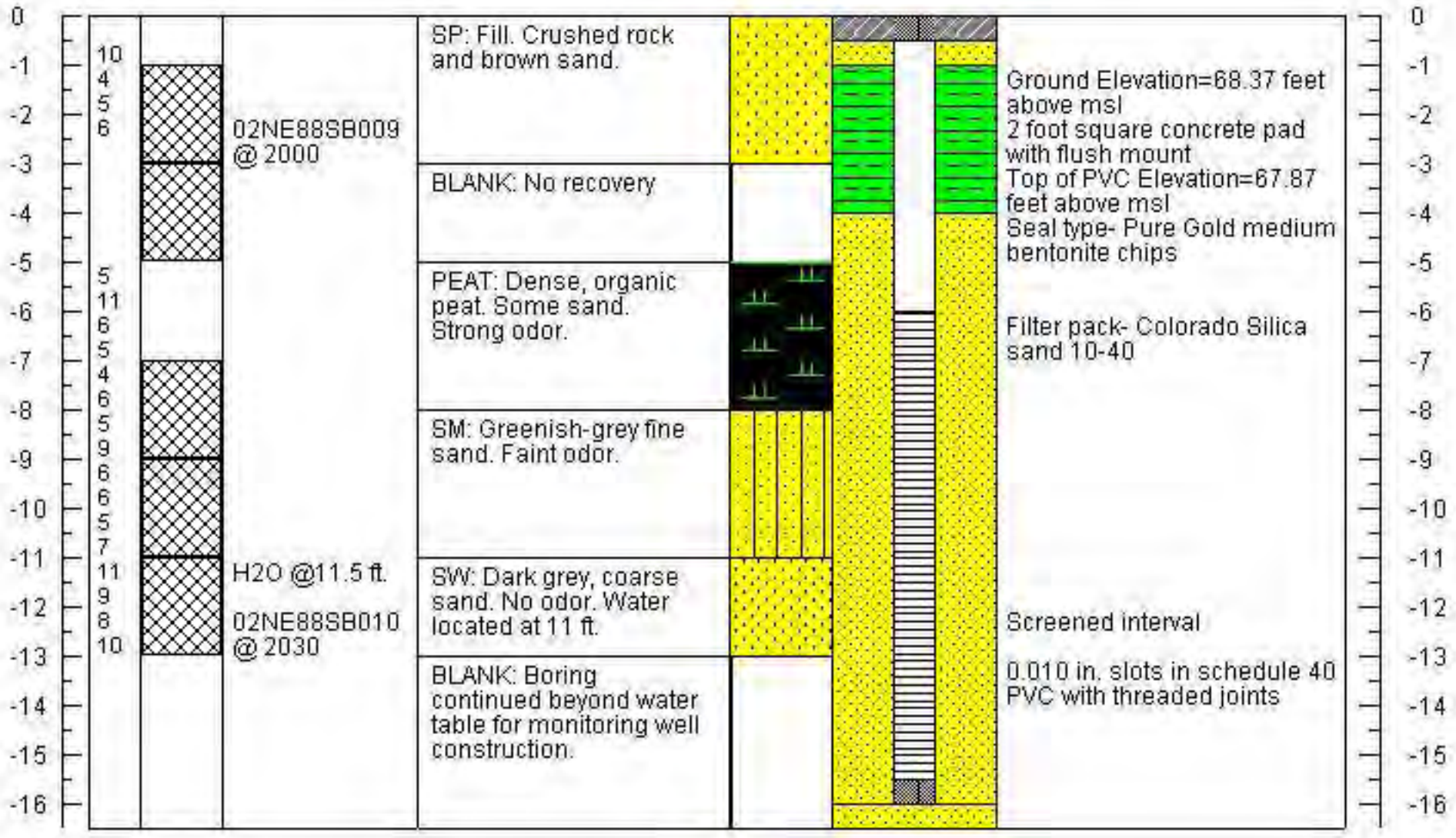
Boring Size- 8.25 in | AK State Plane Coordinates- 96216.7210 / 98292.1088 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 16.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 68.37 ft.



APPENDIX F

Waste Documentation
(provided on CD)

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 242252

Customer Name BRISTOL CONSTRUCTION BRISTOL
Ticket Date 12/03/2014
Payment Type Credit Account
Manual Ticket# 814003
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1065810R (SCRAP METAL, WOOD, RUBBER, CONCRETE-CM^BRISTOL ENVIRONMENTAL^US AR
Generator OR-USACE AK DISTRICT US ARMY CORP OF ENGINEERS AK DISTRICT

Carrier 6000
Vehicle# 6349
Container 6349
Billing # 0001102
Manifest NEC02
PO

Volume

	Time	Scale	Operator	Inbound		
In	11/19/2014 12:52:39	Front Scale	SMastrio		Gross	8500 lb*
Out	12/03/2014 12:52:39		SMastrio		Tare	5600 lb*
					Net	2900 lb
			* Manual Weight		Tons	1.45

Comments Rental 7/2-11/19 = 140 days

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	1.45	Tons				AK-SAVOOGN
2	FEA T SPW-FUEL,ENV	100	1.45	Tons				AK-SAVOOGN
3	LINER SPW-LINER UN	100	1	Each				AK-SAVOOGN
4	MAN FEE SPW-MANIFE	100	1	Each				AK-SAVOOGN
5	RENT SPW DAILY-CAN	100	140	Each				AK-SAVOOGN
6	FROM BARGE SPW-TRU	100	1	Load				AK-SAVOOGN
7	RAIL U SPW-RAIL UN	100	1	Load				AK-SAVOOGN

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

№ 814003

2014 DEZ 3 AM 7:28:21

DATE:/TIME:
LOAD DATE:
CUSTOMER: Bristol Const. / USNCE
PROFILE NUMBER: 106581 OR
TRUCK NUMBER:
TRAILER/CONTAINER NUMBER: 6349
SEAL NUMBER:
CUSTOMER INVOICE NO.: NEC 02

GROSS WEIGHT: 8,500
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 5,600
NET WEIGHT: 2,900

GATEHOUSE: OR
DRIVER: Arnold
TRAIN ID: USCGL 18 ORIGIN:
WASTE TYPE: Scrap metal, wood + Rubb
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS:
Rental 7/2-11/17 140 days

HAULER:

902-ARLINGTON

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. AK0000228395

Manifest Document No. NEC02

2. Page 1 of 1

3. Generator's Name and Mailing Address
USACE, AK DISTRICT, NE CAPE
P.O. BOX 6898, CEPOA-EN-EE-ER (PALMER)
JBER AK 99506-6898
Att: VALERIE PALMER

4. Generator's Phone (907) 753-2578

NE Cape, St. Lawrence Island
SAVOONGA AK 99769

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.
6. US EPA ID Number: WAH000011486
A. State Transporter's ID
B. Transporter 1 Phone 800 426-3113

7. Transporter 2 Company Name: R TRANSPORT
8. US EPA ID Number: WAH000028338
C. State Transporter's ID
D. Transporter 2 Phone 425 508-2697

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL & RECYCLING CEN
18177 CEDAR SPRINGS LANE
ARLINGTON OR 97812
10. US EPA ID Number: ORD089452353
E. State Facility's ID
F. Facility's Phone 541 454-2030

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY D.O.T. (SCRAP METAL/CONSTRUCTION DEBRIS)	001	CM	9260	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a. 1. 106581OR - METAL/CONST DEBRIS
b.
c.
d.
Container #: WMXU 6349

H. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
Please send original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Russell James
Signature
Date: Month Day Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: X Nick Keeler
Signature
Date: Month 11 Day 08 Year 2014

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shane Bruce
Signature
Date: Month 11 Day 17 Year 14

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Sarah Mastriano
Signature: Sarah Mastriano
Date: Month 12 Day 03 Year 14

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number AK0000228395	20. Page 2 of 2	21. Waste Tracking Number NEC02

22. Generator's Name USACE, AK DISTRICT, NE CAPE

23. Transporter 3 Company Name UNION PACIFIC RAILROAD — U.S. EPA ID Number NED001792910

24. Transporter 4 Company Name COLUMBIA RIDGE LANDFILL — U.S. EPA ID Number ORD089452353

25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.

29. Special Handling Instructions and Additional Information
Please send original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

GENERATOR

TRANSPORTER

30. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Cindi B. Crespo (yp)	Cindi Crespo	11	17	14

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Sarah Mastriona	Sarah Mastriona	11	19	14

DESIGNATED FACILITY

32. Discrepancy

WASTE MANAGEMENT

COLUMBIA RIDGE LANDFILL & RECYCLING CENTER
18177 Cedar Springs Lane
Arlington, OR 97812
541 454 2030
541 454 3312 Fax

December 5, 2014

Bristol Construction
111 W. 16th Ave, Suite 301
Anchorage, AK 99501

CERTIFICATE OF DISPOSAL

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material from US Army Corps on behalf of Bristol Construction.

Date of Disposal:	December 3, 2014
Profile #:	106581OR
Manifest #:	NEC02
Container #:	WMXU6349
Weight Disposed:	2900 lbs.
Waste Type:	Scrap Metal, Wood, & Rubber

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Sarah Mastriona

Sarah Mastriona
Special Waste Scale Clerk

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 242255

Customer Name BRISTOL CONSTRUCTION BRISTOL
Ticket Date 12/09/2014
Payment Type Credit Account
Manual Ticket# 814001
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1065810R (SCRAP METAL, WOOD, RUBBER, CONCRETE-CN^BRISTOL ENVIRONMENTAL^US AR
Generator OR-USACE AK DISTRICT US ARMY CORP OF ENGINEERS AK DISTRICT

Carrier 6000
Vehicle# 6219
Container 6219
Billing # 0001102
Manifest MEC05
PO

Volume

	Time	Scale	Operator	Inbound		
In	11/19/2014 11:59:09	Front Scale	SMastrio		Gross	20200 lb*
Out	12/09/2014 11:59:09		SMastrio		Tare	5600 lb*
					Net	14600 lb
			* Manual Weight		Tons	7.30

Comments Rental 7/2-11/19 = 140 days

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	7.30	Tons				AK-SAVOOGN
2	FEA T SPW-FUEL,ENV	100	7.30	Tons				AK-SAVOOGN
3	LINER SPW-LINER UN	100	1	Each				AK-SAVOOGN
4	MAN FEE SPW-MANIFE	100	1	Each				AK-SAVOOGN
5	RENT SPW DAILY-CAN	100	140	Each				AK-SAVOOGN
6	FROM BARGE SPW-TRU	100	1	Load				AK-SAVOOGN
7	RAIL U SPW-RAIL UN	100	1	Load				AK-SAVOOGN

WASTE MANAGEMENT

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

Nº 814001

DATE:/TIME: 2014 DEZ 3 PM 2:38:04
LOAD DATE:
CUSTOMER: Bristol Const. / USACE
PROFILE NUMBER: 106581OR
TRUCK NUMBER:
TRAILER/CONTAINER NUMBER: 6219
SEAL NUMBER:
CUSTOMER INVOICE NO.: NEC 05

GROSS WEIGHT: 20,200
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 5,600
NET WEIGHT: 14,600

GATEHOUSE: VKS
DRIVER: Mike
TRAIN ID: USEAL 18 ORIGIN:
WASTE TYPE: Scrap Metal, Wood & Rubber
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS:

Rental 7/2 - 11/19 = 140 days

HAULER: RT

902-ARLINGTON

NON-HAZARDOUS WASTE MANIFEST (ORIGINAL)

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. AK0000228395

Manifest Document No. NEC05 ~~NEC01~~ 2. Page 1 of 2

3. Generator's Name and Mailing Address
USACE, AK DISTRICT, NE CAPE
P.O. BOX 6898, CEPOA-EN-EE-ER (PALMER)
JBER AK 99506-6898
Att: VALERIE PALMER

NE Cape, St. Lawrence Island
SAVOONGA AK 99769

4. Generator's Phone (907) 753-2578

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.
6. US EPA ID Number: WAH000011486
A. State Transporter's ID
B. Transporter 1 Phone: 800 426-3113

7. Transporter 2 Company Name: R TRANSPORT
8. US EPA ID Number: WAH000028338
C. State Transporter's ID
D. Transporter 2 Phone: 425 508-2697

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL & RECYCLING CEN
18177 CEDAR SPRINGS LANE
ARLINGTON OR 97812
10. US EPA ID Number: ORD089452353
E. State Facility's ID
F. Facility's Phone: 541 454-2030

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY D.O.T. (SCRAP METAL/CONSTRUCTION DEBRIS)	001	CM	20320	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a. 1. 106581OR - METAL/CONST. DEBRIS
b.
c.
d.

Container #: WMXU6219

H. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
Please send original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Russell James
Signature: [signature]
Date: Month Day Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: X Alex Blasich
Signature: X A Blasich
Date: Month 11 Day 14 Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shane Bruce
Signature: [signature]
Date: Month 11 Day 17 Year 14

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Sarah Mastriona
Signature: Sarah Mastriona
Date: Month 12 Day 09 Year 14

NON-HAZARDOUS WASTE

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ORIGINAL

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number	20. Page	21. Waste Tracking Number
	AK0000228395	2 of 2	NEC05 ~~NEC01~~ RJ

22. Generator's Name

USACE, AK DISTRICT, NE CAPE

23. Transporter 3 Company Name: UNION PACIFIC RAILROAD — U.S. EPA ID Number: NED001792910

24. Transporter 4 Company Name: COLUMBIA RIDGE LANDFILL — U.S. EPA ID Number: ORD089452353

25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.

29. Special Handling Instructions and Additional Information

Please send orignal manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

30. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name: Cindi Cres — Signature: Cindi Cres — Month 11 Day 19 Year 14

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name: Sarah Mastriona — Signature: Sarah Mastriona — Month 11 Day 19 Year 14

32. Discrepancy

WASTE MANAGEMENT

COLUMBIA RIDGE LANDFILL & RECYCLING CENTER
18177 Cedar Springs Lane
Arlington, OR 97812
541 454 2030
541 454 3312 Fax

December 10, 2014

Bristol Construction
111 W. 16th Ave, Suite 301
Anchorage, AK 99501

CERTIFICATE OF DISPOSAL

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material from US Army Corps on behalf of Bristol Construction.

Date of Disposal:	December 9, 2014
Profile #:	106581OR
Manifest #:	NEC05
Container #:	WMXU6219
Weight Disposed:	14,600 lbs.
Waste Type:	Scrap Metal, Wood, & Rubber

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Sarah Mastriona

Sarah Mastriona
Special Waste Scale Clerk

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 242257

Customer Name BRISTOL CONSTRUCTION BRISTOL
Ticket Date 12/09/2014
Payment Type Credit Account
Manual Ticket# 814002
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1065810R (SCRAP METAL, WOOD, RUBBER, CONCRETE-CM^BRISTOL ENVIRONMENTAL^US AR
Generator OR-USACE AK DISTRICT US ARMY CORP OF ENGINEERS AK DISTRICT

Carrier 6000
Vehicle# 6319
Container 6319
Billing # 0001102
Manifest NEC01
PO

Volume

	Time	Scale	Operator	Inbound		
In	11/19/2014 12:00:32	Front Scale	SMastrio		Gross	6720 lb*
Out	12/09/2014 12:00:32		SMastrio		Tare	5600 lb*
					Net	1120 lb
			* Manual Weight		Tons	0.56

Comments Rental 7/2-11/19 = 140 days

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	0.56	Tons				AK-SAVOOGN
2	FEA T SPW-FUEL,ENV	100	0.56	Tons				AK-SAVOOGN
3	LINER SPW-LINER UN	100	1	Each				AK-SAVOOGN
4	MAN FEE SPW-MANIFE	100	1	Each				AK-SAVOOGN
5	RENT SPW DAILY-CAN	100	140	Each				AK-SAVOOGN
6	FROM BARGE SPW-TRU	100	1	Load				AK-SAVOOGN
7	RAIL U SPW-RAIL UN	100	1	Load				AK-SAVOOGN

Oregon Waste Systems
A Waste Management Company

18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

WASTE MANAGEMENT

Nº 814002

2014 DEC 9 PM 2:35:01

DATE:/TIME:
LOAD DATE:
CUSTOMER: Bristol Const. / USACE
PROFILE NUMBER: 1065810R
TRUCK NUMBER:
TRAILER/CONTAINER NUMBER: 6319
SEAL NUMBER:
CUSTOMER INVOICE NO.: NEC 01

GROSS WEIGHT: 6,720
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 5,600
NET WEIGHT: 1,120

GATEHOUSE: VKS
DRIVER: Rita
TRAIN ID: USEGL 18 ORIGIN:
WASTE TYPE: Scrap Metal, Wood & Rubb
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS:

Rental 7/2 - 11/19 = 140 days

HAULER: RT

902-ARLINGTON

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. AK0000228395

Manifest Document No. NEC01

2. Page 1 of 2

3. Generator's Name and Mailing Address
USACE, AK DISTRICT, NE CAPE
P.O. BOX 6898, CEPOA-EN-EE-ER (PALMER)
JBER AK 99506-6898
Att: VALERIE PALMER

NE Cape, St. Lawrence Island
SAVOONGA AK 99769

4. Generator's Phone (907) 753-2578

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.
6. US EPA ID Number: WAH000011486
A. State Transporter's ID
B. Transporter 1 Phone: 800 426-3113

7. Transporter 2 Company Name: R TRANSPORT
8. US EPA ID Number: WAH000028338
C. State Transporter's ID
D. Transporter 2 Phone: 425 508-2697

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL & RECYCLING CEN
18177 CEDAR SPRINGS LANE
ARLINGTON OR 97812
10. US EPA ID Number: ORD089452353
E. State Facility's ID
F. Facility's Phone: 541 454-2030

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY D.O.T. (SCRAP METAL/CONSTRUCTION DEBRIS)	001	CM	7 ea	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a. 1. 106581OR - METAL/CONST. DEBRIS
b.
c.
d.

Container #: WMXU 6319

H. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
Please send Original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Russell James
Signature: [signature]
Date: Month / Day / Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Laurie Ludwigson
Signature: [signature]
Date: Month 11 / Day 17 / Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shane Brussel
Signature: [signature]
Date: Month 11 / Day 17 / Year 14

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Sarah Mastrianna
Signature: [signature]
Date: Month 12 / Day 09 / Year 14

NON-HAZARDOUS WASTE

PRINTED ON RECYCLED PAPER USING SOY INK

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19. Generator ID Number	20. Page	21. Waste Tracking Number
AK00022039S	2 of 2	NEC01

22. Generator's Name: USACE, AK DISTRICT, NE CAPE

23. Transporter 3 Company Name: UNION PACIFIC RAILROAD — U.S. EPA ID Number: NED981792910

24. Transporter 4 Company Name: COLUMBIA RIDGE LANDFILL — U.S. EPA ID Number: ORD039452360

GENERATOR

25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	

29. Special Handling Instructions and Additional Information

Please send orignal manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Russell James, 111 W. 16th Avenue, Third Floor, Anchorage, Alaska, 99501

TRANSPORTER

30. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Cindi Crego	Cindi Crego	11	17	14

31. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Sarah Mastriona	Sarah Mastriona	11	19	14

DESIGNATED FACILITY

32. Discrepancy

WASTE MANAGEMENT

COLUMBIA RIDGE LANDFILL & RECYCLING CENTER
18177 Cedar Springs Lane
Arlington, OR 97812
541 454 2030
541 454 3312 Fax

December 10, 2014

Bristol Construction
111 W. 16th Ave, Suite 301
Anchorage, AK 99501

CERTIFICATE OF DISPOSAL

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material from US Army Corps on behalf of Bristol Construction.

Date of Disposal:	December 9, 2014
Profile #:	106581OR
Manifest #:	NEC01
Container #:	WMXU6319
Weight Disposed:	1120 lbs.
Waste Type:	Scrap Metal, Wood, & Rubber

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Sarah Mastriona

Sarah Mastriona
Special Waste Scale Clerk

WASTE MANAGEMENT

COLUMBIA RIDGE LANDFILL & RECYCLING CENTER
18177 Cedar Springs Lane
Arlington, OR 97812
541 454 2030
541 454 3312 Fax

January 15, 2015

Bristol Environmental Remediation Services, LLC
111 W. 16th Ave, Suite 301
Anchorage, AK 99501-6206

CERTIFICATE OF DISPOSAL

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material via the Alaska Street Transfer Facility from Bristol Environmental Remediation Services, LLC.

Generator:	Us Army Engineer District, AK
Date of Disposal:	December 26-30, 2014
Profile #:	110831OR
Load Count:	262
Total Tons:	5149.65
Waste Type:	Petroleum Contaminated Soil

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Julie Valdez

Julie Valdez
Special Waste Scale Clerk

*** IN CASE OF EMERGENCY CALL 1-800-424-9300 Contract# 7619 *** AK23160 (RP)

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: AK0000228395

Manifest Document No.: 23160B

2. Page 1 of 1

3. Generator's Name and Mailing Address: US ARMY ENGINEER DISTRICT, ALASKA
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 99506-6898

Site Address: USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

VALERIE PALMER

4. Generator's Phone: (907) 753-2578

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.

6. US EPA ID Number: WAH000011486

A. State Transporter's ID:

B. Transporter 1 Phone: (800) 426-3113

7. Transporter 2 Company Name: EMERALD ALASKA, INC

8. US EPA ID Number: AKR000004184

C. State Transporter's ID:

D. Transporter 2 Phone: (907) 258-1558

9. Designated Facility Name and Site Address: TOTAL RECLAIM INC
12101 INDUSTRY WAY
ANCHORAGE, AK 99515

10. US EPA ID Number: AKR000201897

E. State Facility's ID:

F. Facility's Phone: (907) 561-0544

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
HM				
a. UN3028, BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE X SOLID, 8, PGIII, (UNIVERSAL WASTE BATTERIES FOR RECYCLE), ERG#154	1	DF	~~15~~ 41	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

1)TR0006 DRY ALKALINE BATTERIES

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: VALERIE PALMER

Signature: Val-Pal on behalf of DOD

Date: Month 09 Day 24 Year 14

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ryan Crow

Signature: [signature]

Date: Month 11 Day 13 Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Morgan Kuhnke

Signature: [signature]

Date: Month 11 Day 26 Year 14

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Jake Sneddon

Signature: [signature]

Date: Month 11 Day 26 Year 14

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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www.emeraldnw.com

Certificate of Recycle

Total Reclaim
12101 Industry Way
Anchorage, AK 99515

AKR 000 201 897

Prepared by Emerald Alaska, Inc.

Generator: USACE, AK, NEC Facility Wide
NE Cape, St. Lawrence Island
Savoonga, AK 99769

Manifest Number: 23160B
Date of Recycle: 11/26/14

Line	Description	Quantity
1	Dry Alkaline Batteries	41 Pounds

Roxanne Pedersen / Senior Project Manager 12/20/21

*** IN CASE OF EMERGENCY CALL 1-800-424-9300 Contract# 7619 *** AK23160 (RP)

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: AK0000228395

Manifest Document No.: 23160A

2. Page 1 of 1

3. Generator's Name and Mailing Address
US ARMY ENGINEER DISTRICT, ALASKA
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 99506-6898

Site Address
USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

VALERIE PALMER

4. Generator's Phone (907) 753-2578

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.
6. US EPA ID Number: WAH000011486
A. State Transporter's ID
B. Transporter 1 Phone: (800) 426-3113

7. Transporter 2 Company Name: EMERALD ALASKA, INC
8. US EPA ID Number: AKR000004184
C. State Transporter's ID
D. Transporter 2 Phone: (907) 258-1558

9. Designated Facility Name and Site Address
EMERALD ALASKA, INC.
2020 VIKING DRIVE
ANCHORAGE, AK 99501
10. US EPA ID Number: AKR000004184
E. State Facility's ID
F. Facility's Phone: (907) 258-1558

GENERATOR

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY D.O.T.	2	DM	900	P
b. MATERIAL NOT REGULATED BY D.O.T.	2	DM	2540	P
c. MATERIAL NOT REGULATED BY D.O.T.	1	DM	420	P
d.				

G. Additional Descriptions for Materials Listed Above
1)EA0302 IDW DECON WATER
2)EA0808 NON-REGULATED TA/SOIL/SCRAP METAL
3)EA0709 NON-REGULATED ASH AND METAL

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
I certify that this material is not regulated nor mixed with waste regulated as a Hazardous Waste under 40CFR261 or TSCA regulated waste under 40CFR761. All used oil meets the definition under 40CFR279. Generator agrees to indemnify and hold harmless Emerald Alaska or its subsidiary for any damages, costs, attorneys and expert fees arising from or related to the above certification.

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: VALERIE PALMER
Signature: Val Pal
Date: Month 09 Day 24 Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ryan Crow
Signature:
Date: Month 11 Day 13 Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Morgan Kuhnke
Signature:
Date: Month 11 Day 26 Year 14

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Patricia L. Beasley
Signature: Patricia L Beasley
Date: Month 1 Day 7 Year 15

NON-HAZARDOUS WASTE

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*** IN CASE OF EMERGENCY CALL 1-800-424-9300 Contract# 7619 *** AK23160 (RP)

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: AK0000228395

Manifest Document No.: 23160A

2. Page 1 of 1

3. Generator's Name and Mailing Address: US ARMY ENGINEER DISTRICT, ALASKA, PO BOX 6898, CEPOA-EN-EE-ER, JBER, AK 99506-6898

Site Address: USACE, AK, NEC FACILITY WIDE, NE CAPE, ST. LAWRENCE ISLAND, SAVOONGA, AK 99769

VALERIE PALMER

4. Generator's Phone: (907) 753-2573

5. Transporter 1 Company Name: NORTHLAND SERVICES, INC.

6. US EPA ID Number: WAH000011446

A. State Transporter's ID:

B. Transporter 1 Phone: (800) 476-3113

7. Transporter 2 Company Name: EMERALD ALASKA, INC

8. US EPA ID Number: AKR000004184

C. State Transporter's ID:

D. Transporter 2 Phone: (907) 258-1558

9. Designated Facility Name and Site Address: EMERALD ALASKA, INC., 2020 VIKING DRIVE, ANCHORAGE, AK 99501

10. US EPA ID Number: AKR000004184

E. State Facility's ID:

F. Facility's Phone: (907) 258-1558

GENERATOR

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY D.O.T.	2	DM	900	P
b. MATERIAL NOT REGULATED BY D.O.T.	2	DM	2540	P
c. MATERIAL NOT REGULATED BY D.O.T.	1	DM	420	P
d.				

G. Additional Descriptions for Materials Listed Above

1)EA0302 LOW DECON WATER
2)EA0808 NON-REGULATED PA/SOIL/SCRAP METAL
3)EA0709 NON-REGULATED ASH AND METAL

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

I certify that this material is not regulated nor mixed with waste regulated as a hazardous waste under 40CFR261 or TSCA regulated waste under 40CFR761. All used oil meets the definition under 40CFR279. Generator agrees to indemnify and hold harmless Emerald Alaska or its subsidiary for any damages, costs, attorneys and expert fees arising from or related to the above certification.

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in propar condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: VALERIE PALMER | Signature: [signature] | Date: Month 11 Day 24 Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: [signature] | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Morgan Kuhnke | Signature: [signature] | Date: Month 11 Day 26 Year 14

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Tatruina L. Beasley | Signature: Tatruina L. Beasley | Date: Month 1 Day 7 Year 15

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CERTIFICATE OF DISPOSAL/RECYCLE

GENERATOR: USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA AK 99769

DISPOSAL FACILITY: EMERALD ALASKA, INC.
2020 VIKING DRIVE
ANCHORAGE AK 99501

EPA ID NUMBER: AK0000228395
MANIFEST/DOCUMENT #: 23160A
DATE OF DISPOSAL/RECYCLE: 01/02/2015

LINE	WASTE DESCRIPTION	CONTAINERS	TYPE	QUANTITY	UOM
1	IDW DECON WATER	2	DM	900	P
2	NON-REGULATED TA/SOIL/SCRAP METAL	2	DM	2,540	P
3	NON-REGULATED ASH AND METAL	1	DM	420	P

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

PREPARED BY: PATRICIA BEASLEY

SIGNATURE: Patricia J Beasley **DATE:** 1/7/2015

AK23160 (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 004786137FLE Contract# 7619 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AK0000228395	4	1-800-424-9300	004786137 FLE

5. Generator's Name and Mailing Address
US ARMY ENGINEER DISTRICT, ALASK
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 99506-6898
Generator's Phone: (907) 753-2578

Generator's Site Address (if different than mailing address)
USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

6. Transporter 1 Company Name: NORTHLAND SERVICES, INC. — U.S. EPA ID Number: WAH000011486

7. Transporter 2 Company Name: EMERALD ALASKA, INC — U.S. EPA ID Number: AKR000004184

8. Designated Facility Name and Site Address
CLEAN HARBORS ARAGONITE LLC
11600 N. APTUS ROAD, EXIT 56
ARAGONITE, UT 84029
Facility's Phone: (435) 884-8100
U.S. EPA ID Number: UTD981552177

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1593, WASTE DICHLOROMETHANE SOLUTION, 6.1, PGIII, ERG#160	1	DM	15	P	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)CH685083 SPENT METHYLENE CHLORIDE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VALERIE PALMER — Signature: Valerie Palmer on behalf of DOD — Month 09 Day 24 Year 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ryan Crow — Signature: [signature] — Month 11 Day 13 Year 14
Transporter 2 Printed/Typed Name: Morgan Kuhnke — Signature: [signature] — Month 11 Day 26 Year 14

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

AK23160 (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AK0000228395

22. Page: 2/ 4

23. Manifest Tracking Number: 004786137FLE

24. Generator's Name: ~~USACE, AK, NEC FACILITY WIDE~~
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

(907) 753-2578

25. Transporter 3 Company Name: WEAVER BROTHERS — U.S. EPA ID Number: AKD002848372

26. Transporter 4 Company Name: TOTEM OCEAN TRAILER EXPRESS — U.S. EPA ID Number: WAD070397955

27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

AK23160 (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AK0000228395

22. Page: 3/ 4

23. Manifest Tracking Number: 004786137FLE

24. Generator's Name: USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769
(907) 753-2578

25. Transporter 5 Company Name: EMERALD SERVICES, INC.
U.S. EPA ID Number: WAD058364647

26. Transporter 6 Company Name: CLEAN HARBORS
U.S. EPA ID Number: SCR000074591

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 5 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 6 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AK0000228395

22. Page: 4 of 4

23. Manifest Tracking Number: 004786137FLE

24. Generator's Name: ~~USACE, AK, NEC FACILITY WIDE~~
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769
(907) 753-2578

25. Transporter 7 Company Name: SLT EXPRESS WAY INC — U.S. EPA ID Number: AZR000508515

26. Transporter 8 Company Name: CLEAN HARBORS — U.S. EPA ID Number: SCR000074591

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 7 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 8 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Emerald Alaska, Inc. RCRA Land Disposal Restriction Notification Form EZ

(This form is applicable to characteristic (D codes), listed waste (F, K, U and P codes), Contaminated Soil and Hazardous Debris)

Generator: USACE, AK, NEC Facility Wide U.S. E.P.A. I.D. #: AK0000225395
Profile #: CH685083 Manifest #: 004786137FLE

The wastes identified in this form are subject to the land disposal restrictions of 40CFR Part 268. The wastes do not meet the treatment standards specified in Part 268 , Subpart D or do not meet the applicable prohibition levels specified in 268.32 or RCRA Section 3004(d). Pursuant to 40CFR 256.7(a), the required information applicable to each waste is identified below *(check all boxes that apply):*

Treatability Group: ☐ Wastewater ■ Non-Wastewater

(Wastewaters containing less than 1% filterable solids and less than 1% Total Organic Carbon)

- ☐ **D001 Ignitable (except for high TOC) managed in non-CWA/non-CWA equivalent non-Class I SDWA systems** *(Complete Form U.C. Underlying hazardous constituents need not be addressed if the waste is to be combusted or recovered.)*
- ☐ D001 Ignitable (except for high TOC) managed in CWA/CWA-equivalent /Class I SDWA systems
- ☐ D001 High TOC Ignitable (Greater than 10% organic carbon)
- ☐ **D002 Corrosive managed in non-CWA/non-CWA-equivalent/non Class I SDWA systems** *(Complete Form U.C.)*
- ☐ D002 Corrosive managed in CWA/CWA-equivalent /Class I systems
- ☐ D003 Reactive Sulfides based on 261.23(a)(5)
- ☐ D003 Reactive Cyanides based on 261.23(a)(5)
- ☐ **D003 Water Reactives based on 261.23(a)(2), (3), and (4) managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems** *(Complete Form U.C.)*
- ☐ D003 Water Reactives based on 261.23(a)(2), (3) and (4) managed in CWA/CWA-equivalent /Class I SDWA systems
- ☐ D003 Other Reactives based on 261.23(a)(1)

If D004 – D043 boxes are checked, complete and attach Form U.C. to address underlying hazardous constituents (unless these wastes are to be managed in a CWA/CWA-equivalent/Class I SDWA system):

- ☐ D004 Arsenic
- ☐ D005 Barium
- ☐ D006 Cadmium
- ☐ D007 Chromium
- ☐ D008 Lead
- ☐ D009 Mercury
- ☐ D010 Selenium
- ☐ D011 Silver
- ☐ D012 Endrin
- ☐ D013 Lindane
- ☐ D014 Methoxychlor
- ☐ D015 Toxaphene
- ☐ D016 2,4-D
- ☐ D017 2,4,5-TP (Silvex)
- ☐ D018 Benzene
- ☐ D019 Carbon Tetrachloride
- ☐ D020 Chlordane
- ☐ D021 Chlorobenzene
- ☐ D022 Chloroform
- ☐ D023 *o*-Cresol
- ☐ D024 *m*-Cresol
- ☐ D025 *p*-Cresol
- ☐ D026 Cresols (Total)
- ☐ D027 *p*-Dichlorobenzene
- ☐ D028 1,2-Dichloroethane
- ☐ D029 1,1-Dichloroethylene
- ☐ D030 2,4-Dinitrotoluene
- ☐ D031 Heptachlor
- ☐ D032 Hexachlorobenzene
- ☐ D033 Hexachlorobutadiene
- ☐ D034 Hexachloroethane
- ☐ D035 Methyl Ethyl Ketone
- ☐ D036 Nitrobenzene
- ☐ D037 Pentachlorophenol
- ☐ D038 Pyridine
- ☐ D039 Tetrachloroethylene
- ☐ D040 Trichloroethylene
- ☐ D041 2,4,5-Trichlorophenol
- ☐ D042 2,4,6-Trichlorophenol
- ☐ D043 Vinyl Chloride

In addition, the following wastes are included in this shipment:

- ☑ F001 – F005 Spent Solvents. (If this box is checked, complete F001-F005 section on the back of this form. Check the hazardous number(s) that apply and identify the constituents likely to be present in the waste.)
- ☐ **F039 Multisource Leachate. If this box is checked, complete and attach Form U.C. to identify the individual constituents.**
- ☐ Contaminated Soil that meets the LDR standard found in 268 Subpart D (If this box is checked, complete the Contaminated Soil section on the back of this form.)
- ☐ Hazardous Debris (If this box is checked, complete the Hazardous Debris section on the back of this form.)

If this shipment carries additional waste codes that are not addressed above, identify them here:

EPA Waste Code	Subcategory (if any)	EPA Waste Code	Subcategory (if any)	EPA Waste Code	Subcategory (if any)

F001 – F005 Spent Solvents (Form EZ Page 2)

Check the box (es) that apply. Identify the individual constituents likely to be present.

Hazardous Waste Description	Regulated Hazardous Constituents	
☐ F001 Spent Halogenated Solvents used in Degreasing	☐ Carbon Tetrachloride ☐ Tetrachloroethylene ☐ Trichloroethylene ☐ Trichloromonofluoromethane	☐ Methylene Chloride ☐ 1,1,1-Trichloroethane ☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
☑ F002 Spent Halogenated Solvents	☐ Carbon Tetrachloride ☐ Tetrachloroethylene ☐ Trichloroethylene ☐ Trichloromonofluoromethane	☑ Methylene Chloride ☐ 1,1,1-Trichloroethane ☐ 1,1,2-Trichloro-1,2,2-trifluoroethane
☐ F003 Spent Non-Halogenated Solvents	☐ Acetone ☐ Cyclohexanone * ☐ Ethyl Benzene ☐ Methanol * ☐ Xylenes (Total)	☐ *n*-Butyl Alcohol ☐ Ethyl Acetate ☐ Ethyl Ether ☐ Methyl Isobutyl Ketone
☐ F004 Spent Non-Halogenated Solvents	☐ *m*-Cresol ☐ *p*-Cresol ☐ Nitrobenzene	☐ *o*-Cresol ☐ Cresol Mixed Isomers (Cresylic Acid)
☐ F005 Spent Non-Halogenated Solvents	☐ Benzene ☐ 2-Ethoxyethanol ☐ Methyl Ethyl Ketone ☐ Pyridine	☐ Carbon Disulfide * ☐ Isobutyl Alcohol ☐ 2-Nitropropane ☐ Toluene

** The treatment standards for carbon disulfide, cyclohexanone and methanol non-wastewaters are based on the TCLP and apply to spent solvent non-wastewaters containing only one, two or all three of these constituents. The treatment standards for these three constituents do no apply when any of the other F001-F005 constituents are present in the waste.*

Contaminated Soil Waste

- ☐ This shipment contain contaminated soil with listed hazardous waste and does not exhibit a characteristic of hazardous waste and is subject to the soil treatment standards as provided by 268.49(c) of the universal treatment standards.
- ☐ This shipment contains contaminated soil which does not contain hazardous waste and does not exhibit a characteristic of hazardous waste and complies with the soil treatment standards as provided by 268.49(c) of the universal treatment standards.

Hazardous Debris

The definition of "debris" and "hazardous debris" are in 40CFR 268.2. Per 268.45, hazardous debris must be treated for each "contaminant subject to treatment." To determine these, look up the waste code in 268.40 and list the regulated hazardous constituents for each code. Check the box that applies.

- ☐ This shipment contains hazardous debris that will be treated to comply with the alternative treatment standards of 268.45 (e.g. macroencapsulation or abrasive blasting).
- ☐ This shipment contains hazardous debris that will be treated to meet the 258.40 treatment standards for the waste(s) contaminating the debris.

The contaminants subject to treatment for this debris are identified below:

EPA Waste Code	Subcategory (if any)	Contaminants Subject to Treatment

AK23160 (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 004786138FLE Contract# 7619 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: AK0000228395
2. Page 1 of 3
3. Emergency Response Phone: 1-800-424-9300
4. Manifest Tracking Number: 004786138 FLE

5. Generator's Name and Mailing Address:
US ARMY ENGINEER DISTRICT, ALASK
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 99506-6898
Generator's Phone: (907) 753-2578

Generator's Site Address (if different than mailing address):
USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

6. Transporter 1 Company Name: NORTHLAND SERVICES, INC.
U.S. EPA ID Number: WAH000011486

7. Transporter 2 Company Name: EMERALD ALASKA, INC
U.S. EPA ID Number: AKR000004184

8. Designated Facility Name and Site Address:
US ECOLOGY IDAHO, INC.
20400 LEMLEY RD
GRAND VIEW, ID 83624
Facility's Phone: (800) 274-1516
U.S. EPA ID Number: IDD073114654

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD), 9, PGIII, RQ=D008, ERG#171	2	DF	50	P	D008
X	2. RQ, UN3082, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CADMIUM), 9, PGIII, RQ=CADMIUM, ERG#171	1	DF	10	P	D006
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)USE22443 BROKEN PIECES OF LEAD A
2)USE31588 HACH AQUEOUS LAB WASTE C

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VALERIE PALMER
Signature: Valerie J Palmer on behalf of DOD
Month 09 Day 24 Year 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ryan Crow
Signature:
Month 11 Day 13 Year 14
Transporter 2 Printed/Typed Name: Morgan Kuhnke
Signature:
Month 11 Day 26 Year 14

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

GENERATOR INT'L TRANSPORTER DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

AK23160 (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AK0000228395

22. Page: 2/ 3

23. Manifest Tracking Number: 004786138FLE

24. Generator's Name: USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769

(907) 753-2578

25. Transporter 3 Company Name: WEAVER BROTHERS — U.S. EPA ID Number: AKD002848372

26. Transporter 4 Company Name: TOTEM OCEAN TRAILER EXPRESS — U.S. EPA ID Number: WAD070397955

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

DESIGNATED FACILITY

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

AK2316U (RP)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number AK0000228395	22. Page 3/ 3	23. Manifest Tracking Number 004786138FLE

24. Generator's Name: USACE, AK, NEC FACILITY WIDE
NE CAPE, ST. LAWRENCE ISLAND
SAVOONGA, AK 99769
(907) 753-2578

25. Transporter 5 Company Name: EMERALD SERVICES, INC. U.S. EPA ID Number: WAD058364647

26. Transporter 6 Company Name: STEVE FORLER TRUCKING U.S. EPA ID Number: IDR000205625

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 5 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 6 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

US Ecology, Inc. Land Disposal Restriction Form

USEcology, Inc.

GENERATOR: USACE, AK, NEC Facility Wide EPA I.D. NUMBER: AK0000228395

WASTE STREAM or PROFILE NUMBER: 31588 MANIFEST DOC. NO. 004786138FLE LINE NO. 2

WASTE IS A: ☐ WASTEWATER ☐ NON-WASTEWATER ☒ DEBRIS

NOTIFICATION FREQUENCY: ☐ ONE TIME ☒ REQUIRED WITH EACH SHIPMENT

EPA WASTE CODES (from 40 CFR 268.40) D006

UHC's (Underlying Hazardous Constituents 40 CFR 268.48)? ☒ No ☐ Yes - List:

A. ☐ **Restricted Waste Meets Treatment Standards (40 CFR 268.7(a) (3))**

The restricted waste identified above meets the treatment standards in 40 CFR 268.40 or **Alternative LDR treatment standards for contaminated soil 40CFR268.49** and can be landfill disposed without further treatment. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

B. ☐ **Restricted Waste Treated To Treatment Standards (40 CFR 268.7(b) (I) & 268.7 (b) (2))**

The treatment residue, or extract of such residue, or the restricted waste identified above has been tested to assure that the treatment residues or extract meet all applicable treatment standards in 40 CFR 268.40 and/or performance standards in 40 CFR 268.45. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

C. ☐ **Restricted Waste With Technology Based Treatment Standards (40 CFR 268.7(b) (4))**

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40, without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

D. ☐ **Restricted Waste Decharacterized But Requires Treatment For UHC (40 CFR 268.9)**

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardons characteristic. This decharacterized waste contains Underlying Hazardous Constituents (UHC) that require further treatment to meet the universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

E. ☒ **Restricted Waste Subject To Treatment (40 CFR 268.7(a) (2))**

The restricted waste identified above must be treated to the applicable treatment standards in 40 CFR 268.40, or treated to comply with applicable prohibitions set forth in Part 268.32 or RCRA Section 3004(d). I have attached all supporting analytical data, where available.

F. ☐ **Hazardous Debris Subject To Treatment (40 CFR 268.45)**

This hazardous debris identified above must he treated to the alternative treatment standards in 40 CFR 268.45.

G. ☐ **Restricted Waste Subject To A Variance or Extension (40 CFR 268.7(a) (4))**

This restricted waste identified above is subject to a case by case exemption under 40 CFR 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under Subpart C of 40 CFR 268, and is not prohibited from land disposal. LDR prohibitions become effective on _____ (date) for this restricted waste. The corresponding treatment standard(s) are promulgated in 40 CFR 268.40. I have attached all supporting analytical data, where available.

H. ☐ **Restricted Waste Managed In A "Lab Pack" (40 CFR 268.7(a) (9))**

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only waste that have been excluded under appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I certify and warrant that the information that appears on this form, and appended documents, is true and correct. I have correctly indicated how my waste is to be managed in accordance with 40 CFR 268. My certification is based on personal examination of the information submitted, or is based on my inquiries of those individuals responsible for obtaining the information.

Authorized Signature Val: Pal **Title** FUDS Project Manager **Date** 24 Sep 2014

UHC list from 40 CFR Part 268.48 available upon request

US Ecology, Inc. Land Disposal Restriction Form

USEcology, Inc.

GENERATOR: USACE, AK, NEC Facility Wide EPA I.D. NUMBER: AK0000228395

WASTE STREAM or PROFILE NUMBER: 22443 MANIFEST DOC. NO. 004786138FLE LINE NO. 1

WASTE IS A: ☐ WASTEWATER ☐ NON-WASTEWATER ☒ DEBRIS

NOTIFICATION FREQUENCY: ☐ ONE TIME ☒ REQUIRED WITH EACH SHIPMENT

EPA WASTE CODES (from 40 CFR 268.40) D008

UHC's (Underlying Hazardous Constituents 40 CFR 268.48)? ☒ No ☐ Yes - List:

A. ☐ **Restricted Waste Meets Treatment Standards (40 CFR 268.7(a) (3))**

The restricted waste identified above meets the treatment standards in 40 CFR 268.40 or **Alternative LDR treatment standards for contaminated soil 40CFR268.49** and can be landfill disposed without further treatment. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

B. ☐ **Restricted Waste Treated To Treatment Standards (40 CFR 268.7(b) (I) & 268.7 (b) (2))**

The treatment residue, or extract of such residue, or the restricted waste identified above has been tested to assure that the treatment residues or extract meet all applicable treatment standards in 40 CFR 268.40 and/or performance standards in 40 CFR 268.45. I have attached all supporting analytical data, where available.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

C. ☐ **Restricted Waste With Technology Based Treatment Standards (40 CFR 268.7(b) (4))**

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40, without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

D. ☐ **Restricted Waste Decharacterized But Requires Treatment For UHC (40 CFR 268.9)**

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains Underlying Hazardous Constituents (UHC) that require further treatment to meet the universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

E. ☐ **Restricted Waste Subject To Treatment (40 CFR 268.7(a) (2))**

The restricted waste identified above must be treated to the applicable treatment standards in 40 CFR 268.40, or treated to comply with applicable prohibitions set forth in Part 268.32 or RCRA Section 3004(d). I have attached all supporting analytical data, where available.

F. ☒ **Hazardous Debris Subject To Treatment (40 CFR 268.45)**

This hazardous debris identified above must be treated to the alternative treatment standards in 40 CFR 268.45.

G. ☐ **Restricted Waste Subject To A Variance or Extension (40 CFR 268.7(a) (4))**

This restricted waste identified above is subject to a case by case exemption under 40 CFR 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under Subpart C of 40 CFR 268, and is not prohibited from land disposal. LDR prohibitions become effective on _____ (date) for this restricted waste. The corresponding treatment standard(s) are promulgated in 40 CFR 268.40. I have attached all supporting analytical data, where available.

H. ☐ **Restricted Waste Managed In A "Lab Pack" (40 CFR 268.7(a) (9))**

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only waste that have been excluded under appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I certify and warrant that the information that appears on this form, and appended documents, is true and correct. I have correctly indicated how my waste is to be managed in accordance with 40 CFR 268. My certification is based on personal examination of the information submitted, or is based on my inquiries of those individuals responsible for obtaining the information.

Authorized Signature Val. Pal **Title** FUDS Project Manager **Date** 24 Sep 2014

UHC list from 40 CFR Part 268.48 available upon request

January, 1, 2015

Emerald Alaska is changing to NRC Alaska

Dear Valued Customers,

NRC US Holding Company, LLC is pleased to announce the full integration of the Emerald Alaska, Inc. into the NRC family. The integration of the businesses under the well-recognized NRC brand will be reflected by name change of Emerald Alaska Inc. to NRC Alaska, LLC d/b/a Emerald Alaska.

NRC is the leading commercial provider of United States Oil Pollution Act of 1990 regulatory compliance and emergency response services as well as a global provider of diversified environmental, industrial, and emergency response solutions. With regional offices throughout the U.S. and internationally, NRC has over 1000 employees.

NRC Alaska will continue to focus on recycling and environmental services throughout Alaska by offering a broad range of waste management services ranging from used oil and petroleum wastes recovery, spill response and clean up, including transportation and disposal of hazardous and non-hazardous wastes for industrial, marine, automotive and government clients.

This transition to NRC Alaska will reflect Emerald Alaska's continued dedication to provide the highest quality services to the Alaskan community; while also reflecting NRC's expanding capability and ability to offer the international resources and expertise to the Alaskan market.

We at Emerald Alaska sincerely thank you for your continued support! Our staff is available to personally answer any questions or concerns that you or anyone with your Company may have with this transition, so do not hesitate to contact any one of us.

With my sincere regards,

W. Paul Nielsen III
Director of Sales and Marketing
NRC Alaska
907.258.1558

Please visit our newly updated and improved company website **www.nrcc.com**

Alaska LLC dba Emerald Alaska
425 Outer Springer Loop Rd
Palmer, AK 99645
1-907-258-1558

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96491

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:21:35	SCALE 1	lmercer		Gross	87480 lb
Out	12/26/2014 07:21:35		lmercer		Tare	42260 lb
					Net	45220 lb
					Tons	22.61

Comments FISCHER-KF NC433/NC434 1108310R

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.61	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.61	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.61	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 433	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2021990
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395	

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11620	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 434	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021986 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRAN5PORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR 5PRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1220	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96492

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13
Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:24:45	SCALE 1	lmercer		Gross	82620 lb
Out	12/26/2014 07:24:45		lmercer		Tare	42680 lb
					Net	39940 lb
					Tons	19.97

Comments KISSLER-KF NC435/NC436

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.97	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.97	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.97	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 435	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021987 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12ddD	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 436	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021988 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1340	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96493

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:28:00	SCALE 1	lmercer		Gross	83800 lb
Out	12/26/2014 07:28:00		lmercer		Tare	39580 lb
					Net	44220 lb
					Tons	22.11

Comments KISSLER-KF NC437/NC438

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.11	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.11	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.11	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC437	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2021989
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395	

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR 5PRING5 LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14500	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 438	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-7S3-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	**A.** Manifest Number 2021972 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT **WM Profile #** 110831OR	001	BA	18540	P	
b. **WM Profile #**					
c. **WM Profile #**					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96494

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:31:34	SCALE 1	lmercer		Gross	82020 lb
Out	12/26/2014 07:31:34		lmercer		Tare	41460 lb
					Net	40560 lb
					Tons	20.28

Comments MARK HUNT-KF NC462/NC463

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 462	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021963 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20420	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 463	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021962 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20960	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96495

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:36:20	SCALE 1	lmercer		Gross	83300 lb
Out	12/26/2014 07:36:20		lmercer		Tare	40280 lb
					Net	43020 lb
					Tons	21.51

Comments JB-KF NC466/NC467

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.51	Tons				
3	FEA-FUEL,ENV,ADMIN	100	21.51	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4606	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021966
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13240	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 467	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2021967 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	[illegible]	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96496

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 07:47:48	SCALE 1	lmercer		Gross	82280 lb
Out	12/26/2014 07:47:48		lmercer		Tare	41460 lb
					Net	40820 lb
					Tons	20.41

Comments KISSLER-KF NC468/NC470

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.41	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.41	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.41	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

03WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4608	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2021968
		B. State Generator's ID	AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD9871734S7	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15520	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 470	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021970 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12180	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96497

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:00:47	SCALE 1	lmercer		Gross	81820 lb
Out	12/26/2014 08:00:47		lmercer		Tare	39860 lb
					Net	41960 lb
					Tons	20.98

Comments RTRANS-KF NC472/NC476

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.98	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.98	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC472	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021983 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	0020	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC476	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766241 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15960	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96498

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver GREG RAMEY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:03:44	SCALE 1	lmercer		Gross	86320 lb
Out	12/26/2014 08:03:44		lmercer		Tare	42260 lb
					Net	44060 lb
					Tons	22.03

Comments FISCHER-KF NC477/NC478

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.03	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.03	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.03	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC477	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766242 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15100	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC478	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766243 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18000	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96499

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:07:01	SCALE 1	lmercer		Gross	80960 lb
Out	12/26/2014 08:07:01		lmercer		Tare	42680 lb
					Net	38280 lb
					Tons	19.14

Comments KISSLER-KF NC479/NC480

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.14	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.14	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.14	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 479	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766244 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21040	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 480	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766269
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15320	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96500

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:10:46	SCALE 1	lmercer		Gross	75400 lb
Out	12/26/2014 08:10:46		lmercer		Tare	39580 lb
					Net	35820 lb
					Tons	17.91

Comments KISSLER-KF NC481/NC483

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.91	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.91	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.91	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 481	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021961
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	10380	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC483	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766246
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13440	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96501
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:17:28	SCALE 1	lmercer		Gross	78440 lb
Out	12/26/2014 08:17:28		lmercer		Tare	41460 lb
					Net	36980 lb
					Tons	18.49

Comments MARK HUNT-KF NC484/NC485

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.49	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.49	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.49	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 484	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766247 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13620	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 485	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766248
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND 5ERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	9960	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96502

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:23:36	SCALE 1	lmercer	/	Gross	73300 lb
Out	12/26/2014 08:23:36		lmercer		Tare	40280 lb
					Net	33020 lb
					Tons	16.51

Comments JB-KF NC486/NC487

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.51	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.51	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 4816	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766249
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	10760	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC487	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2766250
		B. State Generator's ID	AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	7900	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96503

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110A310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:29:17	SCALE 1	lmercer		Gross	79360 lb
Out	12/26/2014 08:29:17		lmercer		Tare	41460 lb
					Net	37900 lb
					Tons	18.95

Comments KISSLER-KF NC488/NC489

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.95	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.95	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.95	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 488	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766251
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Zero	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 489	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766252 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1.80	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96505

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:38:00	SCALE 1	lmercer		Gross	81400 lb
Out	12/26/2014 09:03:58	SCALE 1	lmercer		Tare	40320 lb
					Net	41080 lb
					Tons	20.54

Comments FISCHER-KF NC492/NC493

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.54	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.54	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.54	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC492	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766255
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11580	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 4193	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766256 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	9740	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96506

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver GREG RAMEY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:41:11	SCALE 1	lmercer		Gross	77560 lb
Out	12/26/2014 08:41:11		lmercer		Tare	42260 lb
					Net	35300 lb
					Tons	17.65

Comments FISCHER-KF NC494/NC495

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.65	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.65	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.65	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 494	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number	2766257
			B. State Generator's ID	AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID	
			D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID	
			F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID	
			H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11940	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 495	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766289
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1340	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 9650A

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:56:57	SCALE 1	lmercer		Gross	78600 lb
Out	12/26/2014 08:56:57		lmercer		Tare	39580 lb
					Net	39020 lb
					Tons	19.51

Comments KISSLER-KF NC499/NC501

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.51	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.51	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc. No. NC 499	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766262 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1460	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC501	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766264
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-7S3-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD9871734S7	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14lb	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96509

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:06:22	SCALE 1	lmercer		Gross	76240 lb
Out	12/26/2014 09:06:22		lmercer		Tare	41460 lb
					Net	34780 lb
					Tons	17.39

Comments MARK HUNT-KF NC503/NC504

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.39	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.39	Tons				
3	FEA-FUEL,ENV,ADMIN	100	17.39	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 503	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766266
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT	001	BA	8800	P	
WM Profile # 110831OR					
b.					
WM Profile #					
c.					
WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 504	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766267
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	9100	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96510

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:13:21	SCALE 1	lmercer		Gross	82100 lb
Out	12/26/2014 09:13:21		lmercer		Tare	40280 lb
					Net	41820 lb
					Tons	20.91

Comments JB-KF NC505/NC506

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.91	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.91	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.91	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 505	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number	2766268
			B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID	
			D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID	
			F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR 5PRING5 LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID	
			H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15720	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC 5016	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766270 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11080	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96511

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:15:53	SCALE 1	lmercer		Gross	79100 lb
Out	12/26/2014 09:15:53		lmercer		Tare	41460 lb
					Net	37640 lb
					Tons	18.82

Comments KISSLER-KF NC507/NC508

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PC5-Tons-Pet	100	18.82	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.82	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.82	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC 507	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766271
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12480	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 508	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2766272
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14600	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96512

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 00000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:22:53	SCALE 1	lmercer		Gross	79340 lb
Out	12/26/2014 09:22:53		lmercer		Tare	39860 lb
					Net	39480 lb
					Tons	19.74

Comments RTRANS-KF NC509/NC510

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 509	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766273 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11740	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 510	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766274
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13900	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Ticket# 965

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Container
Driver ADAM YOUNG
Check#
Billing# 00000273
Grid

Inbound

	Volume
Gross	68280 lb
Tare	40320 lb
Net	27960 lb
Tons	13.98

	Scale	Operator
In	SCALE 1	lmercer
Out	SCALE 1	lmercer

	Time
In	12/26/2014 09:25:51
Out	12/26/2014 09:25:51

Comments FISCHER-KF NCS11/NCS12

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	13.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	13.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 511	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766275 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1370	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 512	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2766276
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14540	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96514

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 341200057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:32:29	SCALE 1	lmercer		Gross	73280 lb
Out	12/26/2014 09:32:29		lmercer		Tare	42260 lb
					Net	31020 lb
					Tons	15.51

Comments FISCHER-KF NC513/NC514

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.51	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.51	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 513	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766277
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15400	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC-514	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766278 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12-390	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96515

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13
Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:34:54	SCALE 1	lmercer		Gross	83020 lb
Out	12/26/2014 09:34:54		lmercer		Tare	42680 lb
					Net	40340 lb
					Tons	20.17

Comments KISSLER-KF NC515/NC516

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.17	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.17	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.17	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 515	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2766279	
		B. State Generator's ID AK00000228395	

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13340	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 516	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766280
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	9480	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96516

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:37:40	SCALE 1	lmercer		Gross	84620 lb
Out	12/26/2014 09:37:40		lmercer		Tare	39580 lb
					Net	45040 lb
					Tons	22.52

Comments KISSLER-KF NC517/NC518

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.52	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.52	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.52	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC517	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766281 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	11980	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC 518	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766282 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13620	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96517

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110031OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:44:41	SCALE 1	lmercer		Gross	82760 lb
Out	12/26/2014 09:44:41		lmercer		Tare	41460 lb
					Net	41300 lb
					Tons	20.65

Comments MARK HUNT-KF NC519/NC520

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.65	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.65	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.65	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 519	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766283
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13920	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC 520	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2766284
		B. State Generator's ID	AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR 5PRING5 LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14560	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96518

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:40:09	SCALE 1	lmercer		Gross	80260 lb
Out	12/26/2014 09:48:09		lmercer		Tare	40280 lb
					Net	39980 lb
					Tons	19.99

Comments JA-KM NC521/NC522

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.99	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.99	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.99	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 5321	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766285
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13920	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 522	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766286
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1H600	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96519

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:51:17	SCALE 1	lmercer		Gross	68660 lb
Out	12/26/2014 09:51:17		lmercer		Tare	41460 lb
					Net	27200 lb
					Tons	13.60

Comments KISSLER-KF NC523/NC524

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.60	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	13.60	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	13.60	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 525	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number	2766287
			B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID	
			D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID	
			F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID	
			H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	9250	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC524	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766288
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12800	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96520

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 09:56:15	SCALE 1	lmercer		Gross	75560 lb
Out	12/26/2014 09:56:15		lmercer		Tare	39860 lb
					Net	35700 lb
					Tons	17.85

Comments RTRANS-KF NC465/NC525

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.85	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.85	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.85	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4105	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021965 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12000	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 525	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2766291
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20020	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96521

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:02:48	SCALE 1	lmercer		Gross	75300 lb
Out	12/26/2014 10:02:48		lmercer		Tare	40320 lb
					Net	34980 lb
					Tons	17.49

Comments FISCHER-KF NC496/NC469

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.49	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.49	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.49	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC4960	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number	2766259
			B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14100	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC469	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-7S3-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021969 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15020	P	
b. WM Profile #					
c. WM Profile #					
d.					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96522

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:14:33	SCALE 1	lmercer		Gross	76100 lb
Out	12/26/2014 10:14:33		lmercer		Tare	42260 lb
					Net	33840 lb
					Tons	16.92

Comments FISCHER-KF NC500/NC471

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.92	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.92	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.92	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 580	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number	2766263
			B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID	
			D. Transporter's Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID	
			F. Transporter's Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID	
			H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	13570	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 431	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021982 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD9871734S7	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96523

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:19:32	SCALE 1	lmercer		Gross	73260 lb
Out	12/26/2014 10:19:32		lmercer		Tare	42680 lb
					Net	30580 lb
					Tons	15.29

Comments KISSLER-KF NC502/NC473

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.29	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.29	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.29	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC502	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766265 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1240	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC473	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021971 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 1108310R	001	BA	10820	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96524

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:24:22	SCALE 1	lmercer		Gross	78840 lb
Out	12/26/2014 10:24:22		lmercer		Tare	39580 lb
					Net	39260 lb
					Tons	19.63

Comments KISSLER-KF NC482/NC474

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.63	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.63	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.63	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 482	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766245 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12550	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC474	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2766239 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	12000	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96526

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:34:00	SCALE 1	lmercer		Gross	83600 lb
Out	12/26/2014 10:34:00		lmercer		Tare	41460 lb
					Net	42140 lb
					Tons	21.07

Comments MARK HUNT-KF NC002/NC003

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.07	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.07	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.07	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 002	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685918 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1570	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 003	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685919 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19800	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96527

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:36:36	SCALE 1	lmercer		Gross	78660 lb
Out	12/26/2014 10:36:36		lmercer		Tare	38080 lb
					Net	40580 lb
					Tons	20.29

Comments TRANS-KF NC004/NC005

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.29	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.29	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.29	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 004	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685920
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14300	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 005	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685921
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96528

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:41:39	SCALE 1	lmercer		Gross	75400 lb
Out	12/26/2014 10:41:39		lmercer		Tare	41460 lb
					Net	33940 lb
					Tons	16.97

Comments KISSLER-KF NC006/NC007

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.97	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.97	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.97	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 006	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685922 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19480	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol	Comments
d. Waste Name					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC007	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029173 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 1108131OR	001	BA	2460	P	
b. WM Profile #					
c. WM Profile #					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96529

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:44:15	SCALE 1	lmercer		Gross	74340 lb
Out	12/26/2014 10:44:15		lmercer		Tare	39860 lb
					Net	34480 lb
					Tons	17.24

Comments RTRANS-KF NC008/NC009

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.24	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.24	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.24	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC008	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685924 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20840	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC009	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685925 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19940	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name					

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96530

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:55:11	SCALE 1	lmercer		Gross	73180 lb
Out	12/26/2014 10:55:11		lmercer		Tare	40320 lb
					Net	32860 lb
					Tons	16.43

Comments FISCHER-KF NC010/NC011

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC010	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685926
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18920	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 011	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number	2685927
		B. State Generator's ID	AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID	State Transporter ID
		D. Transporter's Phone	Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID	State Transporter ID
		F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID	Waste Facility ID
		H. State Facility Phone	Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20740	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96531
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:06:33	SCALE 1	lmercer		Gross	79460 lb
Out	12/26/2014 11:06:33		lmercer		Tare	42260 lb
					Net	37200 lb
					Tons	18.60

Comments FICSHER-KF NC012/NC013

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.60	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.60	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.60	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 012	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685928
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC013	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2685929
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone

7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD9871734S7	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21780	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96532

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:13:15	SCALE 1	lmercer		Gross	82620 lb
Out	12/26/2014 11:13:15		lmercer		Tare	42680 lb
					Net	39940 lb
					Tons	19.97

Comments KISSLER-KF NC014/NC015

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.97	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.97	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.97	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC014	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685930 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18300	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 015	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685931 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20120	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96533

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:26:19	SCALE 1	lmercer		Gross	76900 lb
Out	12/26/2014 11:26:19		lmercer		Tare	39580 lb
					Net	37320 lb
					Tons	18.66

Comments KISSLER-KF NC016/NC017

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC016	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685932
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19340	P	
b.					
WM Profile #					
c.					
WM Profile #					

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC017	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685933
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone	Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID**	State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID**	State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone	Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20480	P	Comments
b. Waste Name WM Profile # Wst Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # Wst Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96534

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:28:31	SCALE 1	lmercer		Gross	75140 lb
Out	12/26/2014 11:28:31		lmercer		Tare	40280 lb
					Net	34860 lb
					Tons	17.43

Comments JB-KF NC018/NC019

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 018	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685934 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18260	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 019	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685935
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRING5 LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR	11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18820	P	Comments
	b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
	c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96535

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:37:41	SCALE 1	lmercer		Gross	70820 lb
Out	12/26/2014 11:37:41		lmercer		Tare	38080 lb
					Net	32740 lb
					Tons	16.37

Comments TRANS-KF NC020/NC021

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.37	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.37	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.37	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC020	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685936 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18880	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 021	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685937 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO#
34120057/110031OR

Carrier R TRANSPORT R TRANSPORT
Ph: 206 763 5025
Vehicle# MH01T
Container
Driver
Check# MARK HUNT
Billing# 0000273
Grid

Original Ticket# 96536

In	Time	Scale	
Out	12/26/2014 11:40:33	SCALE 1	
	12/26/2014 11:40:33		

Volume

Comments MARK HUNT-KF NC022/NC023

Operator
1mercer
1mercer

Product	LD%	Qty	UOM	Rate	Tax	Amount
Daily Cover-PCS-Tons-Pet	100					
GONDOLA 18.87/TON-GONDOL	100	20.86	Tons			
FEA-FUEL,ENV,ADMIN	100	20.86	Tons			
LOCAL TRANS-LOCAL TRANS	100	20.86	Tons			
MANIFEST FEE-MANIFEST FE	100	1	Load			
		2				

Inbound

Gross	83180 lb
Tare	41460 lb
Net	41720 lb
Tons	20.86

s Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC022	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685938 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19080	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 023	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685939 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20120	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96537

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 11:53:30	SCALE 1	lmercer		Gross	73000 lb
Out	12/26/2014 11:53:30		lmercer		Tare	41460 lb
					Net	31540 lb
					Tons	15.77

Comments KISSLER-KF NC024/NC025

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.77	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.77	Tons				
3	FEA-FUEL,ENV,ADMIN	100	15.77	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC024	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685940 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19280	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 025	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685941
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20080	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96538

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:00:30	SCALE 1	lmercer		Gross	72340 lb
Out	12/26/2014 12:00:30		lmercer		Tare	39860 lb
					Net	32480 lb
					Tons	16.24

Comments RTRANS-KF NC026/NC027

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.24	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.24	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.24	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0260	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685942
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone	Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID**	State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID	State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone	Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20100	P	Comments
b. Waste Name WM Profile # WM Profile Number	No	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 027	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685943 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19220	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96539

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:03:40	SCALE 1	lmercer		Gross	82660 lb
Out	12/26/2014 12:03:40		lmercer		Tare	40320 lb
					Net	42340 lb
					Tons	21.17

Comments FISCHER-KF NC028/NC029

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.17	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.17	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.17	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC028	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2685944
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19980	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 029	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685945
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96540

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:08:18	SCALE 1	lmercer		Gross	84960 lb
Out	12/26/2014 12:08:18		lmercer		Tare	42260 lb
					Net	42700 lb
					Tons	21.35

Comments FISCHER-KF NC030/NC031

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.35	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.35	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.35	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 030	2. Page 1 of 1	
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685946 B. State Generator's ID AK00000228395	
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone	
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone	
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18800	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 031	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685947
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20260	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96541

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13
Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:10:55	SCALE 1	lmercer		Gross	83040 lb
Out	12/26/2014 12:10:55		lmercer		Tare	42680 lb
					Net	40360 lb
					Tons	20.18

Comments KISSLER-KF NC032/NC033

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.18	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.18	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.18	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 032	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685948
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19480	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 033	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685949
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 22570	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96542

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:14:47	SCALE 1	lmercer		Gross	83980 lb
Out	12/26/2014 12:14:47		lmercer		Tare	39580 lb
					Net	44400 lb
					Tons	22.20

Comments KISSLER*-KF NC034/NC035

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.20	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.20	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.20	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC034	2. Page 1 of 1
3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		A. Manifest Number 2685950 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486		C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338		E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457		G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 21080	P	Comments
b. Waste Name WM Profile # WM Profile number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 035	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685951 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD9871734S7	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 22220	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96543

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:18:57	SCALE 1	lmercer		Gross	84500 lb
Out	12/26/2014 12:18:57		lmercer		Tare	40200 lb
					Net	44300 lb
					Tons	22.15

Comments JB-KF NC036/NC037

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.15	Tons				ALASKA
2	GONDOLA 18.07/TON-GONDOL	100	22.15	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.15	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0316	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685952 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 037	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685953
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR	11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20120	P	Comments
	b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
	c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96544

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:21:21	SCALE 1	lmercer		Gross	69660 lb
Out	12/26/2014 12:21:21		lmercer		Tare	38080 lb
					Net	31580 lb
					Tons	15.79

Comments RTRANS-KF NC038/NC039

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.79	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.79	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.79	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WM ver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC039	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685955 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 038	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685954 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18140	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 9025

Original
Ticket# 96545

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator
In	12/26/2014 12:24:42	SCALE 1	lmercer
Out	12/26/2014 12:24:42		lmercer

Inbound

Gross	75900 lb
Tare	41460 lb
Net	34440 lb
Tons	17.22

Comments MARK HUNT-KF NC040/NC041

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.22	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.22	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.22	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 040	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685956
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR	11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18420	P	Comments
	b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
	c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 041	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685957
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20500	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96546

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:27:14	SCALE 1	lmercer		Gross	81380 lb
Out	12/26/2014 12:27:14		lmercer		Tare	41460 lb
					Net	39920 lb
					Tons	19.96

Comments KISSLER-KF NC042/NC043

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.96	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.96	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.96	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC042	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685958
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21360	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC043	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685959 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18340	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96772

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:31:49	SCALE 1	lmercer		Gross	75320 lb
Out	12/29/2014 12:31:49		lmercer		Tare	41040 lb
					Net	34280 lb
					Tons	17.14

Comments RTRANS-KF NC414/NC415

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.14	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.14	Tons				
3	FEA-FUEL,ENV,ADMIN	100	17.14	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96772
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:31:49	SCALE 1	lmercer		Gross	75320 lb
Out	12/29/2014 12:31:49		lmercer		Tare	41040 lb
					Net	34280 lb
					Tons	17.14

Comments RTRANS-KF NC414/NC415

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.14	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.14	Tons				
3	FEA-FUEL,ENV,ADMIN	100	17.14	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 414	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028995
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19700	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-501A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC415	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2028996

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19280	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-501B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3444008 7 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96776

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:54:51	SCALE 1	1mercer		Gross	81120 lb
Out	12/29/2014 12:54:51		1mercer		Tare	38080 lb
					Net	43040 lb
					Tons	21.52

Comments RTRANS-KF NC416/NC417

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.52	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.52	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.52	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4140	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028997
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MC-501C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3141087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X Steve Glasna	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 417	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028998 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19540	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 501D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96777
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34180057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:57:11	SCALE 1	lmercer		Gross	81560 lb
Out	12/29/2014 12:57:11		lmercer		Tare	41700 lb
					Net	39860 lb
					Tons	19.93

Comments RTRANS-KF NC418/NC419

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.93	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.93	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.93	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC418	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028999
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-501E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 419	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029000 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20160	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-501F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96779

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:03:47	SCALE 1	lmercer		Gross	79700 lb
Out	12/29/2014 13:03:47		lmercer		Tare	41040 lb
					Net	38660 lb
					Tons	19.33

Comments RTRANS-KF NC420/NC421

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.33	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.33	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.33	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 420	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029001
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	1820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-501G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X Steve Glassman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 421	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029002 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRING5 LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 X WM Profile # 110813OR	001	BA	18980	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-502A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3114 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96781

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:21:46	SCALE 1	lmercer		Gross	79580 lb
Out	12/29/2014 13:21:46		lmercer		Tare	38080 lb
					Net	41500 lb
					Tons	20.75

Comments RT - LM (NC422 & NC423)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.75	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.75	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.75	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 422	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029003

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110816OR	001	BA	1320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-502B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell Jones
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 423	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029004 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~1~~OR 31	001	BA	19820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-[redacted] 502C

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 3414008T EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles P. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 36782

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:25:24	SCALE 1	lmercer		Gross	82260 lb
Out	12/29/2014 13:25:24		lmercer		Tare	41700 lb
					Net	40560 lb
					Tons	20.28

Comments RT - LN (NC424 & NC425)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST/FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 424	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029005

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 — WM Profile # 110813OR	001	BA	19400	P	
b. — WM Profile #					
c. — WM Profile #					
d. — WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-502D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 425	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029006

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19780	P.	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-502E

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell Jones
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96787

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:47:36	SCALE 1	lmercer		Gross	79820 lb
Out	12/29/2014 13:47:36		lmercer		Tare	41040 lb
					Net	38780 lb
					Tons	19.39

Comments RT - LM (NC426/NC427)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.39	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.39	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.39	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 426	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029007

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19340	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-502F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles S. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 427	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029008 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20220	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC 502G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, Attn: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96788

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:53:13	SCALE 1	lmercer		Gross	79620 lb
Out	12/29/2014 13:53:13		lmercer		Tare	38080 lb
					Net	41540 lb
					Tons	20.77

Comments RT - LM (NC428/NC429)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.77	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.77	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.77	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 428	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029009
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19160	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-503A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COLEY	Charles L. Coley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 429	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029010

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19640	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-503B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3444087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	6	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96789

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 13:55:43	SCALE 1	lmercer		Gross	82020 lb
Out	12/29/2014 13:55:43		lmercer		Tare	41700 lb
					Net	40320 lb
					Tons	20.16

Comments RT - LM (NC430 & NC431)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pst	100	20.16	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.16	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.16	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 430	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2029011
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19480	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-503C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasma	Steve Glasma	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 431	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021984 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18780	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-503D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3641400887 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ken Funk	Ken Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Ken Funk	Ken Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96792

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 14:20:11	SCALE 1	lmercer		Gross	78480 lb
Out	12/29/2014 14:20:11		lmercer		Tare	38080 lb
					Net	40400 lb
					Tons	20.20

Comments RT - LM (NC432 & NC439)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.20	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.20	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.20	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 432	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2021985

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-5DBE

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CORLEY	Charles E. Corley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 439	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021973 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-503G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140057 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles T. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96794

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 14:31:05	SCALE 1	lmercer		Gross	73600 lb
Out	12/29/2014 14:31:05		lmercer		Tare	41040 lb
					Net	32560 lb
					Tons	16.28

Comments RT - LM (NC440 & NC441)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 440	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021974
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-504A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 3440007 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CORLEY	Charles F. Corley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC441	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2021975

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-504B

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: MOLLY WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	8	29	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN ERSTRAND	X	8	29	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96795

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58 Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 14:39:38	SCALE 1	lmercer		Gross	65800 lb
Out	12/29/2014 14:39:38		lmercer		Tare	41700 lb
					Net	24100 lb
					Tons	12.05

Comments RT - LM (NC442 / NC443)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.05	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	12.05	Tons				
3	FEA-FUEL,ENV,ADMIN	100	12.05	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R58

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 442	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021976
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-504C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414001 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	8	29	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	8	29	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 443	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021977 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MXC-504D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440069 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	8	29	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X Brian Ekstrand	8	29	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96798

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 15:10:20	SCALE 1	lmercer		Gross	62520 lb
Out	12/29/2014 15:10:20		lmercer		Tare	38080 lb
					Net	24440 lb
					Tons	12.22

Comments RT - LM (NC444 / NC445)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.22	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	12.22	Tons				
3	FEA-FUEL,ENV,ADMIN	100	12.22	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 444	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021978
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19340	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-504E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CORY	Charles R. Cory	8	29	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X	8	29	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 445	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2021979
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1880	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-504F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COLEY	Charles E. Coley	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96799

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 15:32:17	SCALE 1	lmercer		Gross	66600 lb
Out	12/29/2014 15:32:17		lmercer		Tare	41040 lb
					Net	25560 lb
					Tons	12.78

Comments RT -LM (NC446 / NC447)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.78	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	12.78	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	12.78	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4416	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9S06-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2021980

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	17330	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-504G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COOLEY	Charles L. Cooley	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
K. BRAND EKSTRAND	[illegible]	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 447	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2021981 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19100	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
505A MOC-506A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	8	24	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	8	24	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96800

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 15:35:40	SCALE 1	lmercer		Gross	63160 lb
Out	12/29/2014 15:35:40		lmercer		Tare	41700 lb
					Net	21460 lb
					Tons	10.73

Comments RT - LM (NC448 & NC449)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	10.73	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	10.73	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	10.73	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 448	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029017

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	1844	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-505B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 449	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029019 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-505C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96801

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58 Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 07:08:23	SCALE 1	lmercer		Gross	66800 lb
Out	12/30/2014 07:08:23		lmercer		Tare	41700 lb
					Net	25100 lb
					Tons	12.55

Comments RT - LM (NC450/NC451)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.55	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	12.55	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	12.55	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R55

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 450	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE P.O BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029020 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18480	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MDC-505D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A — Manifest Doc No. NC 457	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029021 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18080	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MCC-505E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COOLEY	Charles L. Cooley	10	7	19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12		

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96803

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 07:43:34	SCALE 1	lmercer		Gross	69480 lb
Out	12/30/2014 07:43:34		lmercer		Tare	41700 lb
					Net	27780 lb
					Tons	13.89

Comments RT - LM (NC452/NC454)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.89	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	13.89	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	13.89	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 452	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029022 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18620	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 505F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34H0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 454	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028973 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Additional Description

MDC 506A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CMIEL	Charles F. Cmiel	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96811

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 08:23:45	SCALE 1	lmercer		Gross	75260 lb
Out	12/30/2014 08:23:45		lmercer		Tare	41700 lb
					Net	33560 lb
					Tons	16.78

Comments RT - LM (NC453 & NC455)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.78	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.78	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.78	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 453	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029023
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18420	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 505G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Ann Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COLEY	X	8	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTROND	X Charles F. Coley	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 455	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029012
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19620	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 5060B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crotley	Charles L. Crotley	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Brian Ekstrand	X B. Ekstrand	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96813

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 09:08:02	SCALE 1	lmercer		Gross	81400 lb
Out	12/30/2014 09:08:02		lmercer		Tare	41700 lb
					Net	39700 lb
					Tons	19.85

Comments RT - LM (NC456 & NC457)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.85	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.85	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.85	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 456	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029013
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	1800	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 506C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles F. Crolley	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Brian Ekstrand	[signature]	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 457	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029014

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18860	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-5060

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name: CHUCK CORLEY | Signature "On behalf of": Charles L. Corley | Month 8 | Day 24 | Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Name: X BRIAN EKSTRAND | Signature: X | Month 8 | Day 24 | Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name: KIM FUNK | Signature: Kim Funk | Month 12 | Day 30 | Year 14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed Name: KIM FUNK | Signature: Kim Funk | Month 12 | Day 30 | Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96823

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 09:40:51	SCALE 1	lmercer		Gross	72420 lb
Out	12/30/2014 09:40:51		lmercer		Tare	41700 lb
					Net	30720 lb
					Tons	15.36

Comments RT - LM (NC458 & NC459)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.36	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.36	Tons				
3	FEA-FUEL,ENV,ADMIN	100	15.36	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R58

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 458	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029015 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 3 — WM Profile # 110813OR	001	BA	1860	P	
b. — WM Profile #					
c. — WM Profile #					
d. — WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 506E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell Jones ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROPY	Charles L. Cropy	8	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	8	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 459	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029016 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20100	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-506F

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles F. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96827

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 10:12:54	SCALE 1	lmercer		Gross	82500 lb
Out	12/30/2014 10:12:54		lmercer		Tare	41700 lb
					Net	40800 lb
					Tons	20.40

Comments RT - LM (NC460 & NC461)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.40	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.40	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.40	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	3	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4160	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029018

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC 506G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 4461	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2021960 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 507A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96831

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/30/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/30/2014 10:43:36	SCALE 1	lmercer		Gross	61660 lb
Out	12/30/2014 10:43:36		lmercer		Tare	41700 lb
					Net	19960 lb
					Tons	9.98

Comments RT - LM (NC464)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	9.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	9.98	Tons				
3	FEA-FUEL,ENV,ADMIN	100	9.98	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	1	Each				

R58

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC464	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2021964

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	4320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-507B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3444087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	30	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96547

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:30:01	SCALE 1	lmercer		Gross	79520 lb
Out	12/26/2014 12:30:01		lmercer		Tare	39860 lb
					Net	39660 lb
					Tons	19.83

Comments RTRANS-KF NC044/NC045

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pat	100	19.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.83	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.83	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 044	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685960 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2360	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-448B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles S. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 045	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685961

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	i. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19420	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-448C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96548

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01 Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:32:21	SCALE 1	lmercer		Gross	81760 lb
Out	12/26/2014 12:32:21		lmercer		Tare	40320 lb
					Net	41440 lb
					Tons	20.72

Comments FISCHER-KF NC046/NC047

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.72	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.72	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.72	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0446	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685962 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-448D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature / On behalf of	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC047	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685963
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19080	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-448E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96549

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:39:00	SCALE 1	lmercer		Gross	85860 lb
Out	12/26/2014 12:39:00		lmercer		Tare	42260 lb
					Net	43600 lb
					Tons	21.80

Comments FISCHER-KF NC048/NC049

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.80	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.80	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.80	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC048	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685964
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19360	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-448F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 049	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685965

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19580	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions MOC- 448G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Gasma	X [illegible]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96550

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:44:29	SCALE 1	lmercer		Gross	84860 lb
Out	12/26/2014 12:44:29		lmercer		Tare	39580 lb
					Net	45280 lb
					Tons	22.64

Comments KIESLER-KF NC050/NC051

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.64	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.64	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.64	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 050	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685966
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions MOC-449A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34400087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Coley	Chuck Coley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC051	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2685967
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-449B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96551

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:46:58	SCALE 1	lmercer		Gross	80500 lb
Out	12/26/2014 12:46:58		lmercer		Tare	42680 lb
					Net	37820 lb
					Tons	18.91

Comments KISSLER-KF NC052/NC053

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.91	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.91	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.91	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 052	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685968
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	4420	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-449C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 053	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685969
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18760	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-449D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96552

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:50:52	SCALE 1	lmercer		Gross	82040 lb
Out	12/26/2014 12:50:52		lmercer		Tare	40280 lb
					Net	41760 lb
					Tons	20.88

Comments JB-KF NC054/NC055

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 054	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685970
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-44AE

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 055	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685971
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone**
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	A100	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-449F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles F. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96553

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 12:55:35	SCALE 1	lmercer		Gross	82460 lb
Out	12/26/2014 12:55:35		lmercer		Tare	41460 lb
					Net	41000 lb
					Tons	20.50

Comments MH-KF NC056/NC057

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.50	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.50	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.50	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 056	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (if different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2685972

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-449G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0557	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685973
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18200	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-450A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COOLEY	Charles L. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 98554
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:00:09	SCALE 1	lmercer		Gross	79940 lb
Out	12/26/2014 13:00:09		lmercer		Tare	38080 lb
					Net	41860 lb
					Tons	20.93

Comments RTRANS-KF NC058/NC059

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.93	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.93	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.93	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

203WM ver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 058	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685974

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	17940	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions MOC-450B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Cooley	Charles H. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 059	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685975
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	17080	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOG-450C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glagna	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96555

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:04:18	SCALE 1	lmercer		Gross	81620 lb
Out	12/26/2014 13:04:18		lmercer		Tare	41460 lb
					Net	40160 lb
					Tons	20.08

Comments KISSLER-KF NC060/NC061

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.08	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.08	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.08	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 060	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685976

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19460	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-450D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles F. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0161	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685977
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19940	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions MOC-450E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96556

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:09:58	SCALE 1	lmercer		Gross	79320 lb
Out	12/26/2014 13:09:58		lmercer		Tare	39860 lb
					Net	39460 lb
					Tons	19.73

Comments RTRANS-KF NC062/NC063

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.73	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.73	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.73	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0102	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685978

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total Qty 20780	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Information
MOC-450F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles J. Cooley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. AK0000228395

Manifest Doc No. NC 063

2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2685979

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES

6. US EPA ID Number WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name R TRANSPORT, INC

8. US EPA ID Number WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19920	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description moc-450G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96558

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:15:10	SCALE 1	lmercer		Gross	87120 lb
Out	12/26/2014 13:15:10		lmercer		Tare	42260 lb
					Net	44860 lb
					Tons	22.43

Comments FISCHER-KF NC/066/NC067

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 01016	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685982
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	**F. Transporter's Phone: Transporter 2 Phone**
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	**H. State Facility Phone: Facility Phone**

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20620	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above

Additional Description
MOC-451C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles R. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC067	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685983
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-451D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles R. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96559

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:17:59	SCALE 1	lmercer		Gross	83600 lb
Out	12/26/2014 13:17:59		lmercer		Tare	39580 lb
					Net	44020 lb
					Tons	22.01

Comments KISSLER-KF NC068/NC069

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.01	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.01	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.01	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC068	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685984 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 18820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC 4516

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X B. [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 069	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685985
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19200	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-451F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3411400887 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles R. Crolley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96560

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:20:43	SCALE 1	lmercer		Gross	83840 lb
Out	12/26/2014 13:20:43		lmercer		Tare	42680 lb
					Net	41160 lb
					Tons	20.58

Comments KISSLER-KF NC070/NC071

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.58	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.58	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.58	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC070	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685986 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20560	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-451G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X Steve Glasson	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC071	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685987 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21120	P	
b. Waste Name WM Profile #					
c. Waste Name WM Profile #					
d. Waste Name WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOG452A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X Br	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96561

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:23:27	SCALE 1	lmercer		Gross	76720 lb
Out	12/26/2014 13:23:27		lmercer		Tare	40280 lb
					Net	36440 lb
					Tons	18.22

Comments JB-KF NC072/NC073

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.22	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.22	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.22	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC072	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685988 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2000	P	
b. Waste Name WM Profile #					
c. Waste Name WM Profile #					
d. Waste Name WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOG-452B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC073	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685989

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19180	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-452c

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	8	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96562

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01 Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:12:19	SCALE 1	lmercer		Gross	81640 lb
Out	12/26/2014 13:12:19		lmercer		Tare	40320 lb
					Net	41320 lb
					Tons	20.66

Comments FISHCER-KF ~~NC062/NC065~~ REPLACEMENT TICKET FOR TICKET # 96557 NC064/NC065

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

203 WM Driver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96557

Ph: 206 763 5025

Void
Incorrect Man #

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Container
Driver ADAM YOUNG
Check#
Billing# 0000213
Grid

Volume

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:12:19	SCALE 1	lmercer		Gross	81640 lb
Out	12/26/2014 13:12:19		lmercer		Tare	40320 lb
					Net	41320 lb
					Tons	20.66

Comments FISHCER-KF NC062/NC063

NEW Ticket 96562

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 064	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685980
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19780	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-451A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles J. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 065	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2685981
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20500	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-451B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140081 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96563

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:29:46	SCALE 1	lmercer		Gross	81220 lb
Out	12/26/2014 13:29:46		lmercer		Tare	41460 lb
					Net	39760 lb
					Tons	19.88

Comments MH-KF NC074/NC075

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC074	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2685990 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1740	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-452D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CORLEY	Charles L. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC075	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685991

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-452E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X Steve Gl	10	8	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96564

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110A31OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:32:18	SCALE 1	lmercer		Gross	79420 lb
Out	12/26/2014 13:32:18		lmercer		Tare	38080 lb
					Net	41340 lb
					Tons	20.67

Comments RTRANS-KF NC076/NC077

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.67	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.67	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.67	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

208WM ver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 0760	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685992

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	6920	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-452F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC077	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685993
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19180	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-452G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 7 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96565

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:42:02	SCALE 1	lmercer		Gross	82440 lb
Out	12/26/2014 13:42:02		lmercer		Tare	41460 lb
					Net	40980 lb
					Tons	20.49

Comments KISSLER-KF NC078/NC079

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.49	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.49	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.49	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 078	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685994

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19880	P	Comments
b. Waste Name WM Profile # Wm Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # Wm Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # Wm Profile Number	No.	Type	Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-453B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles A. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC079	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685995

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 19620	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-453A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles R. Crolley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96566

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:45:45	SCALE 1	lmercer		Gross	80620 lb
Out	12/26/2014 13:45:45		lmercer		Tare	39860 lb
					Net	40760 lb
					Tons	20.38

Comments RTRANS-KF NC080/NC081

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.38	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.38	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.38	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 080	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2685996

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20000	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4536

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles T. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC081	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685997 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21340	P	Comments
b. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC453D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crabey	Charles S. Crabey	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96567

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:48:13	SCALE 1	lmercer		Gross	85900 lb
Out	12/26/2014 13:48:13		lmercer		Tare	42260 lb
					Net	43640 lb
					Tons	21.82

Comments FISHCER-KF NC082/NC083

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.82	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.82	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.82	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC082	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685998 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1980	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-453E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles S. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 083	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2685999
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18780	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-453F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolcy	Charles F. Crolcy	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96568

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01 Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:51:51	SCALE 1	lmercer		Gross	67700 lb
Out	12/26/2014 13:51:51		lmercer		Tare	40320 lb
					Net	27380 lb
					Tons	13.69

Comments FISHCER-KF NC084/NC085

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.69	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	13.69	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	13.69	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 084	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686000

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19640	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-4536

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasse	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 085	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686001
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21320	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96569

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:54:22	SCALE 1	lmercer		Gross	85500 lb
Out	12/26/2014 13:54:22		lmercer		Tare	39580 lb
					Net	45920 lb
					Tons	22.96

Comments KISSLER-KF NC086/NC087

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.96	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.96	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.96	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 086	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686002
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19420	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles R. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 087	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686003

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19100	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96570

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 13:56:57	SCALE 1	lmercer		Gross	80320 lb
Out	12/26/2014 13:56:57		lmercer		Tare	40280 lb
					Net	40040 lb
					Tons	20.02

Comments JB-KF NC088/NC089

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.02	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.02	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.02	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 088	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686004

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	17760	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles F. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 089	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2686005 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt/ Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34110087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96571

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:02:38	SCALE 1	lmercer		Gross	81220 lb
Out	12/26/2014 14:02:38		lmercer		Tare	42680 lb
					Net	38540 lb
					Tons	19.27

Comments KISSLER-KF NC090/NC091

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.27	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.27	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.27	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC090	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686006

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone	Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID	State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID	State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone	Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18800	P	Comments
b. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROKEY	Charles R. Crokey	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 091	2. Page 1 of 1

3. Generator's Mailing Address:
U5ACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686007

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21760	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-454G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96572

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1109310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:05:30	SCALE 1	lmercer		Gross	72940 lb
Out	12/26/2014 14:05:30		lmercer		Tare	41460 lb
					Net	31480 lb
					Tons	15.74

Comments MH-KF NC092/NC093

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 092	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686008

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19120	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4SSA

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC093	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686009

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	6. **US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	8. **US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	10. **US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC4SSB

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96573

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:07:56	SCALE 1	lmercer		Gross	78440 lb
Out	12/26/2014 14:07:56		lmercer		Tare	38080 lb
					Net	40360 lb
					Tons	20.18

Comments RTRANS-KF NC094/NC095

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.18	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.18	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.18	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 094	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686010

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	P420	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4SSC

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 095	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686011

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19720	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4SSD

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96574

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:13:00	SCALE 1	lmercer		Gross	73200 lb
Out	12/26/2014 14:13:00		lmercer		Tare	41460 lb
					Net	31740 lb
					Tons	15.87

Comments KISSLER-KF NC096/NC097

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.87	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.87	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.87	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

203WM ver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC0910	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686012 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18120	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4SSE

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 097	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686013
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-4SSF	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96575
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:17:42	SCALE 1	lmercer		Gross	79180 lb
Out	12/26/2014 14:17:42		lmercer		Tare	39860 lb
					Net	39320 lb
					Tons	19.66

Comments RTRANS-KF NC098/NC100

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 098	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686014

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1800	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-455G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glazman	X Steve Glazman	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC100	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686016
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19260	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-456B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles P. Conley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X B. [illegible]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96576

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01 Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:20:12	SCALE 1	lmercer		Gross	81440 lb
Out	12/26/2014 14:20:12		lmercer		Tare	40320 lb
					Net	41120 lb
					Tons	20.56

Comments FISCHER-KF NC101/NC102

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.56	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.56	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.56	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 101	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686017 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19660	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-456C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 7 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 102	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686018

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	0260	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-456D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96577

PH: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:28:24	SCALE 1	lmercer		Gross	87300 lb
Out	12/26/2014 14:28:24		lmercer		Tare	39580 lb
					Net	47720 lb
					Tons	23.86

Comments KISSLER-KF NC103/NC104

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.86	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	23.86	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	23.86	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 103	2: Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686019 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20280	P	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-456E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles E. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 104	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686020

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19220	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-456F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96578

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:32:43	SCALE 1	lmercer		Gross	85740 lb
Out	12/26/2014 14:32:43		lmercer		Tare	42260 lb
					Net	43480 lb
					Tons	21.74

Comments FISHCER-KF NC107/NC108

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 107	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686023

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19720	P	Comments
b. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOG-457B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gla	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC108	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686024 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19460	P	
b. Waste Name WM Profile #	No	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile #	No	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile #	No	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-457c

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COLEY	Charles L. Coley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ticket# 96579
Ph: 206 763 5025

WASTE MANAGEMENT

BRISTOL ENVIRONMENTAL REMEDIA

Ticket Date	12/26/2014	Carrier	R TRANSPORT R TRANSPORT
Payment Type	Credit Account	Vehicle#	JB9T
Manual Ticket#		Container	
Route	AK	Driver	JAYME BARNES
Hauling Ticket#		Check#	
Destination		Billing#	0000273
PO#	34120057/110831OR	Grid	

Volume

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:41:13	SCALE 1	lmercer		Gross	83100 lb
Out	12/26/2014 14:41:13		lmercer		Tare	40280 lb
					Net	42820 lb
					Tons	21.41

Comments JB-KF NC109/NC110

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.41	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.41	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.41	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

202WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 109	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686025
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20220	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC. 457D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X Steve Glasna	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 110	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686026

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19640	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-457E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 98580

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:46:16	SCALE 1	lmercer		Gross	81340 lb
Out	12/26/2014 14:46:16		lmercer		Tare	42680 lb
					Net	38660 lb
					Tons	19.33

Comments KISSLER-KF NC105/NC111

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.33	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.33	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.33	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 105	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686021

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20400	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC 4566

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 111	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686027 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20360	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description moC-457F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Stee Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96581

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:49:10	SCALE 1	lmercer		Gross	83940 lb
Out	12/26/2014 14:49:10		lmercer		Tare	41460 lb
					Net	42480 lb
					Tons	21.24

Comments MH-KF NC112/NC113

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.24	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.24	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.24	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

...ARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 112	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686028
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-457G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day
Chuck Cooley	Charles L. Cooley	10	8

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day
X Steve Glasgow	X Steve Glasgow	10	8

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	D
Lori Mercer	Lori Mercer	12	7

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month
Mercer	Lori Mercer	12

...ITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 C...

...SPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 112	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686028 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 19820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-457G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 113	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686029
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19920	P	Comments
b. Waste Name WM Profile # Wml Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # Wml Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # Wml Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MDC-458A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles A. Crolley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96582

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:51:38	SCALE 1	lmercer		Gross	77860 lb
Out	12/26/2014 14:51:38		lmercer		Tare	38080 lb
					Net	39780 lb
					Tons	19.89

Comments RTRANS-KF NC114/NC115

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.89	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.89	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.89	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC114	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686030

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19980	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-458B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles F. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 115	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686031
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20760	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-458C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96583

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 14:54:00	SCALE 1	lmercer		Gross	81180 lb
Out	12/26/2014 14:54:00		lmercer		Tare	41460 lb
					Net	39720 lb
					Tons	19.86

Comments! KISSLER-KF NC116/NC117

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.86	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.86	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.86	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 116	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686032
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19320	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-458D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasm	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 117	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686033

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-458E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles R. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glazier	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96584

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:11:47	SCALE 1	lmercer		Gross	79420 lb
Out	12/26/2014 15:11:47		lmercer		Tare	39860 lb
					Net	39560 lb
					Tons	19.78

Comments RTRANS-KF NC118/NC119

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.78	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.78	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.78	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 118	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686034

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20340	P	Comments
b. Waste name WM Profile # WM Profile number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-458F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X Steve Glasson	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 119	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686035
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19860	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-458G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Ba	X Ba	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96585

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:17:05	SCALE 1	lmercer		Gross	82900 lb
Out	12/26/2014 15:17:05		lmercer		Tare	40320 lb
					Net	42580 lb
					Tons	21.29

Comments FISHCER-KF NC120/NC121

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.29	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.29	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.29	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC120	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686036
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19580	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-459A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On Behalf of"	Month	Day	Year
Chuck Crosley	Charles L Crosley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 121	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686037

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-459B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96586

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:23:57	SCALE 1	lmercer		Gross	80840 lb
Out	12/26/2014 15:23:57		lmercer		Tare	39580 lb
					Net	41260 lb
					Tons	20.63

Comments KISSLER-KF `NC122/NC123

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.63	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.63	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.63	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 122	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686038
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20640	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-459C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROSBY	Charles L. Crosby	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 123	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686039

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18740	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-459D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96587

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:27:51	SCALE 1	lmercer		Gross	86900 lb
Out	12/26/2014 15:27:51		lmercer		Tare	42260 lb
					Net	44640 lb
					Tons	22.32

Comments FISHCER-KF NC124/NC125

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.32	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.32	Tons				
3	FEA-FUEL,ENV,ADMIN	100	22.32	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 124	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686040 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-459E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X [illegible]	X [illegible]	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 125	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686041
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20260	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-459F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles T. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96588

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:30:23	SCALE 1	lmercer		Gross	84500 lb
Out	12/26/2014 15:30:23		lmercer		Tare	40280 lb
					Net	44220 lb
					Tons	22.11

Comments JB-KF NC126/NC127

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.11	Tons				ALASKA
2	GONDOLA 16.87/TON-GONDOL	100	22.11	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.11	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC126	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686042

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19400	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-459G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X [illegible]	X [illegible]	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC127	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686043 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-460A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96589

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13
Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:35:36	SCALE 1	lmercer		Gross	82360 lb
Out	12/26/2014 15:35:36		lmercer		Tare	42680 lb
					Net	39680 lb
					Tons	19.84

Comments KISSLER-KF NC128/NC129

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.84	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.84	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.84	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 128	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686044
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty.	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-460B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 129	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686045

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18860	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-460c

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96590

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:38:57	SCALE 1	lmercer		Gross	83100 lb
Out	12/26/2014 15:38:57		lmercer		Tare	41460 lb
					Net	41640 lb
					Tons	20.82

Comments MH-KF NC130/NC131

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.82	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.82	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.82	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 130	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686046
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19880	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-460D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140067 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles R. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 131	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686047
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 19340	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-460E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96591

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:42:37	SCALE 1	lmercer		Gross	80280 lb
Out	12/26/2014 15:42:37		lmercer		Tare	41460 lb
					Net	38820 lb
					Tons	19.41

Comments KISSLER-KF NC132/NC133

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.41	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.41	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.41	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 132	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686048

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-460F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 133	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686049
U5ACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19320	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-460G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140037 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmen	X Steve Glasmen	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96592

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 15:55:33	SCALE 1	lmercer		Gross	79120 lb
Out	12/26/2014 15:55:33		lmercer		Tare	39860 lb
					Net	39260 lb
					Tons	19.63

Comments RTRANS-KF NC135/NC134

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.63	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.63	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.63	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 135	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686051

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20600	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-461B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 134	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686050
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1840	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-461A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles F. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96593
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:01:27	SCALE 1	lmercer		Gross	84220 lb
Out	12/26/2014 16:01:27		lmercer		Tare	40320 lb
					Net	43900 lb
					Tons	21.95

Comments FISCHER-KF NC136/NC137

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.95	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.95	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.95	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1316	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686052
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20440	P	Comments
b. Waste Name WM Profile # WM Profile number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-461C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Crolley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 137	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686053
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID**
R TRANSPORT, INC	WAH000028338	**F. Transporter's Phone**
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	**H. State Facility Phone**

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20260	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-461D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	10	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	10	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96594

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:09:53	SCALE 1	lmercer		Gross	83340 lb
Out	12/26/2014 16:09:53		lmercer		Tare	39580 lb
					Net	43760 lb
					Tons	21.88

Comments KISSLER-KF NC138/NC139

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature B Gibson

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 138	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686054
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20480	P	Comments
b. Waste Name WM Profile # WM Profile Number	No	Type	Total Qty	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No	Type	Total Qty	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No	Type	Total Qty	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-461E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles L. Crosley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 139	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686055
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20440	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-461F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96595

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:16:57	SCALE 1	lmercer		Gross	86300 lb
Out	12/26/2014 16:16:57		lmercer		Tare	42260 lb
					Net	44040 lb
					Tons	22.02

Comments FISCHER-KF NC140/NC141

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.02	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.02	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.02	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 140	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686056
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19060	P	Comments
b. Waste Name WM Profile # WM Profile number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-461G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 141	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686057

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19240	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96596

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:22:39	SCALE 1	lmercer		Gross	82120 lb
Out	12/26/2014 16:22:39		lmercer		Tare	40280 lb
					Net	41840 lb
					Tons	20.92

Comments JB-KF NC142/NC143

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.92	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.92	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.92	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 142	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686058

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2040	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC462B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 143	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686059

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20900	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles F. Conley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96597

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:27:40	SCALE 1	lmercer		Gross	82480 lb
Out	12/26/2014 16:27:40		lmercer		Tare	42680 lb
					Net	39800 lb
					Tons	19.90

Comments KISSLER-KF NC144/NC145

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.90	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.90	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.90	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395 Manifest Doc No. NC144	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686060

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20980	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 145	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686061
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 1860	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROSBY	Charles L. Crosby	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96598

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:34:01	SCALE 1	lmercer		Gross	79720 lb
Out	12/26/2014 16:34:01		lmercer		Tare	41460 lb
					Net	38260 lb
					Tons	19.13

Comments MH-KF NC146/NC147

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.13	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.13	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.13	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1460	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686062

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19920	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 147	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686063

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19620	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-462G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96599

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator
In	12/26/2014 16:38:48	SCALE 1	lmercer
Out	12/26/2014 16:38:48		lmercer

Inbound

Gross	73540 lb
Tare	41460 lb
Net	32080 lb
Tons	16.04

Comments KISSLER-KF NC148/NC149

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.04	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.04	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.04	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 148	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686064

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21100	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-463A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 149	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686065

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20780	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
moc-463C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3014008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles F. Crosley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96600

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:45:45	SCALE 1	lmercer		Gross	80840 lb
Out	12/26/2014 16:45:45		lmercer		Tare	39860 lb
					Net	40980 lb
					Tons	20.49

Comments RTRANS-KF NC150/NC151

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.49	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.49	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.49	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 150	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686066 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID State Transporter ID D. Transporter's Phone Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID State Facility ID H. State Facility Phone Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above Additional Description moc-463B	**K. Disposal Location**		
	Cell		Level
	Grid		

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 151	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2686067 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions MOC-463D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROPLY	Charles T. Cropley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96601

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F01
Volume
Container
Driver ADAM YOUNG
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 16:53:33	SCALE 1	lmercer		Gross	81660 lb
Out	12/26/2014 16:53:33		lmercer		Tare	40320 lb
					Net	41340 lb
					Tons	20.67

Comments FISCHER-KF NC152/NC153

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.67	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.67	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.67	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 152	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2686068
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
NORTHLAND SERVICES	WAH000011486	State Transporter ID / Transporter 1 Phone

7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
R TRANSPORT, INC	WAH000028338	State Transporter ID / Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID / H. State Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	State Facility ID / Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2040	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-463E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 153	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686069
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20060	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-463F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96602

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 17:04:48	SCALE 1	lmercer		Gross	83080 lb
Out	12/26/2014 17:04:48		lmercer		Tare	39580 lb
					Net	43500 lb
					Tons	21.75

Comments KISSLER-KF NC154/NC155

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.75	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.75	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.75	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 154	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686070

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1930	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-463G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 155	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686071

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19120	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-464A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 00877 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96603

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 17:11:21	SCALE 1	lmercer		Gross	79980 lb
Out	12/26/2014 17:11:21		lmercer		Tare	42260 lb
					Net	37720 lb
					Tons	18.86

Comments FISCHER-KF NC156/NC157

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.86	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.86	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.86	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 156	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686072
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19860	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-464B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crolley	Charles L. Crolley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X On	X On	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 157	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2686073
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19020	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOG 464C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96604

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 17:18:18	SCALE 1	lmercer		Gross	83460 lb
Out	12/26/2014 17:18:18		lmercer		Tare	40280 lb
					Net	43180 lb
					Tons	21.59

Comments JB-KF NC158/NC159

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.59	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.59	Tons				
3	FEA-FUEL,ENV,ADMIN	100	21.59	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 158	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686074

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-46AD

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer			

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 159	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686075

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-464E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0089 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer			

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96605

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13
Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 17:20:51	SCALE 1	lmercer		Gross	82440 lb
Out	12/26/2014 17:20:51		lmercer		Tare	42680 lb
					Net	39760 lb
					Tons	19.88

Comments KISSLER-KF NC160/NC161

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 160	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686076

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20200	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-464F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1601	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686077

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19400	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-464G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles L. Crosley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96606

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 17:34:29	SCALE 1	lmercer		Gross	83360 lb
Out	12/26/2014 17:34:29		lmercer		Tare	41460 lb
					Net	41900 lb
					Tons	20.95

Comments MH-KF NC162/NC163

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.95	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.95	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.95	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1402	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686078

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14480	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-465A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	7	31	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Ba	X Ba	7	31	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 163	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686079

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2000	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC465B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140089 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96610

Ph: 206 763 5085

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:21:00	SCALE 1	lmercer		Gross	75520 lb
Out	12/27/2014 06:21:00		lmercer		Tare	41040 lb
					Net	34480 lb
					Tons	17.24

Comments RTRNS-KF NC164/NC165

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.24	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.24	Tons				
3	FEA-FUEL,ENV,ADMIN	100	17.24	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1164	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686080

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18600	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MDC-465C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0089 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles P. Conley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	28	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC165	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686081

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2000	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-465D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	28	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96611

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:24:34	SCALE 1	lmercer		Gross	80020 lb
Out	12/27/2014 06:35:30	SCALE 1	lmercer		Tare	42200 lb
					Net	37820 lb
					Tons	18.91

Comments RTRANS-KF NC166/NC167

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.91	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.91	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.91	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 1616	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686082

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-465E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 167	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686085

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20280	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-465F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96612

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:27:50	SCALE 1	lmercer		Gross	81820 lb
Out	12/27/2014 06:27:50		lmercer		Tare	39860 lb
					Net	41960 lb
					Tons	20.98

Comments RTRANS-KF NC168/NC169

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC168	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686086

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1980	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4656

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasser	X Steve Glasser	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 169	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686087
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone**
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	~~19480~~ 20460	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
466A
MOC-~~466B~~

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96614

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:37:47	SCALE 1	lmercer		Gross	83840 lb
Out	12/27/2014 06:37:47		lmercer		Tare	41460 lb
					Net	42380 lb
					Tons	21.19

Comments MH-KF NC172/NC173

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.19	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.19	Tons				
3	FEA-FUEL,ENV,ADMIN	100	21.19	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC172	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686090

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND 5ERVICE5	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID; D. Transporter's Phone
7. Transporter 2 Company Name R TRAN5PORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID; F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID; H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-466D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasner	X Steve Gla	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 173	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (if different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686091

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19900	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC: 466E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X	X	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96815

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:49:54	SCALE 1	lmercer		Gross	78440 lb
Out	12/27/2014 06:49:54		lmercer		Tare	41040 lb
					Net	37400 lb
					Tons	18.70

Comments RTRANS-KF NC174/NC175

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.70	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.70	Tons				
3	FEA-FUEL,ENV,ADMIN	100	18.70	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 174	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686092
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1940	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above

Additional Description

MOC 466F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COLEY	Charles L. Coley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 175	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (if different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2686093

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID; D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID; F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID; H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20660	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-466G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96507

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34180057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K13 Volume
Container
Driver KYLE SCHRADER
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:45:52	SCALE 1	lmercer		Gross	75060 lb
Out	12/26/2014 08:45:52		lmercer		Tare	42680 lb
					Net	32380 lb
					Tons	16.19

Comments KISSLER-KF NC497/NC498

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.19	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.19	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.19	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 497	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (if different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2766260

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	14120	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: 10-005E

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 7 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Coley	Charles P. Coley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 498	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2766261

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	15140	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: 10-004A

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Coley	Charles S. Coley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96616

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:55:02	SCALE 1	lmercer		Gross	82540 lb
Out	12/27/2014 06:55:02		lmercer		Tare	42200 lb
					Net	40340 lb
					Tons	20.17

Comments RTRANS-KF NC176/NC177

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.17	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.17	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.17	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 176	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686094
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19160	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-467A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC177	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686095

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19460	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-467B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96617

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator			
In	12/27/2014 07:00:36	SCALE 1	lmercer	Inbound	Gross	80300 lb
Out	12/27/2014 07:00:36		lmercer		Tare	39860 lb
					Net	40440 lb
					Tons	20.22

Comments RTRANS-KF NC178/NC179

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pat	100	20.22	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.22	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.22	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 178	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686096

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19080	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MDC-467C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	12	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 179	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686097

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21740	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-467D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96619

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07 Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:09:20	SCALE 1	lmercer		Gross	82260 lb
Out	12/27/2014 07:08:20		lmercer		Tare	42300 lb
					Net	39960 lb
					Tons	19.98

Comments FISCHER-KF NC182/NC183

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 182	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686100

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID: State Transporter ID

D. Transporter's Phone: Transporter 1 Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID: State Facility ID

H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19460	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-467G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles F. Crolley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 183	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686101
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
NORTHLAND SERVICES	WAH000011486	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
R TRANSPORT, INC	WAH000028338	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19760	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-468A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	X	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Brian Ekstrand	Charles L. Croley	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96620

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:11:27	SCALE 1	lmercer		Gross	85800 lb
Out	12/27/2014 07:11:27		lmercer		Tare	39580 lb
					Net	46220 lb
					Tons	23.11

Comments KISSLER-KF NC184/NC185

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.11	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	23.11	Tons				
3	FEA-FUEL,ENV,ADMIN	100	23.11	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC184	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686102
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: State Transporter ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID: State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19020	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-468B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 185	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686103 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1800	P	
b. Waste Name WM Profile #					
c. Waste Name WM Profile #					
d. Waste Name WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-468C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96821

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:13:44	SCALE 1	lmercer		Gross	81120 lb
Out	12/27/2014 07:13:44		lmercer		Tare	41460 lb
					Net	39660 lb
					Tons	19.83

Comments KISSLER-KF NC186/NC187

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.83	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.83	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 186	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686104

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19380	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-468D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 187	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2686105 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20640	P	
b. Waste Name WM Profile #					
c. Waste Name WM Profile #					
d. Waste Name WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC 468E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles S. Corley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96622

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:16:22	SCALE 1	lmercer		Gross	82500 lb
Out	12/27/2014 07:16:22		lmercer		Tare	41460 lb
					Net	41040 lb
					Tons	20.52

Comments MH-KF NC188/NC189

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.52	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.52	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.52	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 188	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686106
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19020	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-468F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 189	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686107
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19900	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-4686

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96623

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:24:05	SCALE 1	lmercer		Gross	81880 lb
Out	12/27/2014 07:24:05		lmercer		Tare	41040 lb
					Net	40840 lb
					Tons	20.42

Comments RTRANS-KF NC190/NC191

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pst	100	20.42	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.42	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.42	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 140	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686108

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 1 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18120	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-469A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Attn:
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3441008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles E. Conley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 191	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686109

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter 2 F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18520	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-469B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140089 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Oxley	Charles L. Oxley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96624

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:32:01	SCALE 1	lmercer		Gross	69360 lb
Out	12/27/2014 07:32:01		lmercer		Tare	42200 lb
					Net	27160 lb
					Tons	13.58

Comments RTRANS-KF NC192/NC193

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.58	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	13.58	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	13.58	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 192	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686110
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19980	P	Comments
b. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # Waste Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-469C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Joe Glasmann	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 193	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686111
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19440	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-469D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles L. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96625

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:39:04	SCALE 1	lmercer		Gross	82880 lb
Out	12/27/2014 07:39:04		lmercer		Tare	39860 lb
					Net	43020 lb
					Tons	21.51

Comments RTRANS-KF NC194/NC195

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.51	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.51	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 194	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686112
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19700	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-469E

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 195	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686113
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20960	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-469F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34440087 Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96626

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:56:27	SCALE 1	lmercer		Gross	85440 lb
Out	12/27/2014 07:56:27		lmercer		Tare	42260 lb
					Net	43180 lb
					Tons	21.59

Comments FISCHER-KF NC196/NC197

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.59	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.59	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.59	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 196	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686114
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19280	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MOC-473B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34440087 Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles J. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 197	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686115
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID: State Transporter ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	**E. State Transporter's ID: State Transporter ID**
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	**G. State Facility ID: State Facility ID**
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19780	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-473A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96627

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:15:44	SCALE 1	lmercer		Gross	81840 lb
Out	12/27/2014 08:15:44		lmercer		Tare	42300 lb
					Net	39540 lb
					Tons	19.77

Comments FISCHER-KF NC198/NC199

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.77	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.77	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.77	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	8	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 198	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2686116
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	18480	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MDC-473C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 199	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686084

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID: State Transporter ID

D. Transporter's Phone: Transporter 1 Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID: State Facility ID

H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20580	P	Comments
b. Waste Name WM Profile # Site Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-472G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96628

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:18:45	SCALE 1	lmercer		Gross	82820 lb
Out	12/27/2014 08:18:45		lmercer		Tare	40280 lb
					Net	42540 lb
					Tons	21.27

Comments JB-KF NC200/NC201

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.27	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.27	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.27	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 200	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686083

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	Total 20000	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-473D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Cooley	Charles R. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 201	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029135 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	14020	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-472F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: RUSSELL JAMES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140287 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96629

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:37:51	SCALE 1	lmercer		Gross	76600 lb
Out	12/27/2014 08:37:51		lmercer		Tare	39580 lb
					Net	37020 lb
					Tons	18.51

Comments KISSLER-KF NC202/NC203

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.51	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.51	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.51	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 202	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029136
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOG473E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN RUSSELL JAMES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
X Peter Sloan	X Peter Sloan	10	7	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal				
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 203	2. Page 1 of 1	

3. Generator's Mailing Address: U5ACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029137 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-472E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96630

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Cantainer
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:43:39	SCALE 1	lmercer		Gross	85380 lb
Out	12/27/2014 08:43:39		lmercer		Tare	41460 lb
					Net	43920 lb
					Tons	21.96

Comments KISSLER-KF NC204/NC205

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.96	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.96	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.96	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 204	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029138
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-473F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: MOLLY WELKER, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles F. Cooley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 205	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029139 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19600	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-472D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96631

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:49:04	SCALE 1	lmercer		Gross	83060 lb
Out	12/27/2014 08:49:04		lmercer		Tare	41460 lb
					Net	41600 lb
					Tons	20.80

Comments MH-KF NC206/NC207

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.80	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.80	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.80	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 2010	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029140 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1260	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-473G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: RUSSELL JAMES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glas	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 207	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029141 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1720	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-472C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: RUSSELL JAMES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order #: 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96632
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831QR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:52:13	SCALE 1	lmercer		Gross	80880 lb
Out	12/27/2014 08:52:13		lmercer		Tare	41040 lb
					Net	39840 lb
					Tons	19.92

Comments RTRANS-KF NC208/NC209

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.92	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.92	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.92	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 208	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769		2029142
		B. State Generator's ID	AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110818OR	001	BA	19380	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-474A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 209	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029143
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 472 B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96633

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 08:56:23	SCALE 1	lmercer		Gross	81160 lb
Out	12/27/2014 08:56:23		lmercer		Tare	42200 lb
					Net	38960 lb
					Tons	19.48

Comments RTRANS-KF NC210/NC211

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.48	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.48	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.48	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 210	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029144

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	18260	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MDC-474B

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: RUSSELL JAMES

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles F. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 211	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029145 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	19960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-472A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~ RUSSELL JAMES, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X Br	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Seattle,

Original
Ticket# 96634

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:03:39	SCALE 1	lmercer		Gross	81200 lb
Out	12/27/2014 09:03:39		lmercer		Tare	39860 lb
					Net	41340 lb
					Tons	20.67

Comments RTRANS-KF NC212/NC213

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.67	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.67	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.67	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 212	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029146 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-474C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles S. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X BRIAN EKSTRAND	X [signature]	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96635

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:14:34	SCALE 1	lmercer		Gross	86520 lb
Out	12/27/2014 09:14:34		lmercer		Tare	42260 lb
					Net	44260 lb
					Tons	22.13

Comments FISCHER-KF NC214/NC215

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.13	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.13	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.13	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 214	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029148
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-474D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~ Russell James, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles F. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Stace Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 215	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029149
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-471F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles R. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	17	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	17	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96636

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 341200057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07 Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:21:49	SCALE 1	lmercer		Gross	82720 lb
Out	12/27/2014 09:21:49		lmercer		Tare	42300 lb
					Net	40420 lb
					Tons	20.21

Comments FISCHER-KF NC216/NC217

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.21	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.21	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.21	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 216	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029150 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19060	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-474E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles R. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 217	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029151 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1890	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-471E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles R. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96637

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110031OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:25:32	SCALE 1	lmercer		Gross	74500 lb
Out	12/27/2014 09:25:32		lmercer		Tare	40280 lb
					Net	34220 lb
					Tons	17.11

Comments JB-KF NC218/NC219

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.11	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.11	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.11	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC218	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029152 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-474F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34110087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	12	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	12	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC219	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029153 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-474G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~ Russell James, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96676

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:44:02	SCALE 1	lmercer		Gross	76860 lb
Out	12/27/2014 12:44:02		lmercer		Tare	41460 lb
					Net	35400 lb
					Tons	17.70

Comments MH-KF NC296/NC297

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.70	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.70	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	17.70	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 2960	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029192
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 484B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles E. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 297	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029193
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19560	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC 484C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X Steve Glasson	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96677

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:47:17	SCALE 1	lmercer		Gross	71100 lb
Out	12/27/2014 12:47:17		lmercer		Tare	41040 lb
					Net	30060 lb
					Tons	15.03

Comments RTRANS-KF NC298/NC299

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.03	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.03	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	15.03	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 298	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029194
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 484D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 299	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029195 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 484E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russel James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles S. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96678

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:51:50	SCALE 1	lmercer		Gross	62600 lb
Out	12/27/2014 12:51:50		lmercer		Tare	42200 lb
					Net	20400 lb
					Tons	10.20

Comments RTRANS-KF NC300/NC301

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	10.20	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	10.20	Tons				
3	FEA-FUEL,ENV,ADMIN	100	10.20	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC300	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029196

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110818OR 31	001	BA	19580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC 484F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	09	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	09	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC301	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029197 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-484G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96679

Ph: 206 763 5025

Customer Name	BRISTOL ENVIRONMENTAL REMEDIA	Carrier	R TRANSPORT R TRANSPORT
Ticket Date	12/27/2014	Vehicle#	R65
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	BRIAN MONASMITH
Route	AK	Check#	
Hauling Ticket#		Billing#	0000273
Destination		Grid	
PO#	34120057/110831OR		

Volume

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:12:26	SCALE 1	lmercer		Gross	79940 lb
Out	12/27/2014 13:12:26		lmercer		Tare	39860 lb
					Net	40080 lb
					Tons	20.04

Comments RTRANS-KF NC302/NC303

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.04	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.04	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.04	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 302	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029199
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2020	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-485A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 303	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9S06-6898

4. Generator's Phone 907-7S3-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029200

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES

6. US EPA ID Number WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name R TRANSPORT, INC

8. US EPA ID Number WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110811OR	001	BA	20640	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-485B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96680

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:17:02	SCALE 1	lmercer		Gross	86500 lb
Out	12/27/2014 13:17:02		lmercer		Tare	42260 lb
					Net	44240 lb
					Tons	22.12

Comments FISCHER-KF NC304/NC305

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.12	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.12	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.12	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC304	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029201 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~K~~31OR	001	BA	19740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-485C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 305	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029202 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Additional Descriptions

MOC-485D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles R. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 96681

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:19:41	SCALE 1	lmercer		Gross	76500 lb
Out	12/27/2014 13:19:41		lmercer		Tare	40200 lb
					Net	36300 lb
					Tons	18.15

Comments JB-KF NC306/NC307

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.15	Tons				ALASKA
2	GONDOLA 18.67/TON-GONDOL	100	18.15	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.15	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC3016	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029203 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-485E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: MOLLY WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: RUSSELL JAMES

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Stan Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC307	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9S06-6898

4. Generator's Phone 907-7S3-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029204

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813~~0~~31R	001	BA	1920	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-485F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russel James
~~ATTN: MOLLY WELKER;~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96682

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:35:06	SCALE 1	1mercer		Gross	81040 lb
Out	12/27/2014 13:35:06		1mercer		Tare	42300 lb
					Net	38740 lb
					Tons	19.37

Comments FISCHER-KF NC308/NC309

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.37	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.37	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.37	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC308	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029205 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19160	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-485G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC309	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029206

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~8~~OR 31	001	BA	21320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-4816A

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96683

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:41:59	SCALE 1	lmercer		Gross	82700 lb
Out	12/27/2014 13:41:59		lmercer		Tare	39580 lb
					Net	43120 lb
					Tons	21.56

Comments KISSLER-KF NC310/NC311

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.56	Tons				ALASKA
2	GONDOLA 10.87/TON-GONDOL	100	21.56	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.56	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 310	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029207 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRING5 LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above MOC-486B	K. Disposal Location Cell / Level Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 311	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029208 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~8~~31OR	001	BA	20630	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above MOC-486C	K. Disposal Location Cell / Level Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96684

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 13:50:00	SCALE 1	lmercer		Gross	79520 lb
Out	12/27/2014 13:50:00		lmercer		Tare	41460 lb
					Net	38060 lb
					Tons	19.03

Comments KISSLER-KF NC312/NC313

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.03	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.03	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.03	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 312	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029209
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20180	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-486D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC313	2. Page 1 of 1

3. Generator's Mailing Address: U5ACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029210 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-486E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK COOLEY	Charles P. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96685

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:03:54	SCALE 1	lmercer		Gross	89680 lb
Out	12/27/2014 14:03:54		lmercer		Tare	41460 lb
					Net	48220 lb
					Tons	24.11

Comments MH-KF NC314/NC315

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	24.11	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	24.11	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	24.11	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 314	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029211
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19940	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MCC-4816	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X Steve Glassman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 315	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029212 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-487A

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96686

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:06:16	SCALE 1	lmercer		Gross	79560 lb
Out	12/27/2014 14:06:16		lmercer		Tare	41040 lb
					Net	38520 lb
					Tons	19.26

Comments RTRANS-KF NC316/NC317

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.26	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.26	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.26	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 316	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029213
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2560	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-486G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC317	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029214

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18640	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC 487B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96687

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:09:20	SCALE 1	lmercer		Gross	81880 lb
Out	12/27/2014 14:09:20		lmercer		Tare	42200 lb
					Net	39680 lb
					Tons	19.84

Comments RTRANS-KF NC318/NC319

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.84	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.84	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.84	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 318	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029215 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 37 WM Profile # 110813OR	001	BA	19340	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 487C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 319	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029216 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19880	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 487D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3/140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96688

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:18:17	SCALE 1	lmercer		Gross	79540 lb
Out	12/27/2014 14:18:17		lmercer		Tare	39860 lb
					Net	39680 lb
					Tons	19.84

Comments RTRANS-KF NC320/NC321

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.84	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.84	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.84	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Brian Monasmith

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC320	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029217 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # ~~110813OR~~ 31	001	BA	19840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-487E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 321	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029218

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19340	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-487F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140081 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96889

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:21:03	SCALE 1	lmercer		Gross	86860 lb
Out	12/27/2014 14:21:03		lmercer		Tare	42260 lb
					Net	44600 lb
					Tons	22.30

Comments FISCHER-KF NC322/NC323

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.30	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.30	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.30	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 322	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029219

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19440	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MDC-487G

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Chuck L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 323	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029220
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-488A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96690

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:29:38	SCALE 1	lmercer		Gross	81540 lb
Out	12/27/2014 14:29:38		lmercer		Tare	40280 lb
					Net	41260 lb
					Tons	20.63

Comments JB-KF NC324/NC325

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.63	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.63	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.63	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC324	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029221 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	14840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-488B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 325	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029222 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-488C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glossman	X Steve Glos	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96691

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:40:50	SCALE 1	lmercer		Gross	82340
Out	12/27/2014 14:40:50		lmercer		Tare	42300
					Net	40040
					Tons	20.

Comments FISCHER-KP NC326/NC327

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Orig
1	Daily Cover-PCS-Tons-Pet	100	20.02	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.02	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.02	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	8	Each				

Total Tax
Total Ticket

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 326	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029223 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19540	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-488D

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC327	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029224 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20440	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC: 488E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3114087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96692

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:50:53	SCALE 1	lmercer		Gross	81720 lb
Out	12/27/2014 14:50:53		lmercer		Tare	39580 lb
					Net	42140 lb
					Tons	21.07

Comments KISSLER-KF NC328/NC329

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.07	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.07	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.07	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 328	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029225 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	21200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-488F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 329	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029226
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	21680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-488G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 7 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosby	Chuck Crosby	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96694

Ph: 206 763 5025

Customer Name	BRISTOL ENVIRONMENTAL REMEDIA	Carrier	R TRANSPORT R TRANSPORT
Ticket Date	12/27/2014	Vehicle#	K11 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	DAVE BROWN
Route	AK	Check#	
Hauling Ticket#		Billing#	0000273
Destination		Grid	

PO# 34120057/1108310R

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:53:01	SCALE 1	lmercer		Gross	81520 lb
Out	12/27/2014 14:53:01		lmercer		Tare	41460 lb
					Net	40060 lb
					Tons	20.03

Comments KISSLER-KF NC330/NC331 REPLACEMENT TICKET FOR TICKET # 96693

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.03	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.03	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.03	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96693

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 14:53:01	SCALE 1	1mercer		Gross	81520 lb
Out	12/27/2014 14:53:01		1mercer		Tare	41460 lb
					Net	40060 lb
					Tons	20.03

Comments KISSLER-KF NC332/NC332

VOID
Incorrect Manifest
S/B NC330/NC331
New # 96694

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.03	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.03	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.03	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 330	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029227

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID / H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MDC-489A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~ Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 331	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029228 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MDC-489B

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96695

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# Ki2T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 06:31:45	SCALE 1	lmercer		Gross	82820 lb
Out	12/27/2014 06:31:45		lmercer		Tare	39580 lb
					Net	43240 lb
					Tons	21.62

Comments KISSLER-KF NC170/NC171 REPLACEMENT TICKET FOR TICKET # 96613

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.62	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.62	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.62	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96613

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# M12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

Incorrect Manifest #'s

	Time	Scale	Operator
In	12/27/2014 06:31:45	SCALE 1	lmercer
Out	12/27/2014 06:31:45		lmercer

Inbound	
Gross	82820 lb
Tare	39580 lb
Net	43240 lb
Tons	21.62

Comments KIBSLER-KF NC168/NC169

NEW TICKET 96695

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.62	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.62	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.62	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

K4

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC170	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686088 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19180	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-466B

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 171	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2686089
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	19820	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-466C

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96696

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCKMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:05:33	SCALE 1	lmercer		Gross	85440 lb
Out	12/27/2014 11:05:33		lmercer		Tare	42260 lb
					Net	43180 lb
					Tons	21.59

Comments FISCHER-KF NC250/NC251 REPLACEMENT TICKET FOR TICKET # 96653

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.59	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.59	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.59	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96653

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

Volume

	Time	Scale	Operator			
In	12/27/2014 11:05:33	SCALE 1	lmercer	Inbound	Gross	85440 lb
Out	12/27/2014 11:05:33		lmercer		Tare	42260 lb
					Net	43180 lb
					Tons	21.59

Comments FISCHER-KF NC350/NC251

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.59	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.59	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.59	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 250	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029184

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	180lb	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-477E

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name: Chuck Croley | Signature "On behalf of": Charles L. Croley | Month 10 | Day 7 | Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Name: X Steve Glasman | Signature: X [signature] | Month 10 | Day 7 | Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name: Lori Mercer | Signature: Lori Mercer | Month 12 | Day 27 | Year 14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed Name: Lori Mercer | Signature: Lori Mercer | Month 12 | Day 27 | Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 251	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029186 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 31 110813OR	001	BA	19520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-477F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96697

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:18:10	SCALE 1	lmercer		Gross	84180 lb
Out	12/27/2014 15:16:10		lmercer		Tare	41460 lb
					Net	42720 lb
					Tons	21.36

Comments MH-KF NC332/NC333

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.36	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.36	Tons				
3	FEA-FUEL,ENV,ADMIN	100	21.36	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC332	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029229 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	2110	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-489C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles R. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X Steve Glasgow	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC333	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029230

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19140	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-489D

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glisman	X Steve Glisman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96698

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:21:40	SCALE 1	lmercer		Gross	80780 lb
Out	12/27/2014 15:21:40		lmercer		Tare	41040 lb
					Net	39740 lb
					Tons	19.87

Comments RTRANS-KF NC334/NC335

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.87	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.87	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.87	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 334	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029231 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18080	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-489E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 335	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029232
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-489F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~ Attn: Russell James, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96699
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:25:10	SCALE 1	lmercer		Gross	78640 lb
Out	12/27/2014 15:25:10		lmercer		Tare	42200 lb
					Net	36440 lb
					Tons	18.22

Comments RTRANS-KF NC336/NC337

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.22	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.22	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.22	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 337	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029234 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-490A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X Steve Glassman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 336	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029233
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-489G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	11	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96700

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:46:06	SCALE 1	lmercer		Gross	80420 lb
Out	12/27/2014 15:46:06		lmercer		Tare	39860 lb
					Net	40560 lb
					Tons	20.28

Comments RTRANS-KF NC338/NC339

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 338	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029235 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1900	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-490B

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 339	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029236

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC 490C

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96701

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:48:58	SCALE 1	lmercer		Gross	83060 lb
Out	12/27/2014 15:48:58		lmercer		Tare	42260 lb
					Net	40800 lb
					Tons	20.40

Comments FISCHER-KF NC340/NC341

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.40	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.40	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.40	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tony

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 340	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029237
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-7S3-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19900	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-490D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC341	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029238 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-490E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosby	Charles L. Crosby	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96702

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:56:13	SCALE 1	lmercer		Gross	86280 lb
Out	12/27/2014 15:56:13		lmercer		Tare	42300 lb
					Net	43980 lb
					Tons	21.99

Comments FISCHER-KF NC342/NC343

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.99	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.99	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.99	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 342	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029239
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19360	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-490F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 343	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029240 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # ~~110818OR~~ 31	001	BA	19600	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-490G

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96703

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:03:33	SCALE 1	lmercer		Gross	81860 lb
Out	12/27/2014 16:03:33		lmercer		Tare	39580 lb
					Net	42280 lb
					Tons	21.14

Comments KISSLER-KF NC344/NC345

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.14	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.14	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.14	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature B Gibson

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC344	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029241
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRAN5PORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-491A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Chuck Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasher	X Steve Glasher	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC345	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029242
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	PB40	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-491B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosby	Charles E. Crosby	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96704
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 07:04:51	SCALE 1	lmercer		Gross	85740 lb
Out	12/27/2014 07:04:51		lmercer		Tare	42260 lb
					Net	43480 lb
					Tons	21.74

Comments FISCHER-KF NC180/NC181 REPLACEMENT TICKET FOR TICKET # 96618

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96618

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Container
Driver TON LOCHMANN
Check#
Billing# 0000273
Grid

Volume

	Time	Scale	Operator
In	12/27/2014 07:04:51	SCALE 1	lmercer
Out	12/27/2014 07:04:51		lmercer

Inbound	
Gross	85740 lb
Tare	42260 lb
Net	43480 lb
Tons	21.74

Comments FISCHER-KF NC180/NC181

Incorrect manifest #'s

NEW TICKET 96704

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 180	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2686098

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	21460	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-467E

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 PO Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles J. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Gl	10	8	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 181	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2686099 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	20220	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-467F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles R. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96705

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110A31OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:31:56	SCALE 1	lmercer		Gross	83260 lb
Out	12/27/2014 09:31:56		lmercer		Tare	41460 lb
					Net	41800 lb
					Tons	20.90

Comments KISSLER-KF NC322/NC223 REPLACEMENT TICKET FOR TICKET # 96639

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.90	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.90	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.90	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

ver's Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96639
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

VOID

Incorrect Manifest #'s

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:31:56	SCALE 1	1mercer		Gross	83260 lb
Out	12/27/2014 09:31:56		1mercer		Tare	41460 lb
					Net	41800 lb
					Tons	20.90

Comments KISSLER-KF NCN222/NC223

NEW Ticket 96705

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.90	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.90	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.90	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

iver's Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC222	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029156 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18940	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 471C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414008-1 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles E. Crosley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 223	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029157

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	2000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-475B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501
ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name: Chuck Croley | Signature "On behalf of": Charles F. Croley | Month 10 | Day 8 | Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Name: X Steve Glasman | Signature: X Steve Glasman | Month 10 | Day 8 | Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name: Lori Mercer | Signature: Lori Mercer | Month 12 | Day 27 | Year 14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed Name: Lori Mercer | Signature: Lori Mercer | Month 12 | Day 27 | Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96706

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:12:31	SCALE 1	lmercer		Gross	82420 lb
Out	12/27/2014 11:12:31		lmercer		Tare	40280 lb
					Net	42140 lb
					Tons	21.07

Comments JB-KF NC252/NC253 REPLACEMENT TICKET FOR TICKET # 96654

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.07	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.07	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.07	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

20SWM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96654

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB3T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

VOID
Incorrect manifest #'s

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:12:31	SCALE 1	lmercer		Gross	82420 lb
Out	12/27/2014 11:12:31		lmercer		Tare	40280 lb
					Net	42140 lb
					Tons	21.07

Comments JB-KF NC252/NC2532

NEW# 96706 KF

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.07	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.07	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.07	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 252	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029107
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1954	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-477G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 253	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029108
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1920	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-478A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96707

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:11:10	SCALE 1	lmercer		Gross	83480 lb
Out	12/27/2014 16:11:10		lmercer		Tare	41460 lb
					Net	42020 lb
					Tons	21.01

Comments KISSLER-KF NC346/NC347

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.01	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.01	Tons				
3	FEA-FUEL,ENV,ADMIN	100	21.01	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 3440	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029126 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 491C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 347	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029127

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
NORTHLAND SERVICES	WAH000011486	

7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
R TRANSPORT, INC	WAH000028338	

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID / H. State Facility Phone
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRING5 LANE ARLINGTON, OR 97812	ORD987173457	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20440	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-LPIID

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles T. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96708

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:20:30	SCALE 1	lmercer		Gross	89120 lb
Out	12/27/2014 16:20:30		lmercer		Tare	41460 lb
					Net	47660 lb
					Tons	23.83

Comments MH-KF NC348/NC349

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	23.83	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	23.83	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 348	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029128 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-491E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC349	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029129
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-491F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles C. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96709

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:29:00	SCALE 1	lmercer		Gross	84420 lb
Out	12/27/2014 16:29:00		lmercer		Tare	41040 lb
					Net	43380 lb
					Tons	21.69

Comments RTRANS-KF NC350/NC351

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.69	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.69	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.69	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

20SWM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 350	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029130
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-491 G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cloley	Charles L. Cloley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC351	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029131

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20900	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-492A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	12	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96710

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

Volume

	Time	Scale	Operator
In	12/27/2014 16:31:18	SCALE 1	lmercer
Out	12/27/2014 16:31:18		lmercer

Inbound

Gross	79940 lb
Tare	42200 lb
Net	37740 lb
Tons	18.87

Comments RTRANS-KF NC352/NC353

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
								ALASKA
1	Daily Cover-PCS-Tons-Pet	100	18.87	Tons				
2	GONDOLA 18.87/TON-GONDOL	100	18.87	Tons				
3	FEA-FUEL,ENV,ADMIN	100	18.87	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC352	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029132
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~8~~OR 31	001	BA	19280	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-492B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 553	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029133 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20060	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-492C

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Stan Glasna	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96711
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:34:25	SCALE 1	lmercer		Gross	81660
Out	12/27/2014 16:34:35		lmercer		Tare	39860
					Net	41800
					Tons	20.

Comments RTRANS-KF NC354/NC355

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origi
1	Daily Cover-PCS-Tons-Pet	100	20.90	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.90	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.90	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC354	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-7S3-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029134 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-492D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles E. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 355	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029034 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19300	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-492E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cmley	Charles L. Cmley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96712

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:38:42	SCALE 1	lmercer		Gross	84520 lb
Out	12/27/2014 16:38:42		lmercer		Tare	42260 lb
					Net	42260 lb
					Tons	21.13

Comments FISCHER-KF NC356/NC357

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.13	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.13	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.13	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 356	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029024 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813~~2~~31OR	001	BA	19780	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-492F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles P. Croley	10	7	~~10~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	~~10~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 357	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029025
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-492G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell Jones ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crotley	Charles F. Crotley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96713

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 16:43:28	SCALE 1	lmercer		Gross	78900 lb
Out	12/27/2014 16:43:28		lmercer		Tare	42300 lb
					Net	36600 lb
					Tons	18.30

Comments FISCHER-KF NC358/NC359

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.30	Tons				ALASKA
2	GONDOLA 18.67/TON-GONDOL	100	18.30	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.30	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 358	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029026
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-493A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 359	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029027
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110815OR 31	001	BA	20940	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-493B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	~~10~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glass	X [signature]	10	7	~~10~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Original
Ticket# 96714

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Container
Driver BRIAN BIBSON
Check#
Billing# 0000273
Grid

Volume

	Time	Scale	Operator
In	12/27/2014 16:46:19	SCALE 1	lmercer
Out	12/27/2014 16:46:19		lmercer

Inbound

Gross	81820
Tare	39580
Net	42240
Tons	2

Comments KISSLER-KF NC360/NC361

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Ori
1	Daily Cover-PCS-Tons-Pet	100	21.12	Tons				ALASK
2	GONDOLA 18.87/TON-GONDOL	100	21.12	Tons				ALASK
3	FEA-FUEL,ENV,ADMIN	100	21.12	Tons				ALASK
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASK
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASK

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 360	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029028
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20100	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-493C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC3161	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029029 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MDC-493D

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96715

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 15:56:22	SCALE 1	lmercer		Gross	80960 lb
Out	12/27/2014 16:56:22		lmercer		Tare	41460 lb
					Net	39500 lb
					Tons	19.75

Comments KISSLER-KF NC362/NC363

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.75	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.75	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.75	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 362	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029030 B. State Generator's ID. AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19680	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-493E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glazman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 363	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029031

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-494F RS 493F

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles T. Cooley	10	7	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96716

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:01:16	SCALE 1	lmercer		Gross	88120 l
Out	12/27/2014 17:01:16		lmercer		Tare	41460 l
					Net	44660 l
					Tons	22.3

Comments MH-KF NC364/NC365

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.33	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.33	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.33	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 364	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029032
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-493G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles E. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 365	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029033
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2020	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Pages Attached MDC-494A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles F. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96638

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:29:26	SCALE 1	lmercer		Gross	79520 lb
Out	12/27/2014 09:29:26		lmercer		Tare	39580 lb
					Net	39940 lb
					Tons	19.97

Comments KISSLER-KF NC220/NC221

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.97	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.97	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.97	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC220	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029154
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-471D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: RUSSELL JAMES

Purchase Order # 34440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC221	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029155
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-7S3-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19160	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 475A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasner	X Steve Glasner	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96640

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 09:36:31	SCALE 1	lmercer		Gross	82820 lb
Out	12/27/2014 09:36:31		lmercer		Tare	41460 lb
					Net	41360 lb
					Tons	20.68

Comments MH-KF NC224/NC225

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.68	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.68	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.68	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

IAGEMENT

ARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 224	2. Page 1 of 1

r's Mailing Address: DISTRICT, NE CAPE 8, CEPOA-EN-EE-ER 06-6898 's Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029158
		B. State Generator's ID AK00000228395

er 1 Company Name ND SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
er 2 Company Name ORT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
d Facility Name and Site Address RIDGE LANDFILL AR SPRINGS LANE I, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

on of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT	001	BA	19900	P	
WM Profile # 11081~~3~~31OR					
WM Profile #					
WM Profile #					
WM Profile #					

al Descriptions for Materials Listed Above MOC-471B	K. Disposal Location			
	Cell		Level	
	Grid			

Handling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~Y WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

der # 34140087 EMERGENCY CONTACT / PHONE NO.:

TOR'S CERTIFICATE:

tify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and escribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e Chuck Croley	Signature "On behalf of" Charles L. Croley	Month 10	Day 8	Year 14

rter 1 Acknowledgement of Receipt of Materials

lame Steve Glasman	Signature X Steve Glasman	Month 10	Day 8	Year 14

rter 2 Acknowledgement of Receipt of Materials

lame ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

te of Final Treatment/Disposal

behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

lame ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

ATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 225	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE , CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029159
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT	001	BA	19120	P	
WM Profile # 110813OR 31					
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC 475C	Cell		Level	
	Grid			

andling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn Russell James ~~WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
Chuck Croley	Signature "On behalf of" Charles L. Croley	10	8	14

er 1 Acknowledgement of Receipt of Materials

		Month	Day	Year
me. Steve Glasman	Signature X Steve Glasman	10	8	14

er 2 Acknowledgement of Receipt of Materials

		Month	Day	Year
me i Mercer	Signature Jori Mercer	12	27	14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all 's, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
me i Mercer	Signature Jori Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96641

Ph: 206 763 5025

ENT

me BRISTOL ENVIRONMENTAL REMEDIA
12/27/2014
e Credit Account
et#

ket#

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

120057/110831OR

	Scale	Operator	Inbound		
2014 09:45:43	SCALE 1	lmercer		Gross	81140 lb
2014 09:45:43		lmercer		Tare	41040 lb
				Net	40100 lb
				Tons	20.05

RTRANS-KF NC226/NC227

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	20.05	Tons				ALASKA
A 18.87/TON-BONDOL	100	20.05	Tons				ALASKA
EL,ENV,ADMIN	100	20.05	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

nature

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc No.: NC 226

2. Page 1 of 1

r's Mailing Address:
ISTRICT, NE CAPE
8, CEPOA-EN-EE-ER
06-6898
s Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029160

B. State Generator's ID: AK00000228395

r 1 Company Name: ID SERVICES
6. US EPA ID Number: WAH000011486
C. State Transporter's ID
D. Transporter's Phone

r 2 Company Name: RT, INC
8. US EPA ID Number: WAH000028338
E. State Transporter's ID
F. Transporter's Phone

l Facility Name and Site Address: RIDGE LANDFILL, R SPRINGS LANE, , OR 97812
10. US EPA ID Number: ORD987173457
G. State Facility ID
H. State Facility Phone

on of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19.00	P	
WM Profile #					
WM Profile #					
WM Profile #					

l Descriptions for Materials Listed Above
MOC-471A

K. Disposal Location
Cell | Level
Grid

andling Instructions and Additional Information
AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501
Attn: Russell James

er # 34140087
EMERGENCY CONTACT / PHONE NO.:

FOR'S CERTIFICATE:
fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Crolley	10	8	14

ter 1 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
Steve Glasman	X Steve Glasman	10	8	14

ter 2 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
ori Mercer	Jori Mercer	12	27	14

e of Final Treatment/Disposal
ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame	Signature	Month	Day	Year
ori Mercer	Jori Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC227	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 96-6898 s Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029161
		B. State Generator's ID AK00000228395

r 1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
r 2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address RIDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	21360	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-475D	Cell		Level	
	Grid			

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34440087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

ChuckCrolley	Signature "On behalf of" Charles L. Crolley	Month 10	Day 15	Year 14

ter 1 Acknowledgement of Receipt of Materials

ame Brian Ekstrand	Signature X Br	Month 10	Day 15	Year 14

ter 2 Acknowledgement of Receipt of Materials

ame i Mercer	Signature Joi Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all vs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame i Mercer	Signature Joi Mercer	Month 12	Day 27	Year 14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

ENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96642

me BRISTOL ENVIRONMENTAL REMEDIA
12/27/2014
e Credit Account
et#
ket#
120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Scale	Operator	Inbound		
2014 09:52:41	SCALE 1	lmercer		Gross	81320 lb
2014 09:52:41		lmercer		Tare	42200 lb
				Net	39120 lb
				Tons	19.56

RTRANS-KF NC228/NC229

	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	19.56	Tons				ALASKA
A 18.87/TON-GONDOL	100	19.56	Tons				ALASKA
EL,ENV,ADMIN	100	19.56	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

nature

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 228	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029162
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19780	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-470G	Cell		Level	
	Grid			

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~WELKER, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501~~

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
Chuck Cooley	Signature "On behalf of" Charles L. Cooley			14

ter 1 Acknowledgement of Receipt of Materials

		Month	Day	Year
ame Brian Ekstrand	Signature			14

ter 2 Acknowledgement of Receipt of Materials

		Month	Day	Year
ame i Mercer	Signature Joi Mercer	12	27	14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all vs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
ame i Mercer	Signature Joi Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 229	2. Page 1 of 1

r's Mailing Address: ISTRICT, NE CAPE B, CEPOA-EN-EE-ER 06-6898 s Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029163
		B. State Generator's ID AK00000228395

r 1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
r 2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address RIDGE LANDFILL R SPRINGS LANE , OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19740	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above MOC-475E	K. Disposal Location			
	Cell		Level	
	Grid			

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e Chuck Crokey	Signature "On behalf of" Charles E. Crokey	Month 10	Day 7	Year 14

ter 1 Acknowledgement of Receipt of Materials

ame Steve Glasson	Signature X	Month 10	Day 7	Year 14

ter 2 Acknowledgement of Receipt of Materials

ame -i Mercer	Signature Joi Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame i Mercer	Signature Joi Mercer	Month 12	Day 27	Year 14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96643

Ph: 206 763 5025

ENT

me BRISTOL ENVIRONMENTAL REMEDIA Carrier R TRANSPORT R TRANSPORT
12/27/2014 Vehicle# R65 Volume
e Credit Account Container
et# Driver BRIAN MONASMITH
Check#
ket# Billing# 0000273
Grid

120057/110831OR

	Scale	Operator	Inbound		
2014 09:59:21	SCALE 1	lmercer		Gross	81120 lb
2014 09:59:21		lmercer		Tare	39860 lb
				Net	41260 lb
				Tons	20.63

RTRANS-KF NC230/NC231

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	20.63	Tons				ALASKA
A 18.87/TON-GONDOL	100	20.63	Tons				ALASKA
EL,ENV,ADMIN	100	20.63	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

nature

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc No.: NC 230
2. Page 1 of 1

r's Mailing Address:
DISTRICT, NE CAPE
8, CEPOA-EN-EE-ER
06-6898
s Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029164
B. State Generator's ID: AK00000228395

r 1 Company Name: ID SERVICES
6. US EPA ID Number: WAH000011486
C. State Transporter's ID
D. Transporter's Phone

r 2 Company Name: ORT, INC
8. US EPA ID Number: WAH000028338
E. State Transporter's ID
F. Transporter's Phone

d Facility Name and Site Address: RIDGE LANDFILL, AR SPRINGS LANE, , OR 97812
10. US EPA ID Number: ORD987173457
G. State Facility ID
H. State Facility Phone

on of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1870	P	
WM Profile #					
WM Profile #					
WM Profile #					

l Descriptions for Materials Listed Above: MOC 470F

K. Disposal Location
Cell | Level
Grid

landling Instructions and Additional Information
AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James
WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

der # 34140087
EMERGENCY CONTACT / PHONE NO.:

TOR'S CERTIFICATE:
ify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and escribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e	Signature "On behalf of"	Month	Day	Year
CHUCK Crosley	Charles F. Crosley	10	7	14

ter 1 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
Steve Glasman	X [signature]	10	7	14

ter 2 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
ri Mercer	Jori Mercer	12	27	14

te of Final Treatment/Disposal
ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame	Signature	Month	Day	Year
Mercer	Jori Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A — Manifest Doc No. NC 231	2. Page 1 of 1	

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029165
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	9920	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-475F	Cell		Level	
	Grid			

andling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34440087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

er 1 Acknowledgement of Receipt of Materials

		Month	Day	Year
me Steve Glasman	Signature X	10	7	14

er 2 Acknowledgement of Receipt of Materials

		Month	Day	Year
me T. Mercer	Signature Joe Mercer	12	27	14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all rs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
me T. Mercer	Signature Joe Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96644

Ph: 206 763 5025

MENT

lame	BRISTOL ENVIRONMENTAL REMEDIA	Carrier	R TRANSPORT R TRANSPORT		
:e	12/27/2014	Vehicle#	F10	Volume	
ype	Credit Account	Container			
cket#		Driver	TOM LOCHMANN		
		Check#			
icket#		Billing#	0000873		
on		Grid			
34120057/110831OR					

e	Scale	Operator	Inbound	Gross	86600 lb
7/2014 10:10:15	SCALE 1	lmercer		Tare	42260 lb
7/2014 10:10:15		lmercer		Net	44340 lb
				Tons	22.17

FISCHEWR-KF NC232/NC233

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
ly Cover-PCS-Tons-Pet	100	22.17	Tons				ALASKA
DOLA 18.87/TON-BONDOL	100	22.17	Tons				ALASKA
-FUEL,ENV,ADMIN	100	22.17	Tons				ALASKA
AL TRANS-LOCAL TRANS	100	1	Load				ALASKA
IIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Signature Tom

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 232	2. Page 1 of 1

r's Mailing Address: DISTRICT, NE CAPE 8, CEPOA-EN-EE-ER 06-6898 s Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029166 B. State Generator's ID AK00000228395
r 1 Company Name: ID SERVICES	6. US EPA ID Number: WAH000011486	C. State Transporter's ID D. Transporter's Phone
r 2 Company Name: RT, INC	8. US EPA ID Number: WAH000028338	E. State Transporter's ID F. Transporter's Phone
l Facility Name and Site Address: RIDGE LANDFILL R SPRINGS LANE , OR 97812	10. US EPA ID Number: ORD987173457	G. State Facility ID H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19720	P	
WM Profile #					
WM Profile #					
WM Profile #					

l Descriptions for Materials Listed Above: MDC-470E

K. Disposal Location: Cell / Level / Grid

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

TOR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

ter 1 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
Steve Glasman	X Steve Glasman	10	7	14

ter 2 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
ori Mercer	Jori Mercer	12	27	14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Name	Signature	Month	Day	Year
ori Mercer	Jori Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 233	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029167
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2080	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-475G	Cell		Level	
	Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 MM: Russell James

er # 3440087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Cooley	Signature "On behalf of" Charles R. Cooley	Month 10	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glasman	Signature X Steve Glasman	Month 10	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

me ori Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96645

Ph: 206 763 5025

ame BRISTOL ENVIRONMENTAL REMEDIA
e 12/27/2014
pe Credit Account
:ket#
K
icket#
on
34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

e	Scale	Operator	Inbound		
27/2014 10:13:19	SCALE 1	lmercer		Gross	82260 lb
27/2014 10:13:19		lmercer		Tare	42300 lb
				Net	39960 lb
				Tons	19.98

FISCHER-KF NC234/NC235

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
ily Cover-PCS-Tons-Pet	100	19.98	Tons				ALASKA
NDOLA 18.87/TON-GONDOL	100	19.98	Tons				
IA-FUEL,ENV,ADMIN	100	19.98	Tons				
OCAL TRANS-LOCAL TRANS	100	1	Load				
ANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Signature

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 234	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 06-6898 s Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029168
		B. State Generator's ID AK00000228395

r 1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
r 2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address RIDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19560	P	
WM Profile #					
WM Profile #					
WM Profile #					

l Descriptions for Materials Listed Above MOC 470D	K. Disposal Location Cell / Level Grid

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

TOR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e Chuck Croley	Signature "On behalf of" Charles R. Croley	Month 10	Day 7	Year 14
ter 1 Acknowledgement of Receipt of Materials				
ame Steve Glasman	Signature Steve Glasman	Month 10	Day 7	Year 14
ter 2 Acknowledgement of Receipt of Materials				
ame ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14
e of Final Treatment/Disposal				

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

ARDOUS MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc No.: NC 235

2. Page 1 of 1

r's Mailing Address:
DISTRICT, NE CAPE
8, CEPOA-EN-EE-ER
06-6898
s Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029169

B. State Generator's ID: AK00000228395

r 1 Company Name: ID SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

r 2 Company Name: ORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

l Facility Name and Site Address
RIDGE LANDFILL
R SPRINGS LANE
, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

on of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19340	P	
WM Profile #					
WM Profile #					
WM Profile #					

l Descriptions for Materials Listed Above

MOC-476A

K. Disposal Location

Cell		Level	
Grid			

andling instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~Y WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 3440067

EMERGENCY CONTACT / PHONE NO.:

TOR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

e	Signature "On behalf of"	Month	Day	Year
Chuck Croky	Charles L. Croky	10	7	14

ter 1 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
Steve Glasman	X [signature]	10	7	14

ter 2 Acknowledgement of Receipt of Materials

ame	Signature	Month	Day	Year
ori Mercer	Dori Mercer	12	27	14

te of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame	Signature	Month	Day	Year
ori Mercer	Dori Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96646

Ph: 206 763 5025

ENT

me BRISTOL ENVIRONMENTAL REMEDIA
12/27/2014
e Credit Account
et#

ket#

120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Scale	Operator	Inbound		
2014 10:37:46	SCALE 1	lmercer		Gross	83840 lb
2014 10:37:46		lmercer		Tare	40280 lb
				Net	43560 lb
				Tons	21.78

JB-KF NC236/NC237

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	21.78	Tons				ALASKA
A 18.87/TON-GONDOL	100	21.78	Tons				ALASKA
EL,ENV,ADMIN	100	21.78	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

nature

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC236	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029170
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	18340	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-470C	Cell		Level	
	Grid			

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James WELKER, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 3440087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Croley	Signature "On behalf of" Charles L. Croley	Month 10	Day 7	Year 14
ter 1 Acknowledgement of Receipt of Materials				
ame Steve Glasman	Signature X Steve Glasman	Month 10	Day 7	Year 14
ter 2 Acknowledgement of Receipt of Materials				
ame i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14
e of Final Treatment/Disposal				

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all vs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 237	2. Page 1 of 1

's Mailing Address: STRICT, NE CAPE , CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029171
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19180	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above

MOC-476B

K. Disposal Location

Cell		Level	
Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

r # 3440067 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Craley	Signature "On behalf of" Charles L. Craley	Month 10	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glasma	Signature	Month 10	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

me i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

of Final Treatment/Disposal

half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

vner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

ENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96647

Ph: 206 763 5025

me BRISTOL ENVIRONMENTAL REMEDIA
12/27/2014
e Credit Account
et#

ket#

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

120057/110831OR

	Scale	Operator	Inbound		
2014 10:40:05	SCALE 1	lmercer		Gross	82260 lb
2014 10:40:05		lmercer		Tare	39580 lb
				Net	42680 lb
				Tons	21.34

KISSLER-KF NC238/NC239

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	21.34	Tons				ALASKA
18.87/TON-GONDOL	100	21.34	Tons				ALASKA
EL,ENV,ADMIN	100	21.34	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

nature

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 238	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 96-6898 s Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029172
		B. State Generator's ID AK00000228395

r 1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
r 2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
AL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	17080	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-470B	Cell		Level	
	Grid			

andling Instructions and Additional Information

AIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James WELKER, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 3140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

fy that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Cooley	Signature "On behalf of" Charles L. Cooley	Month 10	Day 7	Year 14

ter 1 Acknowledgement of Receipt of Materials

ame Steve Glasman	Signature	Month 10	Day 7	Year 14

ter 2 Acknowledgement of Receipt of Materials

ame ori Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all vs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

ame ori Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 239	2. Page 1 of 1

's Mailing Address: ISTRICT, NE CAPE , CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029174
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	1600	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-476 C	Cell		Level	
	Grid			

andling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Croley	Signature "On behalf of" Charles L. Croley	Month 12	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glasman	Signature X Steve Glasman	Month 12	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

me Jori Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ws, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me Jori Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Origina
Ticket# 966

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

AENT

ame BRISTOL ENVIRONMENTAL REMEDIA
ce 12/27/2014
ype Credit Account
icket#
AK
Ticket#
ation
341200057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

Volume

Inbound

Gross	83180
Tare	41460
Net	41720
Tons	20

Scale
SCALE 1

Operator
lmercer
lmercer

Time
12/27/2014 10:42:33
12/27/2014 10:42:33

aments KISSLER-KF NC240/NC241

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Dr
1	Daily Cover-PCS-Tons-Pet	100	20.86	Tons				ALA
2	GONDOLA 18.87/TON-GONDOL	100	20.86	Tons				ALA
3	FEA-FUEL,ENV,ADMIN	100	20.86	Tons				ALA
	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALA
	-rcst FEE-MANIFEST FE	100	2	Each				ALA

Total Tax
Total Ticket

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 240	2. Page 1 of 1
's Mailing Address: ISTRICT, NE CAPE 3, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029175	B. State Generator's ID AK00000228395
1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID	D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID	F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID	H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31	001	BA	14000	P	
WM Profile # 110813OR					
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-470A	Cell		Level	
	Grid			

andling Instructions and Additional Information ATTN: Russell James

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Crolley	Signature "On behalf of" Charles L. Crolley	Month 10	Day 2	Year 14
er 1 Acknowledgement of Receipt of Materials				
me Steve Glasman	Signature X Steven Glasman	Month 10	Day 2	Year 14
er 2 Acknowledgement of Receipt of Materials				
me ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14
e of Final Treatment/Disposal				

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all rs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me ri Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST

1. Generator's US EPA ID No. N/A — Manifest Doc No. NC 241

2. Page 1 of 1

's Mailing Address:
STRICT, NE CAPE
, CEPOA-EN-EE-ER
6-6898
Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029176

B. State Generator's ID: AK00000228395

1 Company Name: D SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

2 Company Name: RT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

Facility Name and Site Address:
IDGE LANDFILL
R SPRINGS LANE
OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	17820	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above: MDC-476D

K. Disposal Location: Cell ____ Level ____ Grid ____

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34440087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
CHUCK Croley	Signature "On behalf of" Charles L. Croley	10	7	14

er 1 Acknowledgement of Receipt of Materials

		Month	Day	Year
me Steve Glasman	Signature X	10	7	14

er 2 Acknowledgement of Receipt of Materials

		Month	Day	Year
me Dori Mercer	Signature Dori Mercer	12	27	14

e of Final Treatment/Disposal

half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
me Dori Mercer	Signature Dori Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96649

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 10:44:32	SCALE 1	lmercer		Gross	83620 lb
Out	12/27/2014 10:44:32		lmercer		Tare	41460 lb
					Net	42160 lb
					Tons	21.08

Comments MH-KF NC242/NC243

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pst	100	21.08	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.08	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.08	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 242	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029177 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 11081~~3~~31OR	001	BA	18940	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-469G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A Manifest Doc No. NC 243	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029178
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813~~6~~31OR	001	BA	20040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-476E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN RUSSELL JAMES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96650

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 10:47:08	SCALE 1	lmercer		Gross	79880 lb
Out	12/27/2014 10:47:08		lmercer		Tare	41040 lb
					Net	38840 lb
					Tons	19.42

Comments RTRANS-KF NC244/NC245

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.42	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.42	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.42	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 244	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029179 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	20380	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-476F

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	09	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	09	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 245	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029180 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19920	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-476G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN Russell James

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96651

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 10:49:21	SCALE 1	lmercer		Gross	80540 lb
Out	12/27/2014 10:49:21		lmercer		Tare	42200 lb
					Net	38340 lb
					Tons	19.17

Comments RTRANS-KF NC246/NC247

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.17	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.17	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.17	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 246	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029181

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	14220	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC-477A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 247	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029182 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21100	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-477B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	24	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96652

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1100310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:02:49	SCALE 1	lmercer		Gross	81040 lb
Out	12/27/2014 11:02:49		lmercer		Tare	39860 lb
					Net	41180 lb
					Tons	20.59

Comments RTRANS-KF NC248/NC249

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.59	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.59	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.59	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 248	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029183 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19620	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-477C

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosby	Charles L. Crosby	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 249	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029185 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19340	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-47ZD	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles E. Corley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Gagnon	X Steve Gagnon	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96655

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:14:44	SCALE 1	lmercer		Gross	82780 lb
Out	12/27/2014 11:14:44		lmercer		Tare	42300 lb
					Net	40480 lb
					Tons	20.24

Comments FISCHER-KF NC254/NC255

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.24	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.24	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.24	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 254	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029109
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRING5 LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110816OR	001	BA	19920	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC478B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles E. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC255	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029110
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 4. Generator's Phone 907-7S3-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20640	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-478C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROKEY	Charles P. Crokey	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96656

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:17:16	SCALE 1	lmercer		Gross	83340 lb
Out	12/27/2014 11:17:16		lmercer		Tare	39580 lb
					Net	43760 lb
					Tons	21.88

Comments KISSLER-KF NC256/NC257

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 256	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029111
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18120	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-478D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 257	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029112
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19560	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-478E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96657

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:19:52	SCALE 1	lmercer		Gross	82400 lb
Out	12/27/2014 11:19:52		lmercer		Tare	41460 lb
					Net	40940 lb
					Tons	20.47

Comments KISSLER-KF NC258/NC259

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.47	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.47	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.47	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 258	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029113 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	18560	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC478F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 259	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029114

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES

6. US EPA ID Number WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name R TRANSPORT, INC

8. US EPA ID Number WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20380	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-4786

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96658

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831QR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:24:39	SCALE 1	lmercer		Gross	79600 lb
Out	12/27/2014 11:24:39		lmercer		Tare	41040 lb
					Net	38560 lb
					Tons	19.28

Comments RTRANS-KF NC260/NC261

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 260	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029115 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1940	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 479A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 2101	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029116
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MXC. 479B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	22	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	22	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96659

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:27:16	SCALE 1	lmercer		Gross	86320 lb
Out	12/27/2014 11:27:16		lmercer		Tare	41460 lb
					Net	44860 lb
					Tons	22.43

Comments MH-KF NC262/NC263

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc No.: NC 262

2. Page 1 of 1

s Mailing Address:
STRICT, NE CAPE
, CEPOA-EN-EE-ER
5-6898
Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029117

B. State Generator's ID: AK00000228395

1 Company Name: D SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

2 Company Name: RT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

Facility Name and Site Address
IDGE LANDFILL
R SPRINGS LANE
OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19220	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above

MOC-479C

K. Disposal Location

Cell		Level	
Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087

EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

er 1 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
ave Glasman	X	10	7	14

er 2 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
ri Mercer	Doui Mercer	12	27	14

e of Final Treatment/Disposal

ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Name	Signature	Month	Day	Year
Mercer	Doui Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 263	2. Page 1 of 1

s Mailing Address: STRICT, NE CAPE . CEPOA-EN-EE-ER 5-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029118
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address DGE LANDFILL SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT	001	BA	21120	P	
WM Profile # 110813OR 31					
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above

MOC-479D

K. Disposal Location

Cell		Level	
Grid			

ndling Instructions and Additional Information

L ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James WELKER; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

r # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

		Month	Day	Year
Chuck Croley	Signature "On behalf of" Charles L. Croley	10	7	14

er 1 Acknowledgement of Receipt of Materials

		Month	Day	Year
me Steve Glasman	Signature X Steve Glasman	10	7	14

er 2 Acknowledgement of Receipt of Materials

		Month	Day	Year
me Mercer	Signature Jori Mercer	12	27	14

of Final Treatment/Disposal

half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

vner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

		Month	Day	Year
me Mercer	Signature Jori Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96660

Ph: 206 763 5025

e BRISTOL ENVIRONMENTAL REMEDIA

12/27/2014

Credit Account

t#

et#

20057/110831DR

Carrier	R TRANSPORT R TRANSPORT		
Vehicle#	R57	Volume	
Container			
Driver	BEN CARROLL		
Check#			
Billing#	0000273		
Grid			

	Scale	Operator	Inbound		
014 11:35:21	SCALE 1	lmercer		Gross	83040 lb
014 11:35:21		lmercer		Tare	42200 lb
				Net	40840 lb
				Tons	20.42

RTRANSS-KF NC264/NC265

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	20.42	Tons				ALASKA
18.87/TON-GONDOL	100	20.42	Tons				ALASKA
CL,ENV,ADMIN	100	20.42	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

ature

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Doc No. NC 264

2. Page 1 of 1

's Mailing Address:
STRICT, NE CAPE
, CEPOA-EN-EE-ER
6-6898
Phone 907-7S3-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029119

B. State Generator's ID AK00000228395

1 Company Name
D SERVICES

6. US EPA ID Number WAH000011486

C. State Transporter's ID

D. Transporter's Phone

2 Company Name
RT, INC

8. US EPA ID Number WAH000028338

E. State Transporter's ID

F. Transporter's Phone

Facility Name and Site Address
IDGE LANDFILL
R SPRINGS LANE
OR 97812

10. US EPA ID Number ORD987173457

G. State Facility ID

H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18440	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above
MOC-479E

K. Disposal Location
Cell | Level
Grid

ndling Instructions and Additional Information
IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:
y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and scribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

er 1 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
Steve Glasman	X Steve Glasman	10	7	14

er 2 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
ri Mercer	Dori Mercer	12	27	14

e of Final Treatment/Disposal
ehalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all vs, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Name	Signature	Month	Day	Year
ri Mercer	Dori Mercer	12	27	14

TMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A — Manifest Doc No. NC 265	2. Page 1 of 1	

s Mailing Address: STRICT, NE CAPE, CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029120
		B. State Generator's ID AK00000228395

1 Company Name: D SERVICES	6. US EPA ID Number: WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name: RT, INC	8. US EPA ID Number: WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address: IDGE LANDFILL, SPRINGS LANE, OR 97812	10. US EPA ID Number: ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31	001	BA	19260	P	
WM Profile # 110813OR					
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC. 479F	Cell		Level	
	Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: RUSSELL JAMES ~~WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

r # 3414008 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

CHUCK CROLEY	Signature "On behalf of" Charles L. Croley	Month 10	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

Steve Glasman	Signature	Month 10	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

of Final Treatment/Disposal

half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

vner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96661

ENT

me	BRISTOL ENVIRONMENTAL REMEDIA	Carrier	R TRANSPORT R TRANSPORT
	12/27/2014	Vehicle#	R65
e	Credit Account	Container	
et#		Driver	BRIAN MONASMITH
		Check#	
ket#		Billing#	0000273
		Grid	

Volume

20057/110831OR

	Scale	Operator	Inbound		
2014 11:38:34	SCALE 1	lmercer		Gross	80840 lb
2014 11:38:34		lmercer		Tare	39860 lb
				Net	40980 lb
				Tons	20.49

RTRANS-KF NC266/NC267

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cover-PCS-Tons-Pet	100	20.49	Tons				ALASKA
18.87/TON-GONDOL	100	20.49	Tons				ALASKA
EL,ENV,ADMIN	100	20.49	Tons				ALASKA
TRANS-LOCAL TRANS	100	1	Load				ALASKA
ST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

natura

NON-HAZARDOUS MANIFEST

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 2606	2. Page 1 of 1

's Mailing Address: STRICT, NE CAPE , CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029121
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	12640	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC 479G	Cell		Level	
	Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

er # 24140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Croley	Signature "On behalf of" Charles L. Croley	Month 10	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glassman	Signature	Month 10	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

me i Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

e of Final Treatment/Disposal

behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me Mercer	Signature Jori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

AGEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 267	2. Page 1 of 1

's Mailing Address: STRICT, NE CAPE , CEPOA-EN-EE-ER 6-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029122 B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID F. Transporter's Phone
Facility Name and Site Address IDGE LANDFILL R SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19480	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-480A	Cell		Level	
	Grid			

ndling Instructions and Additional Information

IL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

er # 3444087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Thomas S. Cooley	10	7	14

er 1 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
teve Glasman	X Steve Gla	10	7	14

er 2 Acknowledgement of Receipt of Materials

Name	Signature	Month	Day	Year
ori Mercer	Dori Mercer	12	27	14

e of Final Treatment/Disposal

behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

wner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Name	Signature	Month	Day	Year
ri Mercer	Dori Mercer	12	27	14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 36662

Ph: 206 763 5025

e BRISTOL ENVIRONMENTAL REMEDIA

12/27/2014

Credit Account

t#

et#

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10
Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

00057/110831DR

	Scale	Operator	Inbound		
014 11:45:30	SCALE 1	lmercer		Gross	86940 lb
014 11:45:30		lmercer		Tare	42260 lb
				Net	44680 lb
				Tons	22.34

FISCHER-KF NC268/NC269

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
over-PCS-Tons-Pet	100	22.34	Tons				ALASKA
18.87/TON-BONDOL	100	22.34	Tons				ALASKA
L,ENV,ADMIN	100	22.34	Tons				ALASKA
RANS-LOCAL TRANS	100	1	Load				ALASKA
T FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

ature

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 268	2. Page 1 of 1

s Mailing Address: STRICT, NE CAPE . CEPOA-EN-EE-ER 5-6898 Phone 907-753-2689	Generator's Site Address (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029123
		B. State Generator's ID AK00000228395

1 Company Name D SERVICES	6. US EPA ID Number WAH000011486	C. State Transporter's ID
		D. Transporter's Phone
2 Company Name RT, INC	8. US EPA ID Number WAH000028338	E. State Transporter's ID
		F. Transporter's Phone
Facility Name and Site Address DGE LANDFILL SPRINGS LANE OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID
		H. State Facility Phone

n of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20180	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above	K. Disposal Location			
MOC-480B	Cell		Level	
	Grid			

ndling Instructions and Additional Information

L ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

r # 34140087 EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:

y that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Croley	Signature "On behalf of" Charles E. Croley	Month 10	Day 7	Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glasman	Signature X Steve Glasman	Month 10	Day 7	Year 14

er 2 Acknowledgement of Receipt of Materials

me ri Mercer	Signature Dori Mercer	Month 12	Day 27	Year 14

of Final Treatment/Disposal

half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

vner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me ri Mercer	Signature Dori Mercer	Month 12	Day 27	Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

GEMENT

RDOUS MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc No.: NC269

2. Page 1 of 1

s Mailing Address:
STRICT, NE CAPE
, CEPOA-EN-EE-ER
5-6898
Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029124

B. State Generator's ID: AK00000228395

1 Company Name: D SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

2 Company Name: RT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

Facility Name and Site Address
DGE LANDFILL
SPRINGS LANE
OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

n of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
L NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	20480	P	
WM Profile #					
WM Profile #					
WM Profile #					

Descriptions for Materials Listed Above
MOC-480C

K. Disposal Location
Cell
Level
Grid

ndling Instructions and Additional Information
L ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

r # 3414087

EMERGENCY CONTACT / PHONE NO.:

OR'S CERTIFICATE:
that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and cribed, classified and packaged and are in proper condition for transportation according to applicable regulations.

Chuck Croley — Signature "On behalf of" Charles P. Croley — Month 10 Day 7 Year 14

er 1 Acknowledgement of Receipt of Materials

me Steve Glasman — Signature X Steve Glasman — Month 10 Day 7 Year 14

er 2 Acknowledgement of Receipt of Materials

me Lori Mercer — Signature Lori Mercer — Month 12 Day 27 Year 14

of Final Treatment/Disposal
half of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all s, regulations, permits and licenses on the dates listed above.

vner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

me Lori Mercer — Signature Lori Mercer — Month 12 Day 27 Year 14

MENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96663

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYNE BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:50:17	SCALE 1	lmercer		Gross	78780 lb
Out	12/27/2014 11:50:17		lmercer		Tare	40280 lb
					Net	38500 lb
					Tons	19.25

Comments JB-KF NC270/NC271

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.25	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.25	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.25	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 270	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029125

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19360	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-48DD

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles T. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 271	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029087 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-480E

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles P. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96664

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07
Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:53:04	SCALE 1	lmercer		Gross	83780 lb
Out	12/27/2014 11:53:04		lmercer		Tare	42300 lb
					Net	41480 lb
					Tons	20.74

Comments FISCHER-KF NC272/NC273

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 272	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029088
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-480F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 273	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029089 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20620	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-480G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96665

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 11:56:26	SCALE 1	lmercer		Gross	79460 lb
Out	12/27/2014 11:56:26		lmercer		Tare	39580 lb
					Net	39880 lb
					Tons	19.94

Comments KISSLER-KF NC274/NC275

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.94	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.94	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.94	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC275	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029091
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-481B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 274	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029090 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19120	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-481A

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96666

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11 Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:00:40	SCALE 1	lmercer		Gross	82560 lb
Out	12/27/2014 12:00:40		lmercer		Tare	41460 lb
					Net	41100 lb
					Tons	20.55

Comments KISSLER-KF NC276/NC277

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.55	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.55	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.55	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC276	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (if different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029092 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19580	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 481C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER;~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC277	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029093 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	17860	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-481D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glas	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96667

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:07:08	SCALE 1	lmercer		Gross	83920 lb
Out	12/27/2014 12:07:08		lmercer		Tare	41460 lb
					Net	42460 lb
					Tons	21.23

Comments MH*-KF NC278/NC279

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.23	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.23	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.23	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 278	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029094

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	9310	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MXC-481E

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 279	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029095

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20800	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Additional Descriptions
MOC 481F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96668

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:10:12	SCALE 1	lmercer		Gross	83120 lb
Out	12/27/2014 12:10:12		lmercer		Tare	41040 lb
					Net	42080 lb
					Tons	21.04

Comments RTRANS-KF NC280/NC281

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.04	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.04	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.04	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 280	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2029096
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19420	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 48/G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 281	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029097
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 482A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96669

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:13:08	SCALE 1	lmercer		Gross	79520 lb
Out	12/27/2014 12:13:08		lmercer		Tare	42200 lb
					Net	37320 lb
					Tons	18.66

Comments RTRANS-KF NC282/NC283

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	18.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 282	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029098
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-482B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles T. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC283	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029099 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19100	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-482C

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96670

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:16:25	SCALE 1	lmercer		Gross	80020 lb
Out	12/27/2014 12:16:25		lmercer		Tare	39860 lb
					Net	40160 lb
					Tons	20.08

Comments RTRANS-KF NC284/NC285

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.08	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.08	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.08	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 284	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029100 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110818OR	001	BA	19200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

NDC 482D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glazer	X Steve Glazer	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 285	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029101 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20360	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MCC 482E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles F. Crosley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96671

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:19:57	SCALE 1	lmercer		Gross	85740 lb
Out	12/27/2014 12:19:57		lmercer		Tare	42260 lb
					Net	43480 lb
					Tons	21.74

Comments FISCHER-KF NC286/NC287

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.74	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.74	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.74	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 286	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029102 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR (31)	001	BA	19440	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC 482F

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gl	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC287	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029103 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21020	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-4826	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414287 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X Steve Glassman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lon Mercer	Lon Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96672

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# JBST
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:23:04	SCALE 1	lmercer		Gross	68520 lb
Out	12/27/2014 12:23:04		lmercer		Tare	40280 lb
					Net	28240 lb
					Tons	14.12

Comments JB-KF NC288/NC289

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.12	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	14.12	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	14.12	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 288	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029104
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-483A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 289	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029105
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19540	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-483B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96673

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07 Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:26:02	SCALE 1	lmercer		Gross	76120 lb
Out	12/27/2014 12:26:02		lmercer		Tare	42300 lb
					Net	33820 lb
					Tons	16.91

Comments FISCHER-KF NC290/NC291

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.91	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.91	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.91	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC290	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029106
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-483C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 291	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029187 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 483D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96674

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:38:59	SCALE 1	lmercer		Gross	83500 lb
Out	12/27/2014 12:38:59		lmercer		Tare	39580 lb
					Net	43920 lb
					Tons	21.96

Comments KISSLER-KF NC292/NC293

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.96	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.96	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.96	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC292	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029188

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC: 483E

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

JBU 172177

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 293	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number 2029189
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18700	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MXC-483F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96675

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# K11
Volume
Container
Driver DAVE BROWN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 12:41:20	SCALE 1	lmercer		Gross	82320 lb
Out	12/27/2014 12:41:20		lmercer		Tare	41460 lb
					Net	40860 lb
					Tons	20.43

Comments KISSLER-KF NC294/NC295

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

Jan 7/2/14

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC294	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029190

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19440	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC 4836

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X Steve Gl	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC295	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029191 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	2500	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 484A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140089 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosby	Charles L. Crosby	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Original
Ticket# 96717

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51 Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:03:52	SCALE 1	lmercer		Gross	80380 lb
Out	12/27/2014 17:03:52		lmercer		Tare	41040 lb
					Net	39340 lb
					Tons	19.67

Comments RTRANS-KF ~~NC366/NC367~~

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.67	Tons				ALASKA
2	GONDOLA 19.87/TON-GONDOL	100	19.87	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.67	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 366	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029035

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	19780	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MDC-494B

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CMLEY	Charles L. Cmley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glassman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 367	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029036
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC 494C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles P. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Steve Glasman		10	7	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96719

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F10 Volume
Container
Driver TOM LOCHMANN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:31:26	SCALE 1	lmercer		Gross	88420 lb
Out	12/27/2014 17:31:26		lmercer		Tare	42260 lb
					Net	46160 lb
					Tons	23.08

Comments FISCHER-KF NC370/NC371

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.08	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	23.08	Tons				
3	FEA-FUEL,ENV,ADMIN	100	23.08	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature Tom

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 370	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029039

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	20600	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-494F

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501~~

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cropley	Charles L. Cropley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	X	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 371	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029040 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19480	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MDC-494G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3414008T EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gla	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96720
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# F07 Volume
Container
Driver RUSS DAY
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:34:12	SCALE 1	lmercer		Gross	82500 lb
Out	12/27/2014 17:34:12		lmercer		Tare	42300 lb
					Net	40200 lb
					Tons	20.10

Comments FISCHER-KF NC372/NC373

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.10	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.10	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.10	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature Russ Day

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 372	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029041 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-495A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 373	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029042

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110818OR	001	BA	20240	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-495B

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELCKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96721

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# K12T
Volume
Container
Driver BRIAN GIBSON
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:37:31	SCALE 1	lmercer		Gross	83600 lb
Out	12/27/2014 17:37:31		lmercer		Tare	39580 lb
					Net	44020 lb
					Tons	22.01

Comments KISSLER-KF NC374/NC375

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.01	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.01	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.01	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature B Gibson

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 374	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029043
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-495C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 375	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029044
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	14520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-4950	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X [signature]	10	7	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96722

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# MH01T
Volume
Container
Driver MARK HUNT
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:43:11	SCALE 1	lmercer		Gross	86200 lb
Out	12/27/2014 17:43:11		lmercer		Tare	41460 lb
					Net	44740 lb
					Tons	22.37

Comments MH-KF NC376/NC377

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	22.37	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	22.37	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	22.37	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 376	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029045 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19360	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC ~~494E~~ RJ - 495E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER;~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	7	~~13~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
✓ Steve Glasman	X Steve Glasman	10	7	~~13~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 377	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-7S3-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029046 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	19900	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-495F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolry	Charles L. Crolry	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96723

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 07:01:15	SCALE 1	lmercer		Gross	78800 lb
Out	12/29/2014 07:01:15		lmercer		Tare	41040 lb
					Net	37760 lb
					Tons	18.88

Comments RTRANS-KF NC378/NC379

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.88	Tons				
3	FEA-FUEL,ENV,ADMIN	100	18.88	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 378	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029047
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	20160	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MRC-4956	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasgow	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5029

Original
Ticket# 96724

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 07:11:28	SCALE 1	lmercer		Gross	82100 lb
Out	12/29/2014 07:11:28		lmercer		Tare	41700 lb
					Net	40400 lb
					Tons	20.20

Comments RTRANS-KF NC380/NC381

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.20	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.20	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.20	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	8	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 380	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029049 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	21000	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-496B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	8	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	8	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 381	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029050
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813~~0~~OR	001	BA	20040	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-496C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles P. Corley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasser	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96725

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# RS3
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 07:14:23	SCALE 1	lmercer		Gross	78640 lb
Out	12/29/2014 07:14:23		lmercer		Tare	38080 lb
					Net	40560 lb
					Tons	20.28

Comments RTRANS-KF NC382/NC383

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.28	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.28	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.28	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 382	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029051
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1886 LB	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description MDC-496D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glisson		10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 383	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029052 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19400	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-496E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3440087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles A. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96737

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 08:10:37	SCALE 1	lmercer		Gross	81660 lb
Out	12/29/2014 08:10:37		lmercer		Tare	41040 lb
					Net	40620 lb
					Tons	20.31

Comments RTRANS-KF NC384/NC385

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.31	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.31	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.31	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 384	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029053
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110818OR	001	BA	19620	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-496F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 385	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029054 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19420	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-496G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008-7 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles E. Crolley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasner	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96738

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 08:13:27	SCALE 1	lmercer		Gross	79740 lb
Out	12/29/2014 08:13:27		lmercer		Tare	38080 lb
					Net	41660 lb
					Tons	20.83

Comments RTRANS-KF NC386/NC387

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.83	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.83	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 386	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029055 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	11960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-497A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: RUSSELL JAMES

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 387	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (if different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2029056

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20760	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOC-497B

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles L. Cooley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96739

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 08:46:55	SCALE 1	lmercer		Gross	81880 lb
Out	12/29/2014 08:46:55		lmercer		Tare	41700 lb
					Net	40180 lb
					Tons	20.09

Comments TRANS-KF NC388/NC389

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.09	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.09	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.09	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 388	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
U5ACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029057
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110816OR	001	BA	20060	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-497C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~ Attn: Russell James 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Coley	Charles L. Coley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasma		10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 389	2. Page 1 of 1

3. Generator's Mailing Address: U5ACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029058 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	20560	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC497D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414085T EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasson	X Steve Glasson	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96746

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 09:39:26	SCALE 1	lmercer		Gross	78280 lb
Out	12/29/2014 09:39:26		lmercer		Tare	41040 lb
					Net	37240 lb
					Tons	18.62

Comments RTRANS-KF NC390/NC391

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.62	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	18.62	Tons				
3	FEA-FUEL,ENV,ADMIN	100	18.62	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 390	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029059
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-497E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34/4 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC391	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number 2029060

B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL, 18177 CEDAR SPRINGS LANE, ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19520	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
MOCU97F

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96748

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 09:50:10	SCALE 1	lmercer		Gross	70260 lb
Out	12/29/2014 09:50:10		lmercer		Tare	38080 lb
					Net	32180 lb
					Tons	16.09

Comments RTRANS-KF NC392/NC393

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.09	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.09	Tons				
3	FEA-FUEL,ENV,ADMIN	100	16.09	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

208WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 392	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER- JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029061 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-4976	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Gl	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 393	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029062 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19600	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-498A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140061 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96750

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65
Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 08:34:22	SCALE 1	lmercer		Gross	72800 lb
Out	12/26/2014 08:34:22		lmercer		Tare	39860 lb
					Net	32940 lb
					Tons	16.47

Comments RTRANS-KF NC490/NC491 REPLACEMENT TICKET FOR TICKET # 96504

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.47	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.47	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.47	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96504

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R65 Volume
Container
Driver BRIAN MONASMITH
Check#
Billing# 0000273
Grid

Time Scale Operator Inbound

In	12/26/2014 08:34:22	SCALE 1	lmercer	Gross	72800 lb
Out	12/26/2014 08:34:22		lmercer	Tare	39860 lb
				Net	32940 lb
				Tons	16.47

Comments RTRANS-KF NC488/NC489

Incorrect Manifest #

NEW # 96750

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.47	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	16.47	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	16.47	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature B Monasmith

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 490	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2766253 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1980	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

21-001G

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3411100887 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles J. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 491	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766254
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	10540	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
21-002A	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Cooley	Charles P. Cooley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96751

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58 Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 10:08:46	SCALE 1	lmercer		Gross	82560 lb
Out	12/29/2014 10:08:46		lmercer		Tare	41700 lb
					Net	40860 lb
					Tons	20.43

Comments RTRANS-KF NC394/NC395

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.43	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.43	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC394	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029063 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18140	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-498B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 395	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029064
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19220	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-498C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96752

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Volume
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:31:19	SCALE 1	lmercer		Gross	82240 lb
Out	12/26/2014 10:31:19		lmercer		Tare	40280 lb
					Net	41960 lb
					Tons	20.98

Comments JB -KF NC475/NC001 REPLACEMENT TICKET FOR TICKET # 96525

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96525

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/26/2014
Payment Type Credit Account
Manual Ticket# -
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# JB9T
Container
Driver JAYME BARNES
Check#
Billing# 0000273
Grid

Volume

	Time	Scale	Operator	Inbound		
In	12/26/2014 10:31:19	SCALE 1	Imercer		Gross	82240 lb
Out	12/26/2014 10:31:19		Imercer		Tare	40280 lb
					Net	41960 lb
					Tons	20.98

Comments JB-KF NC475~~NC501~~ NC001

Incorrect Manifest #'s NEW #

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC 475	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2766240
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	1320	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
10-00815	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008 7 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X Steve Glasma	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. AK0000228395	Manifest Doc No. NC001	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2685917 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID: State Transporter ID D. Transporter's Phone: Transporter 1 Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID: State Facility ID H. State Facility Phone: Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110831OR	001	BA	16540	P	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description
MOC-442A

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES
ATTN: Russell James; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmann	X Steve Glasmann	10	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96756

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 10:53:40	SCALE 1	lmercer		Gross	71380 lb
Out	12/29/2014 10:53:40		lmercer		Tare	41040 lb
					Net	30340 lb
					Tons	15.17

Comments RTRANS-KF NC396/NC397

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.17	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	15.17	Tons				
3	FEA-FUEL,ENV,ADMIN	100	15.17	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 396	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	2029065
4. Generator's Phone 907-753-2689		B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	10. US EPA ID Number ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR	001	BA	19200	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-498D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crosley	Charles L. Crosley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X [signature]	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 397	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029066 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	1840	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-498E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles E. Conley	10	6	~~13~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman	Steve Gl	10	6	~~13~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96757

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53 Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 10:55:41	SCALE 1	lmercer		Gross	77400 lb
Out	12/29/2014 10:55:41		lmercer		Tare	38080 lb
					Net	39320 lb
					Tons	19.66

Comments RTRANS-KF NC398/NC399

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.66	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.66	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.66	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 398	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2029067
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19760	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-4198F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414008T EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CONLEY	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws; regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 399	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028983
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18bld	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-500E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96758

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:11:40	SCALE 1	lmercer		Gross	83960 lb
Out	12/27/2014 17:11:40		lmercer		Tare	42200 lb
					Net	41760 lb
					Tons	20.88

Comments RTRANS-KF NC368/NC369 REPLACEMENT TICKET FOR TICKET # 96718

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.88	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.88	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.88	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96718

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/27/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R57
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/27/2014 17:11:40	SCALE 1	lmercer		Gross	83960 lb
Out	12/27/2014 17:11:40		lmercer		Tare	42200 lb
					Net	41760 lb
					Tons	20.88

Incorrect manifest #'s

Comments RTRANS-KF ~~NC366/NC367~~ NC368 + NC 369

NEW Ticket 96758

	Product	LD%	Qty	UOM	Rate	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.88	Tons			ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.88	Tons			ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.88	Tons			ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load			ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each			ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC368	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029037 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC494D

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles F. Croley	10	7	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glaman	X Steve Glaman	10	7	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 369	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2029038 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-494E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell Jones ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Gla	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Lori Mercer	Lori Mercer	12	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96759
Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 11:09:37	SCALE 1	lmercer		Gross	80600 lb
Out	12/29/2014 11:09:37		lmercer		Tare	41700 lb
					Net	38900 lb
					Tons	19.45

Comments TRANS-KF NC400/NC401

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.45	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.45	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.45	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 400	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028974 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18800	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-500F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	7	~~13~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasman		10	7	~~13~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 401	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028975 B. State Generator's ID AK00000228395

5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19920	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-500 G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles E. Crolley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Original
Ticket# 96763

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 11:26:59	SCALE 1	lmercer		Gross	80700 lb
Out	12/29/2014 11:26:59		lmercer		Tare	41040 lb
					Net	39660 lb
					Tons	19.83

Comments RTRANS-KF NC402/NC403

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.83	Tons				
3	FEA-FUEL,ENV,ADMIN	100	19.83	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

Total Tax
Total Ticket

Driver's Signature

209WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 402	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028976
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18780	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-500D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: ~~MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 ATTN: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Gleason	X Steve Gleason	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 403	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028984
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-7S3-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	18820	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-500C	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES Attn: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Conley	Charles L. Conley	10	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasna	Steve Glasna	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96764

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 11:30:27	SCALE 1	lmercer		Gross	78040 lb
Out	12/29/2014 11:30:27		lmercer		Tare	38080 lb
					Net	39960 lb
					Tons	19.98

Comments RTRANS-KF NC404/NC405

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.98	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	19.98	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	19.98	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 404	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028985
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	1800	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-500B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	~~08~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Steve Glasser	Steve Glasser	10	6	~~08~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 405	2. Page 1 of 1	

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2028986

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110818OR	001	BA	18960	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-500A

K. Disposal Location: Cell / Grid / Level

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles R. Croley	10	6	~~13~~ 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	~~13~~ 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
KIM FUNK	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96765

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831DR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 11:41:22	SCALE 1	lmercer		Gross	83360 lb
Out	12/29/2014 11:41:22		lmercer		Tare	41700 lb
					Net	41660 lb
					Tons	20.83

Comments RT - LM (NC406/NC407)

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.83	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.83	Tons				
3	FEA-FUEL,ENV,ADMIN	100	20.83	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

209WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 406p	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9S06-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028987 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19800	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC:499G	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles L. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 407	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028988 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19480	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-499F	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK CROLEY	Charles E. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasna	X [signature]	10	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96766

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R51
Volume
Container
Driver TYE LEE
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:02:56	SCALE 1	lmercer		Gross	81180 lb
Out	12/29/2014 12:02:56		lmercer		Tare	41040 lb
					Net	40140 lb
					Tons	20.07

Comments RTRANS-KF NC408/NC409

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.07	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	20.07	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	20.07	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 408	2. Page 1 of 1	

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028989 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	18880	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-499E	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414 0087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 409	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028990
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 4. Generator's Phone 907-753-2689	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
NORTHLAND SERVICES	WAH000011486	D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
R TRANSPORT, INC	WAH000028338	F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	21860	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MDC-499D	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER~~, 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140089 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Corley	Charles L. Corley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96767

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/110831OR

Carrier R TRANSPORT R TRANSPORT
Vehicle# R53
Volume
Container
Driver BEN CARROLL
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:07:30	SCALE 1	lmercer		Gross	80940 lb
Out	12/29/2014 12:07:30		lmercer		Tare	38080 lb
					Net	42860 lb
					Tons	21.43

Comments RTRANS-KF NC410/NC411

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.43	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	21.43	Tons				ALASKA
3	FEA-FUEL,ENV,ADMIN	100	21.43	Tons				ALASKA
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				ALASKA
5	MANIFEST FEE-MANIFEST FE	100	2	Each				ALASKA

Total Tax
Total Ticket

Driver's Signature

208WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 410	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028991
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND 5ERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19500	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
MOC-499B	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501 Attn: Russell James

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Chuck Croley	Charles S. Croley	10	6	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasman	X Steve Glasman	10	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 411	2. Page 1 of 1

3. Generator's Mailing Address:
USACE, AK DISTRICT, NE CAPE
PO BOX 6898, CEPOA-EN-EE-ER
JBER, AK 9506-6898

4. Generator's Phone 907-753-2689

Generator's Site Address (If different than mailing):
USACE, ALASKA DISTRICT
ST LAWRENCE NEC FACILITY-WIDE, NE CAPE
ST LAWRENCE ISLAND SAVOONGA AK 99769

A. Manifest Number: 2028992

B. State Generator's ID: AK00000228395

5. Transporter 1 Company Name: NORTHLAND SERVICES

6. US EPA ID Number: WAH000011486

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name: R TRANSPORT, INC

8. US EPA ID Number: WAH000028338

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
COLUMBIA RIDGE LANDFILL
18177 CEDAR SPRINGS LANE
ARLINGTON, OR 97812

10. US EPA ID Number: ORD987173457

G. State Facility ID

H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 — WM Profile # 110813OR	001	BA	19320	P	
b. — WM Profile #					
c. — WM Profile #					
d. — WM Profile #					

J. Additional Descriptions for Materials Listed Above: MOC-499C

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WECKER~~; 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 34140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK Croley	Charles S. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasmen	X Steve Gla	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Original
Ticket# 96770

Ph: 206 763 5025

Customer Name BRISTOL ENVIRONMENTAL REMEDIA
Ticket Date 12/29/2014
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 34120057/1108310R

Carrier R TRANSPORT R TRANSPORT
Vehicle# R58
Volume
Container
Driver JUSTIN BONN
Check#
Billing# 0000273
Grid

	Time	Scale	Operator	Inbound		
In	12/29/2014 12:21:28	SCALE 1	lmercer		Gross	76620 lb
Out	12/29/2014 12:21:28		lmercer		Tare	41700 lb
					Net	34920 lb
					Tons	17.46

Comments RTRANS-KF NC412/NC413

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.46	Tons				ALASKA
2	GONDOLA 18.87/TON-GONDOL	100	17.46	Tons				
3	FEA-FUEL,ENV,ADMIN	100	17.46	Tons				
4	LOCAL TRANS-LOCAL TRANS	100	1	Load				
5	MANIFEST FEE-MANIFEST FE	100	2	Each				

R-58

Total Tax
Total Ticket

Driver's Signature

203WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 412	2. Page 1 of 1

3. Generator's Mailing Address: USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898 **4. Generator's Phone** 907-753-2689	**Generator's Site Address** (If different than mailing): USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	A. Manifest Number 2028993 B. State Generator's ID AK00000228395
5. Transporter 1 Company Name NORTHLAND SERVICES	**6. US EPA ID Number** WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name R TRANSPORT, INC	**8. US EPA ID Number** WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	**10. US EPA ID Number** ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT WM Profile # 110813OR 31	001	BA	19460	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MOC-499A

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3414087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Croley	Charles E. Croley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Gorman	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc No. NC 413	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number 2028994
USACE, AK DISTRICT, NE CAPE PO BOX 6898, CEPOA-EN-EE-ER JBER, AK 9506-6898	USACE, ALASKA DISTRICT ST LAWRENCE NEC FACILITY-WIDE, NE CAPE ST LAWRENCE ISLAND SAVOONGA AK 99769	B. State Generator's ID AK00000228395
4. Generator's Phone 907-753-2689		

5. Transporter 1 Company Name	6. US EPA ID Number	
NORTHLAND SERVICES	WAH000011486	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	
R TRANSPORT, INC	WAH000028338	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
COLUMBIA RIDGE LANDFILL 18177 CEDAR SPRINGS LANE ARLINGTON, OR 97812	ORD987173457	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. MATERIAL NOT REGULATED BY DOT 31 WM Profile # 110813OR	001	BA	19740	P	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

MAC-4986

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

PLEASE MAIL ORIGINAL SCALE TICKETS AND CD TO: BRISTOL ENVIRONMENTAL REMEDIATION SERVICES ATTN: Russell James
~~ATTN: MOLLY WELKER,~~ 111 W 16TH AVE., 3RD FLOOR, ANCHORAGE, AK 99501

Purchase Order # 3140087 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chuck Crolley	Charles L. Crolley	10	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Steve Glasma	X [signature]	10	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kim Funk	Kim Funk	12	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

APPENDIX G

Standard Operating Procedures
(provided on CD)

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC

SOIL SAMPLING

STANDARD OPERATING PROCEDURE BERS-01

Record of Changes

Revision No.	Date	Prepared by	Approved by
0	01/15/08	B. Allen	S. Ruth
1	10/14/09	L. Maserjian	P. Curl
2	02/17/10	L. Maserjian	B. Allen

SOIL SAMPLING

STANDARD OPERATING PROCEDURE

Summary: Soil samples may be collected using a variety of methods and equipment. The methods and equipment used are dependent on the depth of the desired sample, the type of the sample required, and the soil type. Manual techniques and equipment, such as hand augers, are usually used for surface or shallow, subsurface soil sampling. Power-operated equipment is usually associated with collecting deep samples, but this equipment can also be used for collecting shallow samples.

Soil samples collected for volatile organic compound (VOC) analysis are handled in a manner that minimizes the loss of contaminants due to volatilization and biodegradation. Where required to meet project objectives, field extraction and preservation with methanol are performed to ensure sample integrity and representativeness during sample handling and transport.

Health and Safety: Sampling activity should only be conducted in accordance with an approved Site Health and Safety Plan.

Personnel Qualifications: Sampling personnel will be trained and certified as hazardous site workers per Title 29 Code of Federal Regulations, Part 1910.120(e) [29 CFR 1910.120(e)]. If applicable, additional qualification requirements will be specified in the site Quality Assurance Project Plan (QAPP) and will be met.

Equipment and Materials: Prior to deployment in the field, the requisite sampling equipment and materials will be identified, secured, and inspected for signs of damage or potential contamination. Sampling equipment will be selected to preserve the chemical and physical integrity of the samples. Equipment selection will be based on the depth of the samples to be collected and, to a certain extent, the characteristics of the material being sampled. Equipment used for sampling trace contaminants should be constructed of inert materials, such as Teflon® or stainless steel. Ancillary equipment, such as auger flights, post hole diggers, etc., may be constructed of other materials if this equipment does not come in contact with the samples. However, plastic, chromium, galvanized, painted, or rusted equipment should not be used for routine soil sampling operations.

- Sample containers for collecting samples using the methanol extraction and preservation method must be prepared and weighed in advance by the laboratory performing the analysis. Required equipment may include disposable plastic syringes and a clean, sharp utility knife.
- Surface soil is generally classified as soil between the ground surface and 6 inches below ground surface (bgs). Surface soil sampling equipment typically consists of spoons, shovels, hand-augers, push tubes, and post-hole diggers.

- Subsurface soil is generally soil that is at least 6 inches bgs, and can be collected using manual or powered sampling devices. Manual sampling devices consist of hand augers, push tubes, and post-hole diggers. Powered devices typically consist of power augers; split-spoon samplers, which are driven with a drill rig drive-weight assembly or hydraulically pushed using drill rig hydraulics; continuous split-spoon samplers; specialized hydraulic cone penetrometer rigs; and/or backhoes.
- In addition to soil sampling equipment, sampling support equipment may include Global Positioning System (GPS) or survey equipment for locating sample points, organic vapor analyzer with a photoionization detector (PID), tape measures, survey stakes or flags, stainless steel buckets/bowls or disposable aluminum pie pans, canvas/plastic sheet, pre-cleaned sample containers, decontamination supplies and equipment, safety equipment, logbooks, camera, chain-of-custody forms, and supplies for sample labeling, packaging, and shipping.
- Sample containers will be of the type and size specified in the governing QAPP.

Field Screening

Field-screening samples are typically collected either before or concurrently with laboratory analytical samples. Field screening before sample collection can help guide the selection of the most appropriate location to collect a laboratory analytical sample. Collecting field-screening samples concurrently with laboratory samples can help establish a correlation between screening and analytical results at a particular site. Field screening is commonly performed using an organic vapor analyzer, such as a PID.

Headspace PID Screening

Headspace PID screening samples are collected by filling a resealable Ziploc® bag approximately one-third to one-half full of freshly exposed or uncovered soil, and immediately sealing the bag. The soil should be agitated and then allowed to warm for approximately five minutes to an hour, to allow the headspace vapors to develop. After the headspace vapors have developed, insert the tip of a calibrated PID into the void headspace of the bag, and record the highest reading.

In-Situ PID Screening

In some instances, where a limited volume of soil is available for field screening, such as soil cores from a direct-push rig or split spoon, using the headspace method may use up material that potentially could be used for a laboratory analytical sample. In these cases, field screening of the soil may be performed by making small divots approximately every 6 inches along the length of the core, and inserting the calibrated PID tip just above the freshly exposed divot, taking care not to touch the material. Record the highest reading at each location in the field logbook or field form.

Surface Soil Sampling

1. If a thick, matted root zone is encountered at or near the surface, remove it before collecting the sample.
2. Carefully remove the top layer of soil or debris to the desired sample depth with a pre-cleaned spade.
3. Using a pre-cleaned, stainless steel scoop, spoon, or trowel, remove and discard a thin layer of soil from the area that came in contact with the spade.
4. Collect samples following procedures described in the General Soil Sampling Procedures Section.

Subsurface Soil Sampling: Subsurface samples can be collected using hand or power augers, Geoprobes®, split-spoon samplers, or from backhoes.

- Augering is the most common method used to collect shallow subsurface samples. The auger is used to bore a hole to the desired sampling depth. VOC samples are generally collected directly from the sampling device. Non-VOC samples are collected after thorough mixing. If a core sample is required, the auger tip is replaced with a thin wall tube sampler, and the system is lowered into the borehole and driven to the required sample depth. The system is withdrawn and the core is collected from the thin wall tube sampler.
- Geoprobe sampling uses a direct-push system that employs percussion power to essentially "hammer" sampling equipment (Macro-Core® samplers) into the subsurface to extract soil for laboratory analysis. The advantage of using a Geoprobe is that there is a much smaller hole diameter and minimal soil cuttings. The Macro-Core sampler is a solid barrel that is pushed into the subsurface for collecting continuous core samples of unconsolidated materials at depth. The Macro-Core soil samples are collected in a 4 to 5 foot long Teflon, polyvinyl chloride (PVC), or polyethylene terephalate glycol (PETG) liner; the samples can be obtained by splitting the liner or capped to it to preserve the samples for future analysis.
- On underground storage tank or contaminated soil excavation sites, a backhoe bucket is commonly used for collecting soil for samples. When a trench or excavation is deeper than four feet, the bucket of the backhoe or excavator will be used to collect soil, so that personnel do not climb into an unprotected hole.
- Power hand augers are commonly used to aid in the collection of subsurface soil samples at depths where hand augering is impractical. This equipment is a sampling aid, and not a sampling device; the typical lower depth range available with these devices is 20 to 25 feet. The power auger is used to advance a hole to the required sampling depth, at which point a hand auger is usually used to collect the sample.
- Split-spoon sampling provides for the collection and extraction of undisturbed soil cores of 18 or 24 inches in length. A series of consecutive cores may be extracted to

give a complete soil column profile, or an auger may be used to drill down to the desired depth for sampling. The split spoon is then driven to the sampling depth through the bottom of the augered hole, and the core is extracted. When used in conjunction with drilling, split-spoon samplers are usually driven either inside a hollow-stem auger or inside an open borehole after the rotary or cable tool drilling equipment has been temporarily removed.

- When split spoon or Macro-Core sampling is performed to gain geologic information, sampling will be performed in accordance with SOP BERS-06 Borehole Logging.
- Continuous split-spoon samplers may be used to obtain five-foot-long, continuous samples, approximately 3 to 5 inches in diameter. These devices are placed inside a five-foot section of hollow-stem auger and advanced with the auger during drilling. As the auger advances, the central core of soil moves into the sampler.
- Cone Penetrometer Rigs use a standard split spoon that is modified with a releasable tip to keep the spoon closed during the sampling push. Upon arrival at the desired depth, the tip can be remotely released and the push continued. During the subsequent push, the released tip floats freely up the inside of the sample barrel as the soil core displaces it. Split-spoon soil samples, therefore can be collected without drilling by simply pushing the device to the desired depth. This technique is particularly beneficial at highly contaminated sites, because cuttings are not produced as with drill rigs. This results in limited investigation-derived waste (IDW) and minimal exposure to sampling personnel.

Sampling using a Hand Drill with an Auger Attachment

1. Attach the auger bit to a drill-rod extension, and attach the “T” handle to the drill rod.
2. Clear the area to be sampled of any surface debris (e.g., twigs, rocks, and litter). It is generally advisable to remove the first three to six inches of surface soil.
3. Begin augering, periodically removing the auger from the hole and depositing accumulated soils onto a plastic sheet spread near the hole.
4. After reaching the desired depth, slowly and carefully remove the auger from the boring.
5. Remove auger tip from drill rods and replace with a pre-cleaned, thin-wall tube sampler. Install the proper cutting tip.
6. Carefully lower the tube sampler down the borehole. Gradually force the tube sampler into the soil. Take care to avoid scraping the borehole sides. Avoid hammering the drill rods to facilitate coring as the vibrations may cause the boring walls to collapse.
7. Remove the tube sampler and unscrew the drill rods.
8. Remove the cutting tip and the core from the device.
9. Discard approximately 1 inch off the top of the core. Place the remaining core into a labeled sample container without mixing.

10. Collect samples following procedures described in the General Soil Sampling Procedures Section.
11. If another sample is to be collected in the same hole, but at a greater depth, reattach the auger bit to the drill and assembly and follow steps 3 through 10, making sure to decontaminate the auger and tube sampler between samples.
12. Abandon the hole according to applicable state regulations.

Sampling using a Geoprobe with a Macro-Core Attachment

1. Clear the area to be sampled of any surface debris (e.g., twigs, rocks, and litter). It is generally advisable to remove the first three to six inches of surface soil.
2. Begin hammering the Geoprobe.
3. After hammering the depth of the Macro-Core (either 4 or 5 feet in length), slowly and carefully remove the Macro-Core from the hammer.
4. Open the Macro-Core tubing using a two-razor tool designed for the Macro-Core.
5. Use a pre-cleaned stainless steel spoon or knife to obtain soil from the core at selected locations, based on PID field screening.
6. Collect samples following procedures described in the General Soil Sampling Procedures Section. The Macro-Core is not reusable. Remove any soil on the core material, place the used core in a plastic trash bag (with as many used cores as will fit), tie the ends of the plastic bag, and dispose of it in a trash receptacle.
7. Abandon the hole according to applicable state regulations.

Sampling with a Hand Auger

1. Insert the hand auger into the material to be sampled at a 0° to 45° angle from the horizon.
2. Rotate the auger once or twice to cut a core of material.
3. Slowly withdraw the auger, with the slot facing upward.
4. Collect samples following the procedures described in the General Soil Sampling Procedures Section.

Sampling with a Split Spoon

1. Assemble the sampler by aligning both sides of barrel, then screw the drive shoe on the bottom and the headpiece on top.
2. Place the sampler perpendicular to the material sampled.
3. Using a well ring, drive the tube. Do not drive the tube past the bottom of the head piece, or the sample may be compressed.

4. Record the length of the tube used to penetrate the material being sampled, and the number of blows required to obtain this depth in the site logbook or on field data sheets.
5. Withdraw the sampler and open by unscrewing the bit and head, and splitting the barrel. Record the amount of recovery and soil type on the boring log. If a split sample is required, use a clean stainless steel knife to divide the tube contents in half, lengthwise.
6. Without disturbing the core, collect samples following the procedures described in the General Soil Sampling Procedures Section.

Sampling from a Backhoe

1. Collect samples from material in the center of the bucket.
2. Prior to collecting samples from soil in the backhoe bucket, dress the surface with a stainless steel shovel, spatula, knife, or spoon, to remove at least six inches of surface layer of soil, which may have been smeared across the trench wall as the bucket passed.
3. Be aware of "sluff" material in the bucket that is not representative of the specified sample depth.
4. Collect samples following procedures described in the General Soil Sampling Procedures Section.

General Soil Sampling Procedures:

1. If the QAPP requires field screening for VOCs using a PID, follow the procedures described in the Field Screening Section.
2. Collect samples in appropriate containers in order of volatility, with the most volatile samples collected first. Containers should be either pre-labeled or labeled immediately after sample collection. Follow the procedures for collecting volatile samples described in the following section.
3. For non-VOC samples, place the material into the appropriate container.
4. If a composite non-VOC sample is required, place the material from the designated sampling intervals or locations into a mixing bowl, mix thoroughly, and collect the sample from the mixture into the appropriate container.
5. If non-VOC duplicate, split, duplicate, or other quality assurance/quality control (QA/QC) samples are required, collect twice the routine amount of sample material, mix thoroughly, and fill two identical sets of sample containers.
6. Fill sample containers to the top with measures taken to prevent soil from remaining in the lid threads prior to being sealed.
7. After sample containers are filled, immediately seal them, chill them, and process them for shipment to the laboratory.

Volatile Sample Collection – Sample Collection for Methanol or other Preservative Extraction

General procedures for all volatile sample collection:

- Soil samples for volatile analysis can be collected using any of the sampling methods described above.
- When collecting soil for volatile sample analysis, always submit a separate non-preserved sample for moisture analysis/dry weight calculation, unless already submitting non-volatile samples from the same location.
- Never composite VOC samples.
- If VOC duplicate, split, or other QA/QC samples are required, collect and containerize samples that are co-located, not composited.
- If VOC samples are required, transfer the sample into a labeled sample container with a stainless steel laboratory spoon, or equivalent, and secure the cap tightly.
- Avoid placing pebbles or other large particles into the sample. To the extent practical, the sample should consist of sand, silt, or clay, with care to avoid rocks or pebbles.
- Ensure that the threads on the sample container and cap are free of soil particles. Wipe with a clean brush or paper towel if needed. The sample container should be open for the shortest time possible to prevent evaporation of the methanol and surrogate solution.
- After soil is placed in methanol or other preservative, it should be gently agitated or swirled so that the soil is immersed in the preservative. Do not shake the sample, as it may cause undue volatilization.

The different methods of collecting volatile samples with field extraction, using methanol or another preservative, are described in general below. Refer to the project QAPP for site-specific information on specific soil and methanol volumes required for the appropriate analytical method:

<u>Measuring 10 grams of soil into a VOA vial containing methanol</u>:

1. "Zero" one 40-milliliter volatile organic analyte (VOA) vial containing 10 milliliters of methanol on a small scale.
2. Use a disposable scoop to collect soil.
3. Very gently, transfer the soil into the vial until 10 grams of soil is weighed. Try not to let any soil drop outside the sample container onto the scale. Immediately cap the vial.
4. Ensure that the methanol does not splash. If methanol splashes or spills from the sample container, discard the container and re-sample.
5. Record the tare weight onto the sample sheet or label.

6. Repeat the process for the second VOA vial containing methanol.
7. Place the samples in a protective sleeve and store on ice until delivery to the laboratory.

Using a sampling coring device to collect soil for VOC analysis:

1. Coring devices (for example, En Core® or Terracore®) are disposable, and are not to be reused after each sample.
2. Push the core sampler into freshly exposed soil until the sample chamber is filled. Most of these devices deliver approximately 5 grams of soil.
3. Once the core is filled with soil, retrieve the coring device from the soil.
4. Wipe all soil from outside of the sampler. The soil plug should be flush with the mouth of the sampler.
5. If the QAPP requires using a preservative (for example methanol or sodium bisulfate), use the following preservation procedure:
    a. Place the mouth of the sampler into a pre-tared VOA vial containing the appropriate preservative, and extrude the sample by pushing the plunger down. Immediately cap the VOA vial.
    b. Place the labeled sample in protective padding and on ice.
6. If the QAPP requires freezing the samples unpreserved, use the following procedure:
    a. Place the mouth of the sampler into a pre-tared VOA vial containing exactly 5 milliliters of deionized water, and extrude the sample by pushing the plunger down.
    b. Cap the VOA vial and be sure the soil is below the water level. Gently swirl the vial.
    c. Repeat the process to collect a second soil vial.
    d. Immediately place the labeled sample in protective padding and on ice.
    e. As soon as practical, freeze sample in a freezer or by placing in a cooler containing dry ice.
    f. When freezing the soil vials, it is recommended that the vials be placed at a 45° angle to reduce the likelihood of vial breakage due to freezing.
7. If the QAPP requires submitting unpreserved, unfrozen samples that were collected using an EnCore device, use the following procedure:
    a. Immediately place the cap on the open end of the core. Place the capped core inside the foil sample bag. Make sure that the sample bag is labeled.
    b. Place the sample bag on ice for shipment to the laboratory for analysis within 48 hours.

Quality Control:

The following procedures apply:

- Samples will be packaged, handled, and shipped in accordance with SOP BERS-03 *Sample Management Procedures.*
- Equipment will be operated and used in accordance with the manufacturer's instructions, unless otherwise specified in the site QAPP.
- Equipment examination activities should occur prior to field deployment, and they should be documented.
- An equipment rinsate blank is generally required per matrix, and for each sampling event, to evaluate the potential of cross contamination from sampling equipment. Equipment rinsate blanks will be collected by pouring analyte-free water over the decontaminated sampling equipment.
- Depending on the needs of the project, a field blank may be required per matrix and for each sampling event to evaluate whether contaminants have been introduced into the samples during the sampling process. Field blank samples will be obtained by pouring analyte-free water into a sampling container at the sampling point.

Interferences and Potential Problems:

There are two primary problem areas associated with soil sampling: cross-contamination and improper sample collection.

Cross-contamination can be eliminated or minimized through the use of dedicated sampling equipment. If this is not possible or practical, field personnel will decontaminate sampling equipment as described in the site Sampling and Analysis Plan (SAP). Improper techniques may include using contaminated equipment, disturbing the matrix, compacting the sample, and inadequate homogenization of the samples, any of which can produce non-representative samples.

To safeguard against collecting non-representative soil samples, the following guidelines and techniques should be adhered to during sampling:

- Samples for VOC analysis should be collected before other samples are collected, and should be transferred immediately from the sampling device into the sample container to reduce volatilization. Step-by-step instructions for field extraction and preservation with methanol are described above.
- Anytime a vertical or near vertical surface, such as that which is achieved when shovels or backhoes are used for subsurface sampling, the surface should be dressed to remove the outer smear zone. This is necessary to minimize the effects of cross contamination due to smearing of materials from other levels.

- It is extremely important that soil samples intended for non-VOC analyses be mixed as thoroughly as possible to ensure that each sample is representative of the material sampled. The most common method of mixing is referred to as quartering. Where required by the QAPP, quartering will be performed as follows:
  a. Divide the material in the sample pan into quarters and mix each quarter individually.
  b. Mix two quarters to form halves.
  c. Mix the two halves to form a homogenous matrix.
  d. Repeat this procedure until the sample is adequately mixed.
  e. If round bowls are used for sample mixing, stir the material in a circular fashion, reversing direction, and occasionally turning the material over.
- One trip blank per cooler is generally required when submitting samples for VOC analysis. Trip blanks are prepared and sealed by the laboratory. They are transported to the field and returned, unopened, to the laboratory in the same cooler as the samples collected for VOC analysis.
- Methanol blanks may also be required when soil samples designated for VOC analysis are preserved with methanol.
- Blanks will be collected at the frequency and locations specified in the site QAPP. Blanks will be analyzed for the same target analytes as the associated field samples. Each blank will be assigned a unique sample number, and submitted blind to the laboratory.

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC

GROUNDWATER SAMPLING

STANDARD OPERATING PROCEDURE BERS-02

Record of Changes

Revision No.	Date	Prepared by	Approved by
1	10/14/09	B. Allen	L. Maserjian
2	02/16/2010	J. Clark	B. Allen/ J. Clark

GROUNDWATER SAMPLING

STANDARD OPERATING PROCEDURE

Summary: Groundwater samples are usually obtained from either temporarily or permanently installed groundwater monitoring wells. In order to obtain a representative groundwater sample, the stagnant water in the well casing and the water immediately adjacent to the well are purged before sample collection. Depending on the needs of the project, purging can be performed either by traditional methods (purging several full well volumes), or by the low stress/low flow method. Once purging is complete, samples are collected using a sampling device that does not affect the integrity or representativeness of the sample.

Health and Safety: Sampling activity should only be conducted in accordance with an approved Site Health and Safety Plan. Electric generators must be grounded to prevent possible electrical shock.

Interferences and Potential Problems: The primary problems associated with groundwater sampling are the collection of non-representative samples, and sample contamination from equipment or the environment. These can be eliminated or minimized through implementation of strict well purging and sample collection and handling procedures, and by the use of qualified personnel.

To safeguard against collecting non-representative stagnant water, the following guidelines and techniques should be adhered to during sampling:

- Monitoring wells should be pumped or bailed prior to sampling. This should be done in a manner that minimizes alterations to the water chemistry.
- The well should be sampled as soon as possible after purging and stabilization of indicator field parameters.
- Analytical parameters typically dictate whether the sample should be collected through the purging device or through separate sampling equipment.
- Portions of water that have been tested with a field meter probe will not be collected for chemical analysis.
- Excessive pre-pumping of the well should be avoided.

Personnel Qualifications: Sampling personnel will be trained and certified as hazardous site workers per Title 29 Code of Federal Regulations, Part 1910.120e [29 CFR 1910.120(e)]. If applicable, additional qualification requirements will be specified by the Bristol Quality Control Manager prior to any on-site sampling activity.

Equipment and Materials: Prior to deployment in the field, the requisite sampling equipment and materials will be identified, secured, and inspected for signs of damage or potential contamination.

- Ideally, purging and sample withdrawal equipment should be completely inert, economical, easily cleaned, reusable, able to operate at remote sites in the absence of power resources, and capable of delivering variable rates for sample collection. Adjustable rate, submersible and peristaltic pumps are preferred. Peristaltic pumps are only effective if groundwater depths are approximately 25 feet below the ground surface or shallower. When sampling for volatile contaminants, a pump that minimizes or eliminates volatilization should be selected. The use of inertial pumps is discouraged because of their tendency to cause greater disturbance during purging and sampling.
- Sampling and purging equipment (e.g., bailers, bladders, pumps, and tubing) should be made from stainless steel, Teflon®, polypropylene, or glass.
- The use of 1/4 or 3/8-inch inner diameter tubing is preferred. Clean, pharmaceutical grade tubing should be used in drawing and sampling groundwater. Water level measuring devices should be capable of measuring to 0.01-foot accuracy.
- In addition to groundwater sampling equipment, sampling support equipment may include water level indicators, depth sounder, water quality meter (such as YSI), keys for well caps, organic vapor screening device (such as photoionization detector [PID]), plastic sheeting, tubing, pre-cleaned sample containers, sample preservatives, decontamination supplies and equipment, safety equipment, logbooks, field forms, camera, chain- of-custody forms and seals, coolers and ice packs, and labeling, packaging, and shipping supplies. Sample containers will be of the type and size specified in the governing Quality Assurance Project Plans (QAPPs).

Field Preparation: Perform the following steps before any purging or sampling activities:

1. Pre-label and ready all the required sample containers.
2. To the extent known, plan to sample wells in order of increasing contamination.
3. Check the well for security damage or evidence of tampering, and record observations.
4. Record location, time of day, and date in field notebook.
5. Remove locking well cap and well casing cap.
6. Screen well headspace with a PID or equivalent, to determine the presence or absence of volatile organic compounds. Record instrument readings in the field logbook or field form.
7. Lower a water-level measuring device into the well until water surface is encountered and the instrument alarms.

8. Measure distance from water surface to reference measuring point on well casing or protective barrier post, and record in the field logbook or on the field form. If there is no reference point, measure from the top of the steel casing, top of PVC riser pipe, from ground surface, or some other position on the wellhead, and note in the field logbook or field form.
9. Measure the total depth of the well and record in the field logbook or field form. Measure well depth either the day before sampling or after all sampling in that well has been completed. Take care to minimize disturbance of the water column.
10. Calculate the volume of water in the well using the following calculations and data reduction:

    Well volume: $V = 0.041d^2h$

    V = volume of one well casing of water in *gallons*

    d = inner diameter of the well casing in *inches*

    h = total height of the water column in *feet*

    Based on this equation, one well volume can be calculated simply by multiplying the height of the water column in feet by the appropriate conversion factor, which is based on the casing diameter as follows:

Diameter	2-inch	3-inch	4-inch	5-inch	6-inch
Volume (gal/ft.):	0.1632	0.3672	0.6528	1.02	1.4688

11. Select the appropriate purging and sampling equipment based on requirements in the site-specific QAPP.

Purging: To ensure that a representative groundwater sample is collected, a well is typically purged prior to sample collection. Well purging is accomplished either by using low-flow procedures or removing a prescribed volume of water from the well (usually a minimum of three to five well volumes). During both purging methods, water quality parameters should be monitored for stabilization.

Purging may be performed by using bailers or pumping mechanisms. In general, a pump is preferred over a bailer for purging and sampling because it will not stress the well like dropping a bailer into the well. If using a pump, select a low removal rate in order to not stress the well. Tubing should remain filled with water, so as to minimize possible changes in water chemistry upon contact with the atmosphere.

If possible, avoid purging wells to dryness by slowing the purge rate. If the well has a poor recharge rate and is purged dry, sample the well once the water level has recovered sufficiently to collect the appropriate volumes for all required analyses. Record in the field logbook or on the field form that samples were collected, even though water quality parameters did not stabilize or the required volume of water was not removed.

If water quality parameters have not stabilized after 1 hour of purging, options include continued purging until stabilization is achieved, or collecting samples although stabilization has not been achieved. Record all actions taken in the field logbook or field form.

Once the purging requirements have been met, the groundwater sample can be collected. Collect and dispose of purge water and solid investigation-derived waste (IDW) as prescribed in the site-specific QAPP.

These procedures are used for sampling events that require purging prior to sampling. For some projects, sampling may be performed without purging the well first. Refer to the non-purge sampling procedures.

Low-flow purging

For low-flow purging and sampling, the Region 1 U.S. EPA Low Flow Guidance Document [*Low Stress (low flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells*, July 30, 1996, Revision 2] will be followed, and is summarized below.

1. After the water level and total well depth have been measured, lower the submersible pump or tubing (Teflon, polyethylene, or other approved material) for peristaltic pump slowly (to minimize disturbance) into the well to the middle of the submerged, screened interval of the well, or appropriate depth based on site-specific conditions. Placing the pump or tubing in this manner will reduce the risk of drawing down the water table to below the pump intake, thus preventing the introduction of air into the sample tubing.
2. Before starting the pump, measure the water level and record it on the Groundwater Low Flow Purging Form.
3. Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet, but remains stable, continue purging until indicator field parameters stabilize (described in Number 5, below).
4. Monitor and record water level and pumping rate every 3 to 5 minutes during purging. If a flow rate meter is present, record the pumping rate every 3 to 5 minutes as well. Record any pumping rate adjustments (both time and flow rate). Pumping rates should, as needed, be reduced to the minimum capabilities of the pump to ensure stabilization of indicator parameters. Adjustments are best made in the first 15 minutes of pumping. The final purge volume must be greater than the stabilized drawdown, plus the extraction tubing volume.
5. Monitor indicator field parameters every 3 to 5 minutes during purging, with a calibrated combination type meter (i.e., YSI, etc.). The following field parameters will be monitored: turbidity, temperature, specific conductance, pH, oxidation-

reduction potential (ORP), and dissolved oxygen (DO). All measurements, except turbidity, must be obtained using a flow-through cell. Transparent flow-through cells are preferred. This allows the field personnel to watch particulate buildup within the cell. If the cell needs to be cleaned during purging, continue pumping and disconnect the cell for cleaning. Then reconnect and continue monitoring.

6. Groundwater samples can be collected after the field parameters stabilize within the following limits:
   - Turbidity: +/- 10% for values greater than 1 nephelometric turbidity units (NTUs)
   - DO: +/- 10 %. Note: DO may not stabilize unless using a flow-thru cell. If not using a flow-thru cell, disregard this parameter for the purpose of establishing stability
   - Specific conductance: +/- 3%
   - Temperature: +/- 3%
   - pH: +/- 0.1 pH units
   - ORP: +/- 10 millivolts

Purging is considered complete and sampling may begin when all of the above indicator field parameters have stabilized. Do not change the flow rate of the pump prior to sampling. Remove the flow through cell prior to collecting the groundwater samples, and collect directly from the pump discharge.

General well purging – removing specified volume of water

During general well purging, a specified minimum volume of water (usually three to five well casing volumes) should be purged prior to sampling. Water temperature, pH, turbidity, DO, ORP, and specific conductance should be periodically measured during purging using a calibrated combination type meter (i.e., YSI, etc.). These parameters should be measured and recorded approximately every three to five minutes, or after each well volume is removed. The sample can be collected after the required volume of water has been purged and the parameters have stabilized within the limits described above in Number 6 of the low-flow purging section.

Purging Methods

Pumping mechanisms – peristaltic pumps, submersible pumps, non-contact gas bladder pumps, and suction pumps, etc.

1. Assemble the pumping unit. For more information on pump assembly and operation, refer to the specific user's manual for the type of pump used.
2. Lower the tubing (peristaltic pump) or pump/tubing assembly (submersible pumps)

into the well to the midpoint of the zone to be sampled. If possible, keep the tubing or pump intake at least 2 feet above the bottom of the well, to minimize mobilization of particulates present in the bottom of the well.

3. Attach a water quality meter to the outlet tubing to monitor water quality parameters.
4. If required, attach a flow meter to the outlet tubing to measure the volume and rate of water purged.
5. Attach the power supply (typically a battery, generator, etc.). Use a ground fault circuit interrupter (GFCI), or ground the generator to avoid electric shock.
6. Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Adjust the pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet, but remains stable, continue purging until indicator field parameters stabilize.
7. During purging, monitor water quality parameters and water level drawdown.
8. After water parameters have stabilized, disconnect the water quality meter and flow meter, then collect sample.

Bailer purging

1. Attach the line to the bailer and slowly lower until completely submerged, be careful not to drop the bailer to the water, which would cause turbulence and the possible loss of volatile contaminants.
2. Pull bailer out, while ensuring that the line either falls onto a clean area of the plastic sheeting or that it never touches the ground.
3. Empty the bailer into a pail of known volume (for example, a five-gallon bucket, preferably graduated). Use the volume of the pail to estimate the amount of water removed.
4. During purging, monitor water quality parameters.
5. Remove the required amount of water.
6. If water quality parameters have stabilized, the sample can be collected. If parameters have not stabilized, continue purging until stabilization has been achieved, or collect sample if directed to do so by the project manager.

Sampling: Sampling may be accomplished using pumping mechanisms or bailers. Care must be exercised during the use of bailers because of their tendency to disturb sediment, leading to increased turbidity.

General procedures

1. If using a pumping mechanism, do not change the flow rate maintained during purging.
2. Remove the water quality and flow rate meters, if used.
3. If using a pumping mechanism, collect non-filtered samples directly from the outlet tubing into the sample bottle. For filtered samples, connect the pump outlet tubing directly to the filter unit. The pump pressure should remain decreased so that the pressure buildup on the filter does not blow out the pump bladder, or displace the filter.
4. For certain projects, sampling may be performed without purging the well first, typically using a bailer. It is preferable to record the water quality parameters (turbidity, DO, specific conductance, temperature, pH, and ORP) before the sample is collected. Non-purge sampling will be performed in accordance with the steps below.
5. If using a bailer, lower the bailer slowly and gently into the well, taking care not shake the casing sides or to splash the bailer into the water. Stop lowering at a point adjacent to the screen. Allow the bailer to fill and then slowly and gently retrieve the bailer from the well, avoiding contact with the casing, so as not to knock flakes of rust or other foreign materials into the bailer. If the bailer comes with a Bottom Emptying Devise (BED), place the BED into the bottom of the bailer. Fill the sample containers from the BED. A specific BED for volatile samples is recommended because it reduces the outflow to a very low laminar rate. This device is typically purchased separately from the bailers.
6. Collect samples in appropriate containers in order of volatility, with the most volatile samples collected first. Containers should be either pre-labeled or labeled immediately after sample collection. For collecting volatile samples using the zero-headspace procedure, follow procedures specified at the end of this section.
7. Fill containers slowly (avoid turbulence).
8. Filter and preserve samples as specified in the site-specific QAPP.
9. If duplicate samples, split samples, or other quality assurance/quality control (QA/QC) samples are required, collect them at the same time as the primary sample.
10. Cap sample containers tightly and place into a sample cooler. Samples must be chilled and maintained at a temperature of 4 degrees Celsius. Do not allow samples to freeze.
11. Replace the well cap.
12. Log all samples in the field notebook or on field forms.
13. Package samples and complete requisite paperwork.
14. Dispose of all liquid and solid IDW in accordance with project planning documents.

Volatile sampling using zero-headspace procedure

1. Open the sample vial, set cap in clean place, and fill the vial just to overflowing. Do not rinse the vial or allow excessive overflowing. There should be a meniscus on the top of the filled vial.
2. Check that the cap has not been contaminated and carefully cap the vial. Slide the cap directly over the top and screw down firmly. Do not over tighten because the cap may break.
3. Invert the vial and tap gently. It is imperative that no air is entrapped in the sample vial. If an air bubble appears that is smaller than approximately 1.0 millimeter, the sample is still viable. If the bubble(s) are larger, discard the sample and begin again.
4. Place the vial in a protective foam sleeve, and then place into the cooler.

Quality Control: The following procedures apply:

- Samples will be packaged, handled, and shipped as prescribed in BERS-03 *Sample Management Standard Operating Procedure.*
- Equipment will be operated and used in accordance with the manufacturer's instructions, unless otherwise specified in the site-specific QAPP.
- Equipment examination activities should occur prior to field deployment, and they should be documented. It is especially important to check that the correct number and type of sample bottles are being sent/taken to the field prior to starting the field activities.
- Depending on the needs of the project, if using non-disposable equipment, collect an equipment rinsate blank to evaluate the potential for cross contamination from the purging or sampling equipment. Collect equipment rinsate blanks by pouring analyte-free water over the decontaminated sampling equipment.
- Depending on the needs of the project, a field blank may be required per matrix and for each sampling event to evaluate whether contaminants have been introduced into the samples during the sampling process. Field blank samples will be obtained by pouring laboratory-grade, certified organic-free water (for organics) or deionized water (for metals) into a sampling container at the sampling point.
- One trip blank per cooler is required when submitting samples for volatile organic analysis. Trip blanks for water and soil samples are prepared and sealed by the laboratory. They are transported to the field and returned, unopened, to the laboratory in the same cooler as the samples collected for volatile organic compound (VOC) analysis.
- Blanks will be collected at the frequency and locations specified in the site-specific QAPP. Blanks are analyzed for the same target analytes as the associated field samples. Each blank receives a unique sample number and is submitted blind to the laboratory.

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC

MONITORING WELL INSTALLATION

STANDARD OPERATING PROCEDURE BERS-07

Record of Changes

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0	01/15/09	B. Allen	L. Maserjian
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MONITORING WELL INSTALLATION

STANDARD OPERATING PROCEDURE

Summary: A borehole is drilled into the ground at the pre-designated location and to the pre-defined depth. Depending on the hydrogeologic conditions of the site and the project objectives, a variety of drilling methods can be used. The most common of these include hollow-stem augering, direct-push drilling, mud rotary drilling, and air rotary drilling.

Well drilling and construction activities will follow all applicable state and local regulations and standards. In the event that a monitoring well is abandoned, all applicable state regulations will be followed. In general, the borehole is sealed, the well casing and screen are removed, and the borehole is cleaned and backfilled. Monitoring wells will be constructed by a driller holding a valid well-driller license, issued by the state where the work is performed.

Health and Safety: Field activities should only be conducted in accordance with an approved Site Health and Safety Plan.

Drilling rigs and equipment present a variety of safety hazards. Field personnel working around drilling rigs should know the position of the emergency "kill" switch. Wires, lines, and ropes should be inspected, and frayed or damaged sections discarded. Swivels and blocks should turn freely. Gages should be operational and controls clearly marked. Underground utilities should be clearly marked, and drillers should be aware of any overhead hazards, such as power lines. Drilling should be avoided in these areas. Ear protection should be worn when working around drilling equipment for extended periods of time, particularly air rotary equipment.

Personnel Qualifications: Field personnel will be trained and certified as hazardous site workers per Title 29 Code of Federal Regulations, Part 1910.120(e) [29 CFR 1910.120(e)]. If applicable, additional qualification requirements will be specified in the site Quality Assurance Project Plan (QAPP), and will be met.

Equipment and Materials: Prior to deployment in the field, the requisite sampling equipment and materials will be identified, secured, and inspected for signs of damage or potential contamination.

The following equipment is necessary for the project's on-site geologist/hydrogeologist:

- Depth sounder or measuring tape
- Water level indicator
- All required health and safety gear
- Description aids (e.g., Unified Soil Classification System [USCS] classification chart, Munsell color chart, grain size charts, etc.)

- Field logbook
- Photoionization detector (PID).

Equipment and tools to install the well are normally provided by the drilling contractor and include the following:

- Drilling equipment appropriate to the site conditions, drilling depth, and other project requirements.
- Threaded flush-jointed riser pipe of an approved material (e.g., Schedule 40 polyvinyl chloride [PVC], 2-inch diameter).
- Threaded flush-jointed slotted screen, made of an approved material (e.g., Schedule 40 PVC, 2-inch diameter) to meet design criteria.
- Well centralizers.
- Properly sized and washed filter pack material (silica sand).
- Bentonite pellets or chips.
- Powdered bentonite.
- Portland cement (American Society for Testing and Materials [ASTM] Types I or II).
- Steel-protective casing with locking cap.
- Tremie pump/box and pipe.

Planning: Drilling and well installation programs must be planned and supervised by an environmental professional. The following steps will be used to plan well installation activities:

- Review existing data on site geology and hydrogeology, including publications, air photographs, water quality data, and existing maps.
- Conduct an on-site assessment to determine potential access problems for drill rig. Locate water supply sources, establish equipment storage area, and observe outcrops.
- Perform utilities check. Note location of underground utilities and overhead electrical wires.
- Select drilling, sampling, and well development methods.
- Determine well construction specifications (e.g., casing and screen materials, casing and screen diameter, screen length and screen interval, filter pack, and screen slot size).
- Determine disposition requirements for drill cuttings and fluids.
- Prepare the work plan, site QAPP, and Site Health and Safety Plan.
- Prepare and execute the drilling subcontract.

Well Construction Materials

All well construction casing and downhole equipment will be thoroughly cleaned prior to downhole use.

Casing Material – The well casing material should not interact with the groundwater. Well casings for environmental projects are usually constructed of PVC or stainless steel. Carbon steel or other appropriate material can also be used, if approved by the regulatory agency. Casing sections can be joined using welded or threaded joints. If using PVC casing, Schedule 40 should be used for shallow wells, and Schedule 80 may be required for deeper wells (greater than 60 feet).

Borehole Diameter – When installing a standard well using hollow-stem auger, the borehole diameter will be a minimum of 4 inches larger than the casing diameter, to allow for emplacement of sand and sealant. When installing a prepacked well, or when using the direct-push drilling method, the borehole diameter may not be 4 inches larger than the casing diameter.

Casing Diameter – 2-inch diameter casing is recommended for most monitoring wells. Larger diameter casing may be required for some applications, and when using the direct-push drilling method, it may be necessary to use smaller diameter casing.

Well Screen – The most common well screen length is 10 feet, though other lengths can be used as required by site-specific conditions, and as allowed by regulatory agencies. The well screen will consist of continuous-slot, machine slotted, or other manufactured PVC or stainless steel well screen. The screen must be installed across the water table. The screen will be installed at a depth that will prevent the water table from ever being above the top of the screen or below the bottom of the screen, taking into account seasonal water table fluctuation. A slot size of 0.010 inches is generally adequate for most installations.

Bottom Cap – A threaded bottom cap will be used.

Filter Pack – The filter pack material will consist of clean silica sand, and be properly sized to prevent fine particles in the formation from entering the well. Clean, medium-to-coarse silica sand is generally adequate as filter pack material for a 0.010-inch slotted well screen. The filter pack will extend at least 2 feet above the top of the screen, unless the water table is shallow enough to prevent optimal well completion.

Bentonite Seal – A bentonite seal will be placed above the filter pack. The bentonite seal will be composed of bentonite chips or pellets (3/8-inch in size or smaller). The bentonite seal will be at least 2 feet in thickness, unless the water table is shallow enough to prevent optimal well completion.

Annular Space Above Bentonite Seal – The annular space above the bentonite seal will be composed of any of the following:

- Bentonite-cement grout (5 pounds of powdered bentonite to 94 pounds of Portland cement, with 6.6 to 8.5 gallons of clean water);
- Neat cement grout (94 pounds of Portland cement, with 5 to 6 gallons of clean water); or,
- Bentonite grout (20 percent solids, created by mixing 50 pounds of bentonite grout with 24 gallons of clan water).

Monument Boxes – For abovegrade monument boxes, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) will be poured around the shroud and wellhead. The concrete and surrounding soil will be sloped to direct rainfall and runoff away from the wellhead. Bollards (steel posts) are recommended around the monument box to protect the wellhead from vehicle damage. For below-grade monitoring wells, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) will be poured around the monument box. The concrete and surrounding soil will be sloped to direct rainfall and runoff away from the well vault.

Well Construction Methods

Overburden (Unconsolidated) Wells: Any of the drilling methods discussed in this SOP can be used to drill or set a well in the unconsolidated material (overburden). The hollow stem or direct-push method are the preferred choices for shallow (<100 feet) overburden wells.

Field personnel will take the following precautions when constructing overburden wells:

1. The project engineer/geologist will determine the screen slot size based on sand pack size. The length of screen used will be site dependent.
2. Under no circumstances should the sand pack extend into more than one aquifer. In most cases, the well design can be modified to allow for a sufficient sand pack without threat of crossflow between producing zones through the sand pack.

Field personnel will implement the following steps when constructing overburden wells:

1. Advance the borehole to the required depth using the selected drilling method. The hole should be drilled approximately one foot deeper than required for the combined length of casing and screen. The final completion depth should be sounded with a decontaminated, weighted tape before continuance of well placement.
2. Withdraw the drill rods if using the rotary or direct-push method. Check the hole depth with a weighted surveyor's tape.
3. Prepare the casing and screen for installation. Attach a threaded cap to base of well screen. Decontaminate the casing and screen using a steam pressure water sprayer before assembly, if not previously done. Tighten joints to manufacturer's specifications.
4. Place at least one foot of filter pack on the bottom of the boring to provide a firm footing for the well.

5. When the casing string is set to the desired depth, hang the centered casing in place. For deeper wells (greater than 60 feet), centralizers may be used near the top and bottom of the well screen.
6. There should be 2 to 3 feet of stickup above the ground surface once the well has been lowered to its final position, unless the wellhead is flush mounted because of its location. Place the well screen across the water table. When constructing a well in a confined aquifer, the top of the well screen is generally positioned just above the interface of the saturated zone and the overlying confining layer.
7. Place a filter pack of clean, silica sand between the well screen and the side of the boring by slowly pouring the sand between the well casing and the boring annulus (gravity feed). Check the elevation of the sand pack periodically by sounding with a weighted tape measure. The filter pack should extend at least 2 feet above the top of the screen to prevent bentonite from penetrating into the screened section and altering groundwater geochemistry. The filter pack may extend less than 2 feet above the top of the screen, if groundwater is shallow enough to prevent optimal well completion.
8. The auger flights/drill casing should be withdrawn slowly, so that the filter pack is placed evenly around the screen without bridging.
9. Allow the filter pack to settle. Check the depth to the top of the filter pack with a weighted tape.
10. In materials that will not maintain an open hole using hollow-stem augers, the temporary or outer casing will be withdrawn gradually during placement of sand pack/grout. For example, after filling 2 feet with sand pack, the outer casing should be withdrawn 2 feet. This step of placing more sand and withdrawing the outer casing should be repeated until the level of the sand pack is approximately 3 feet above the top of the well screen. This ensures that there is no locking of the permanent (inner) casing in the outer casing.
11. Place a bentonite seal of a minimum of 3-foot vertical thickness in the annular space above the sand pack to separate the sand pack from the cement surface seal. Using a tremie pipe, or using gravity feed for shallow wells (<35 feet), place bentonite pellets or chips (not powder) onto the top of the filter pack. Bentonite pellets can be used if the seal is to be seated below the water table. Slurried bentonite may be used if an unusually high water level exists in the well and precludes the use of bentonite pellets. If a tremie pipe is used, slowly withdraw the pipe as the bentonite is added, to ensure even placement of the bentonite seal around the annulus. Check the depth with a weighted tape.
12. If the bentonite seal is installed above the water table, hydrate according to the manufacturer's specifications. Allow adequate hydration time before dismantling.
13. If a slurry of bentonite is used as an annular seal, it is prepared by mixing powdered or granular bentonite with potable water. The slurry must be of sufficiently high specific gravity and viscosity to prevent its displacement by the grout to be emplaced above it. As a precaution (regardless of depth), and depending on fluid viscosity, a few handfuls of bentonite pellets may be added to solidify the bentonite slurry surface.

14. To prevent pellets from entering the well casing, a cap will be placed over the top of the well casing before pouring the bentonite pellets.
15. Place cement and/or bentonite grout from the top of the bentonite seal to the ground surface.
16. Fill the annulus with grout from the top of the annular seal until undiluted grout flow from the annulus at the ground surface. Grout may be placed by pouring or by pumping the grout through a tremie pipe (normally a 1.25-inch PVC or steel pipe).
17. If the well is completed above ground, a protective casing will be installed. The protective casing will be constructed of metal, and will be at least 5 feet in length. The protective casing will extend approximately 1.5 to 3 feet above the ground surface, and will be set in concrete or cement grout. The protective casing diameter should be 4 inches greater in diameter than the well casing. A 0.5-inch drain hole may be installed near ground level. A flush-mount protective casing may be used in areas of high traffic, or where access to other areas would be limited by a well stick-up.
18. Install a protective steel cap, and secure it to the protective casing by a padlock.
19. Steel bollards should be installed around the protective casing in areas where vehicle traffic may be a problem. Posts should have a minimum diameter of 3 inches, with a minimum height of 4 feet.
20. Label and date monitoring wells with paint, engraving, or steel tags.

Bedrock Wells: Bedrock wells will be drilled using the air or mud rotary method and completed as an open-hole, providing that borehole cave-in is not a possibility. Crystalline rock wells are usually drilled most efficiently with the air rotary method, while consolidated sedimentary formations are drilled using either the air rotary or mud rotary method.

Well Development: Well development is the process by which the aquifer's hydraulic conductivity is restored by removing drilling fluids and fine-grained formation material from newly installed wells. The monitoring well should be developed so that formation water flows freely through the screen and is not turbid, and all sediment and drilling disturbances are removed from the well.

The most common method of well development is surging and bailing. A well is considered developed when the pH and conductivity of the groundwater stabilizes, and the measured turbidity is less than 50 nephelometric turbidity units (NTUs).

Field personnel will implement the following steps to develop the well:

- Measure the total depth (TD) of the well and depth to water (DTW).
- Using an appropriately-sized surge block, surge 5-foot sections of well screen, using 10-20 up/down cycles per section. Periodically remove the surge block and bail accumulated sediment from the well, as required. Ensure that the surge block and bailer are properly decontaminated before use.

- Water quality parameters will be measured periodically during well development. When turbidity is less than 50 NTU and pH and conductivity have stabilized, development is complete.
- For some wells, it may not be possible to achieve turbidity of less than 50 NTU, even when pH and conductivity have stabilized. In these instances, field personnel should note the final turbidity on the Well Development Form.

If used for collection of water quality parameters, the pump selected must be rated to achieve the desired yield at a given depth. The pump system should include the following:

- A check valve to prevent water from running back into the well when the pump is shut off.
- Flexible discharge hose.
- Safety cable or rope to remove the pump from the well.
- Flow meter monitoring system (measuring bucket or inline flow meter).

The amount of water removed during development will be recorded on the Well Development Form. The pump rate and water quality parameters (pH, conductivity, and turbidity) will also be recorded every 5 to 10 minutes.

Well Abandonment: When a decision is made to abandon a monitoring well, the borehole should be sealed in such a manner that the well cannot act as a conduit for migration of contaminants from the ground surface to the water table or between aquifers.

To properly abandon a well, the preferred method is to completely remove the well casing and screen from the borehole, clean out the borehole, and backfill with a cement or bentonite grout, neat cement, or concrete. The grout should be pumped from the bottom of the borehole to the ground surface using a tremmie pipe. If the casing cannot be removed, bentonite-cement grout, neat cement grout, or bentonite grout must be emplaced in the well using a tremie pipe from the bottom of the well to the ground surface.

In order to comply with state well abandonment requirements, the appropriate state agency should be notified (if applicable) of monitoring well abandonment. However, some state requirements are not explicit, so a technically sound well abandonment method should be designed based on the site geology, well casing materials, and general condition of the well(s).

Data Management and Records Management: Well construction, development, and abandonment records will be generated and maintained as prescribed in the governing QAPPs. Well installation data will be documented on field data sheets or in the logbooks.

Interferences and Potential Problems: The main source of problems in well installation is a flawed design, usually resulting in the use of drilling or installation procedures that are not appropriate or optimal for the site conditions. The design and installation of permanent

monitoring wells involve drilling into various types of geologic formations that exhibit varying subsurface conditions. Designing and installing permanent monitoring wells in these geologic environments may require several different drilling methods and installation procedures.

The selection of drilling methods and installation procedures should be based on field data collected during a hydrogeologic site investigation and/or a search of existing data. Each permanent monitoring well should be designed and installed to function properly throughout the duration of the monitoring program. When designing monitoring wells, the following should be considered:

- short-and long-term objectives
- purpose(s) of the well(s)
- probable duration of the monitoring program
- contaminants likely to be monitored
- types of well construction materials to be used
- surface and subsurface geological/hydrogeological conditions (e.g., presence of heaving sand or artesian conditions)
- properties of the aquifer(s) to be monitored
- well screen placement
- general site conditions
- potential site health and safety hazards.

The advantages and disadvantages of each drilling method are evaluated based on these considerations. Advantages and disadvantages of the various drilling methods are summarized below.

Direct-Push Drilling

The advantages of direct-push drilling are:

- Zero cuttings (except from Macro-Core® sampling)
- Fast in shallow situations
- Sampling cores (Macro-Cores) 4 to 5 feet long
- Can be used to install temporary or permanent wells
- Small rig can access tight areas; easy to transport to remote locations.

The disadvantages of direct-push drilling are:

- Small rigs have limited depth
- Can only install wells up to 2 inches in diameter.

Auger Drilling

The advantages of auger drilling are:

- Relatively fast and inexpensive
- Because augers act as temporary casings, drilling fluids are not used, resulting in reduced well development.

The disadvantages of auger drilling are:

- Very slow or impossible to use in coarse materials, such as cobble or boulders
- Cannot be used in some consolidated formations, and is generally limited to depths of approximately 100 feet.

Mud Rotary Drilling

The advantages of mud rotary drilling are:

- Fast, more than 100 feet of borehole advancement per day is common
- Provides an open borehole, necessary for some types of geophysical logging and other tests
- Can drill through consolidated bedrock.

The disadvantages of mud rotary drilling are:

- Potential for cross-contamination of water-bearing zones
- Drill cuttings may be mixed and not accurately represent lithologies at a given drilling depth
- Drilling mud may alter the groundwater chemistry
- Water levels can only be determined by constructing wells
- Drilling mud may change local permeability of the formation, and may not be entirely removed during well development
- Disposal of large volumes of drilling fluid and cuttings may be necessary if they are contaminated.

Air Rotary Drilling

The advantages of air rotary drilling are:

- Fast, more than 100 feet of borehole advancement a day is possible
- Preliminary estimates of well yields and water levels are often possible
- No drilling fluid to plug the borehole
- Can drill through consolidated bedrock

The disadvantages of air rotary drilling are:

- Generally cannot be used in unconsolidated formations.
- In contaminated zones, the use of high-pressure air may pose a significant hazard to the drill crew because of transport of contaminated material up the hole.
- Introduction of air to the groundwater could reduce concentration of volatile organic compounds (VOCs).

Sonic Drilling

The advantages of sonic drilling are:

- One of the fastest drilling methods available
- Minimizes generation of waste (soil cuttings)
- Can drill through some types of bedrock
- Allows for continuous core sampling

The disadvantages of sonic drilling are:

- More expensive than most drilling methods
- Occasionally requires use of water or other drilling fluid
- In some consolidated formations, may generate heat which could volatize VOCs prior to sample collection.

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC

INCREMENTAL SAMPLING

STANDARD OPERATING PROCEDURE BERS-14

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0	02/23/10	L. Maserjian	P. Curl
1	06/14/12	M. Faust	J. Sharp-Dahl

INCREMENTAL SAMPLING

STANDARD OPERATING PROCEDURE

Method Summary: Incremental sampling (IS) is a prescribed sampling and sample processing methodology for obtaining soil samples that are representative of a defined volume of soil (referred to as a decision unit [DU]). The IS methodology is designed to minimize sampling error and data variability in order to provide statistically sound, unbiased estimates of the mean concentration of a contaminant for the DU. Performed properly, IS may result in more consistent and reproducible analytical results than discrete soil sampling procedures.

An incremental sample consists of multiple increments collected from throughout a DU or sampling unit (SU) and thus may be considered a type of "composite sample". However, it differs significantly from traditional composite samples in a number of ways, for example, a single incremental sample consists of a large number of increments of equal mass collected from an entire DU or SU in an unbiased manner. This sampling method results in an adequate total sample mass to overcome effects of compositional heterogeneity. In addition, laboratory processing procedures (including air drying of the entire sample, reduction of particle size, and incremental subsampling) distinguish incremental samples from conventional composite samples.

Proponents of incremental sampling argue that, unlike conventional composite samples, incremental samples can and should be compared directly to risk-based screening levels. Risk-based screening levels are model-based mean concentrations over an exposure area or source specified in the model. Thus, mean concentrations over an exposure area are more appropriate for comparison to screening levels than discrete results.

Potential advantages of IS include the following:

- IS can reduce overall sampling error. Various studies have shown that concentrations of contaminants that were measured using IS were statistically more representative of true conditions than traditional sampling and analytical protocols.
- IS can be very effective for determining the arithmetic mean of constituents that exhibit a high degree of spatial/distributional heterogeneity.
- Fewer samples are sent to the analytical laboratory for analysis, resulting in a potential reduction in analytical costs.

Different regulators may have their own guidance for performing IS, which should be followed and incorporated into site-specific work plans. This Standard Operating Procedure (SOP) summarizes Bristol's typical IS procedures.

Health and Safety: Sampling activity should only be conducted in accordance with an approved Site Health and Safety Plan.

Personnel Qualifications: Sampling personnel will be trained and certified as hazardous site workers per Title 29 Code of Federal Regulations, Part 1910.120(e) (29 CFR 1910.120[e]). If applicable, additional qualification requirements will be specified in the site Quality Assurance Project Plan (QAPP) and will be met.

Terminology: The following terms have specific definitions when used in an incremental sampling (IS) context, and are subsequently defined here for clarity:

- ***MULTI INCREMENT®*** – *MULTI INCREMENT* is a registered trademark of EnviroStat, Inc. *MULTI INCREMENT* (MI) sampling refers to a specific IS procedure. Although IS, as used by various entities, is a fairly broadly-defined term, the sampling procedures described in this SOP most closely resemble MI sampling.
- **Increment** – Increments are the relatively small volumes of sample material that are collected from locations spaced throughout a decision unit and together make up an incremental sample.
- **Sampling unit (SU)** – SU is a term sometimes used for a volume of soil from which an incremental sample is collected and used to determine an estimate of the mean concentration of the volume.
- **Decision unit (DU)** – A DU is the smallest volume of soil from which a decision will be made based on the results of the IS. Most commonly, a DU is represented by one primary incremental sample and the term SU is not used. Occasionally, a DU will consist of multiple SUs (and will be represented by multiple primary incremental samples). For clarity, the term DU is used in this document.
- **Sampling grid** – For each DU, a sampling grid is established to cover the approximate extent of the DU and consists of a number (defined in the project's work plan, but typically between 30 and 50) of equally sized squares.
- **Grid cell** – These are the individual squares that make up a sampling grid.
- **Sample processing** – After an incremental sample is collected, it is commonly processed through procedures, such as drying, sieving, and/or grinding, which will facilitate representative sub-sampling. Bristol's standard procedure is for incremental sample processing to be conducted in the analytical laboratory.
- **Sub-sampling** – After an incremental sample has been processed, it is sub-sampled in a prescribed manner so that the material that the laboratory analyzes is representative of the entire volume of the incremental sample.
- **Analytical aliquot** – The sample material that results from sub-sampling and laboratory analysis is referred to as the analytical aliquot.
- **Replicates** – Replicates are additional incremental samples collected from a specified DU for quality control purposes.

Equipment and Materials: Equipment typically used in the course of IS include the following: visible markers (pin flags, survey tape, or lathe), at least two cloth measuring tapes (with length in metric units or decimal feet), a sampling tool, a container in which to combine increments (typically a 5-gallon bucket), sample containers (typically 1-gallon zip-top bags), and decontamination equipment (detergent such as Alconox, distilled water, spray bottles, scrub brushes, etc.).

For cohesive surface soils, the sampling tool should be a hand-operated coring device. Increments should be cylindrical (core-shaped) and at least 16 millimeters in diameter in order to minimize sampling error caused by grain-size bias. Various sampling tools are available that collect core samples, including tools specifically designed for IS (for example, the Cold Regions Research Engineering Laboratory [CRREL] *MULTI INCREMENT* Sampling Tool [CMIST] available for rent or purchase from EnviroStat, Inc.) and simple brass or stainless steel sleeves that can be hand driven into the ground. When collecting samples at depth or in particularly hard material, slide hammers may be required. A variety of options (including coring devices of various diameters) should be brought into the field, unless conditions of site soils are already known.

For non-cohesive surface soils, it may be necessary to use a sampling scoop to collect increments because soils will drop out of a coring device. When using a scoop, an effort must still be made to collect an entire core-shaped increment at each increment location. To minimize sampling error caused by grain-size bias, a scoop with a flat bottom and square sides (rather than a curved bottom) should be used.

Incremental sampling of subsurface soil is uncommon; however, when it is conducted, it should be completed with drilling equipment capable of collecting core samples. Using direct-push drilling equipment that collects continuous samples in acetate sleeves is preferred in these situations.

Conducting IS for volatile organic compounds (VOCs) is also uncommon; however, when it is conducted, it will require VOC coring devices (for example, a Terra Core sampler) that collects small plugs of soil and either a single-sample container (should be a pre-tared, narrow-mouth, 500-millilter amber bottle with a Teflon-lined lid) containing an extraction solvent (volume adjusted for the mass of soil to be collected), or individual VOC vials for each plug of soil that is combined at the analytical laboratory may be required due to shipping restrictions for the extraction solvent.

Prior to deployment in the field, the requisite sampling equipment and materials will be identified, secured, and inspected for signs of damage or potential contamination. Sampling equipment will be selected to preserve the chemical and physical integrity of the samples. Equipment selection will be based on the depth of the samples to be collected and, to a certain extent, the characteristics of the material being sampled. Equipment used for sampling trace contaminants should be constructed of inert materials, such as Teflon or stainless steel. Ancillary equipment, such as auger flights, post hole diggers, etc., may be constructed of other materials if this equipment does not come in contact with the samples. However,

chromium and galvanized, painted, or rusted equipment should not be used for routine soil sampling operations.

Bristol does not typically do IS sample processing or sub-sampling in the field; therefore, equipment required for these tasks is not presented here. Any other special equipment required should be detailed in the work plan.

Systematic Planning: The selection of IS as an appropriate sampling methodology, as well as the definition of DUs, must be a result of a systematic planning process, including development of conceptual site models and articulation of project objectives and data needs. Two examples of systematic planning processes that may be followed are the U.S. Environmental Protection Agency's data quality objectives and the US Army Corps of Engineers technical project planning process. The systematic planning process is used in the development of work plans and should be completed prior to conducting any fieldwork, and is thus not covered in detail in this SOP.

Decision Units: The designation of DUs should be conducted during the systematic planning process and is thus not covered in detail in this SOP. The size, shape, and location of all DUs should be clearly identified in the work plan.

Decision units represent a volume of soil for which a project decision will be made. For some projects, the term SU will be used to represent a volume of soil from which an IS sample will be collected. Often, a DU consists of one SU, rendering use of the term SU unnecessary. Other times, multiple SUs are defined within a DU. This may be done for many reasons, including when it has been deemed necessary to provide more data on the spatial variability or distribution of contamination, or when a DU is so large that it cannot be sampled at the desired density due to practical considerations. Combined, SUs may cover the entire DU, or they may be spaced throughout the DU and require interpolation to estimate a mean concentration for the DU. Regardless of how SUs are used, the mean concentration for a DU should be used for decision making, as long as the DU has been defined correctly in the systematic planning process.

The main types of DUs include source area DUs and exposure area DUs. Source area DUs are based on known or assumed contamination extents, while exposure area DUs are based on exposure assumptions of risk assessments. Examples of source area DUs include areas of stained soil or areas where contaminants were known to be stored. Examples of exposure area DUs include residential lots or the home ranges of ecological receptors.

One example of a situation where IS may be used includes excavations of contaminated soil. As a decision on whether the soil has been completely removed must be made at depth, as well as in lateral directions, individual DUs would commonly be defined for the excavation floor as well as all sidewalls of the excavation.

Stockpiles of contaminated soil represent another common DU, as well as an illustration of the fact that DUs represent a volume of soil and thus exist in three dimensions. If the depth of

the DU is significantly greater than the length of the sampling tool (coring device), it is necessary to space the increments throughout the DU vertically as well as horizontally.

Sampling Methodology: The following section describes three typical IS procedures. The first is the one most commonly used by Bristol to collect surface soil incremental samples for non-volatile analytes. Also included are less commonly used methods for collection of incremental samples for volatile analytes, as well as subsurface incremental samples.

Typical Non-Volatile Analysis Surface Soil IS Procedures

1. Based on the definition of the DU as described in the work plan, and possibly aided by GPS, figures, or aerial photographs, establish the location of the DU in real space by marking the corners (for example, with pin flags, lathe, and/or surveyor's tape).
2. Design a sampling grid composed of square cells of equal size that covers approximately the entire DU. If not established in the work plan, it will be necessary to determine the dimensions of the cells, so that the sampling grid consists of an appropriate number of cells (typically between 30 or 50, but the ideal number should be stated in the work plan). The size of the grid cells is typically established to the nearest whole dimension (for example, 5-foot square rather than 5.1-foot square) for practical purposes. If the DU is more complex than a simple rectangle, it will likely be necessary to design the sample grid on paper prior to establishing it on the ground.
3. Establish the sampling grid by marking cell corners with pin flags or equivalent. At a minimum, it will be necessary to mark all cell corners along the edges of the sampling grid. Depending on the complexity of the grid and presence of visual obstructions, it may also be necessary to mark some or all cell corners within the interior of the sampling grid. This may be done to assist samplers in accurately visualizing increment locations while collecting samples. It is often helpful to alternate colors of pin flags along the edges of the grid, so that a sampler can identify which pin flags correspond with each other along straight lines across the sampling grid.
4. Select increment locations in a systematic and random fashion, which is typically done as follows:
    a. Establish a random increment location within a sample cell. This is generally done by generating random numbers to be used as the coordinates for the increment location within a sample cell. For example, if a cell measures 10 feet by 10 feet, the sampler should generate two random numbers between 1 and 10. If these numbers were 6 and 4, for example, the sampler would then establish an increment location within the cell of 6 feet along one dimension of the cell and 4 feet along the other. Random numbers may be generated in a number of ways (including dice or the =RAND() function in an Excel

worksheet), as long as each number within the prescribed range has an equal chance of being selected.

b. A random increment location is only generated once for each sample. Increments will then be collected from the equivalent location within each cell of the sample grid.

5. If not done previously, decontaminate sampling equipment, including the 5-gallon bucket in which increments will be aggregated and the sampling tool (coring device). Decontamination should be conducted by scrubbing with a mixture of water and Alconox, followed by a rinse with distilled water. Decontamination is not required while working within a DU, but all equipment should be decontaminated or disposed of prior to moving on to another DU. All decontamination water generated is typically containerized for proper disposal. Procedures for containerization and disposal of decontamination water should be detailed in the work plan.

6. Using the sampling tool, collect an increment from each grid cell at the randomly established location. Deposit all increments into the 5-gallon bucket. Refer to the work plan for the targeted depth interval; this is most commonly the upper few inches of soil, though in some situations it may be required to remove some amount of soil from the surface because of concerns about contaminant loss from volatization at the surface.

7. Once all increments have been collected, label the sample containers with an indelible marker. Sample ID, date, time, sampler, and analyses required should be recorded on the container. Bristol typically uses 1-gallon zip top bags for IS sample containers. Always double bag IS samples to protect from container failure. Both the inner and outer bag must be labeled. CAREFULLY transfer the sample material from the 5-gallon bucket to the sample containers, making sure to include as much of the fine material as practical. It is Bristol's standard IS procedure to aim for a sample volume that nearly fills a 1-gallon zip-top bag (this should be enough material to satisfy typical requirements for minimum sample mass, such as the 1-kilogram requirement in EPA method 8330B). This is done by varying the diameter of the increment coring device, not by adjusting the length of the sample depth interval. However, if more than 1 gallon of soil has been collected, transfer the remaining soil to another sample container labeled with the same sample ID. All sample material must be submitted to the analytical laboratory.

8. In a similar fashion to discrete environmental samples, the IS sample should be transferred to a sample refrigerator or ice sample cooler as soon as possible for sample preservation purposes.

Volatile Analysis IS Procedures

Conducting IS for volatile analytes is complicated by the need for immediate field preservation (typically with methanol). There are two common methods for collecting an IS sample that requires field preservation: collecting increments into a large container containing methanol, or collecting increments into individually preserved volatile organic analytes (VOA) vials and having the analytical laboratory combine the increments. The individually preserved VOA vials method is more labor intensive, but may be required to mitigate volume limitations if samples are going to be shipped by air. It must be determined in the project planning phase whether this will be required.

1. For either method, collect increments using a VOC coring device (typically a high-density polyethylene syringe; for example, the Terra Core system). The coring devices collect soil in small plugs (typically approximately 5 grams in mass). When sampling for volatile analytes, a non-preserved sample should be collected as well for percent moisture determination. Thus at each increment location, two 5-gram plugs will be collected: one for field preservation and one unpreserved for moisture content. When done in conjunction with sampling for non-volatile analytes in surface soil, the VOC plugs would be co-located with the larger increments collected for non-volatiles.
2. Add soil plugs to methanol using method a or b below:
   a. If using the one large bottle method, the analytical laboratory should provide a pre-tared, narrow-mouth, amber bottle with a Teflon-lined lid and predetermined amount of methanol. The method requires a minimum 1:1 ratio of methanol to sample material; therefore, an estimate of the mass of the sample will be required in the project planning stage in order to acquire a sample bottle with the appropriate amount of methanol from the laboratory.

      At each increment location, use the VOC coring device to collect two plugs of soil, placing the first into the narrow-mouth amber bottle and the second into an unpreserved sample container (for example, a 4-ounce [oz.] glass jar).
   b. If using the multiple VOA vial method, the analytical laboratory should provide enough pre-tared VOA vials with Teflon-lined lids and a predetermined amount of methanol. The method requires a minimum 1:1 ratio of methanol to sample material; therefore, an estimate of the mass of each increment will be required in the project planning stage in order to acquire VOA vials with the appropriate amount of methanol from the laboratory.

      At each increment location, use the VOC coring device to collect two plugs of soil, placing the first into a VOA vial and the second into an unpreserved sample container (for example, a 4-oz glass jar). A new VOA vial will be used for each increment, while one 4-oz glass jar can be used to consolidate all of the increments in a given sample for moisture content determination. Each of the VOA vials for a particular sample (depending on the number of increments,

there may be between 30 and 50 vials) should be labeled with the same sample ID, date, time, etc. The analytical laboratory should be given instructions to combine methanol extract from the VOA vials into one sample.

Take care to collect the increments quickly with minimal disturbance and exposure to air to avoid loss of volatiles.

Keep in mind that, in most cases, it will be required to remove the first few inches (often up to 6 inches) of soil from the ground surface prior to collecting increments for volatile analyses. This should be specified in the work plan.

Subsurface IS Procedures

- Subsurface soil IS sampling is possible, but because good spatial coverage for the entire three-dimensional DU is still required, the practical application of IS must be considered during project planning. It may be determined that discrete sampling and/or field screening may represent more cost-effective methods of investigation.
- Samples must be collected with equipment that is capable of collecting a complete core sample of the depth interval that makes up the DU. For example, direct-push drilling equipment that collects complete core samples in acetate sleeves is an effective sampling tool. The steps shown below are oriented toward this type of equipment, though procedures may be adapted.
- Due to the spatial coverage requirements of IS, the number of increments in a subsurface soil incremental sample is limited by the number of borings that penetrate the DU depth interval. It is typically not permitted to collect multiple increments for one IS sample from one boring because increments should be equally distributed spatially throughout a DU. Thus, a subsurface IS sample should require 30 borings, at a minimum, just as the minimum number of increments in an incremental sample is typically 30.
- There are three main methods of collecting subsurface soil IS samples from cores. Listed in order of decreasing preference, they are as follows: the entire core method, the core wedge method, and the core slice method.
    1. For the entire core method, the entire core for the depth interval that is defined by the DU is collected as one increment and then combined with the other increments to make up the IS sample. From a sampling error standpoint, this is the most preferred subsurface IS procedure, as it produces the representative sample. However, there are practical limitations of shipping and processing such large samples.
    2. For the core wedge method, a wedge of the core that is continuous for the entire depth interval is collected as the increment. Typically, the core would be split vertically and one half would be collected. This can easily cut the sample volume in half (in comparison to the whole core method); however, it does introduce additional bias and sampling error into the IS procedure.

3. For the core slice method, one slice of predetermined thickness (perpendicular to the core) is collected from a randomly selected location within the depth interval being sampled. Each slice is collected as an increment. This is the least preferred method, as it introduces even more bias and sampling error into the procedure than the core wedge method.

For each of the three methods listed above, a spatula, knife, or other implement will be required for manipulating the core sample. The increments can be collected first into 5-gallon buckets and then into zip-top bags, similar to surface soil IS samples.

Sample Processing and Sub-Sampling: Of equal importance to initial sampling procedures, incremental samples must also be processed and sub-sampled. It is Bristol's standard procedure to utilize an analytical laboratory that provides these services and not to conduct them in the field. The processing and sub-sampling procedures that are required should be established during the project planning phase and/or detailed in an SOP developed by the analytical laboratory. The typical steps of laboratory processing on an incremental sample for non-volatile analysis include:

1. Spread the entire sample out on a tray and allow it to air dry.
2. Remove non-representative particles (large rocks, twigs, etc.) and disaggregate clumped material.
3. Sieve the entire sample using a 10-mesh screen.
4. Optional: Grind (using a ball or ring-and-puck mill) the entire sample to achieve a uniform particle size. This step is generally preferred, but for metals analyses there may be concern for contamination from breakdown of grinding equipment.
5. Spread the sample out on a sheet and collect a sub-sample of 30 increments using a IS approach.

Quality Assurance/Quality Control

Replicate samples are collected and analyzed for quality control purposes. It is Bristol's standard procedure to collect replicate sets (each set consisting of two replicates, often referred to as a duplicate and a triplicate) at a minimum rate of 1 for every 10 similar primary incremental samples. For example, if a project involves 9 incremental excavation floor samples, one of the floor samples should be replicated twice (for a total of 11 samples). If a project involves six incremental excavation floor samples and three samples of undisturbed surface soil, one of the floor samples should be replicated twice, and one of the undisturbed ground samples should be replicated twice (for a total of 13 samples).

Replicates should be collected from the same sample grid as the primary sample, but from different increment locations. A practical way to achieve this is to generate a second set of random numbers (as described in step 4 of the Typical Non-Volatile Surface Soil IS

Procedures above) and then proceed with sample collection starting at step 6. The same procedure would be followed for the third sample (generating a third set of random numbers).

In some instances, for example background studies, it may be required to collect more than two replicates from a DU. In these instances, the number of replicates will be detailed in the work plan, but the procedures will be the same for whatever number of replicates is required.

Relative Standard Deviation and 95% Upper Confidence Limit (UCL) Calculations

A relative standard deviation (RSD) of 30% or less is generally the quality control goal of IS. At RSDs greater than 35%, the data distribution starts to become non-normal and confidence in the representativeness of the incremental sample results diminish. The RSD is calculated as presented below:

$$RSD(\%) = 100s/x_m$$

Where:

s = standard deviation

x_m = mean

The 95% UCL is calculated using the standard deviation and mean. The 95% UCL is especially relevant for concentrations at or near the action level. The 95% UCL is calculated as presented below:

$$95\%UCL = x_m + [ts/n_{sqrt}]$$

Where:

n = number of samples

x_m = mean

t = 95% one-side student t factor (e.g., for n=3, t=2.92)

n_{sqrt} = square root of "n" (e.g., the square root of 3 = 1.73205…)

s = standard deviation

For IS replicate data sets that include one or two non-detect results, the lowest value reported by the laboratory, either the method detection limit (MDL) or practical quantitation limit (PQL), should be substituted for the sample result to perform both calculations. If all replicate results are non-detect, the calculations are not required.

Resources:

Interstate Technology & Regulatory Council. 2012. *Technical and Regulatory Guidance, Incremental Sampling Methodology*. Prepared by the Interstate Technology & Regulatory Council Incremental Sampling Methodology Team. February 2012. Washington, DC.

State of Alaska, Department of Environmental Conservation. 2009. *Draft Guidance on MULTI INCREMENT Soil Sampling*. Division of Spill Prevention and Response Contaminated Sites Program. March 2009.

US Army Corps of Engineers. 2009. *Interim Guidance 09-02: Implementation of Incremental Sampling (IS) of Soil for the Military Munitions Response Program*. Environmental and Munitions Center of Expertise Interim Guidance. July 20, 2009.

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APPENDIX H

Analytical Sample Results

Table H1 MOC Well Soil Sample Results

Analysis Method	Analyte	Unit	Cleanup Level[1]	Evaluation Criteria[2]										
				Sample ID	14NCWELLSS01	14NCWELLSS02	14NCWELLSS03	14NCWELLSS04	14NCWELLSS05	14NCWELLSS06[D]	14NCWELLSS07	14NCWELLSS08	14NCWELLSS09	14NCWELLSS10
				Laboratory ID-DRO/RRO	580-44811-1	580-44811-2	580-44811-3	580-44811-4	580-44811-5	580-44811-6	580-44811-7	580-44811-8	580-44811-9	580-44811-10
				Laboratory ID-other	580-44828-1	580-44828-2	580-44828-3	580-44828-4	580-44828-5	580-44828-6	580-44828-7	580-44828-8	580-44828-9	580-44828-10
				Location ID	14MW07	14MW07	14MW02	14MW02	14MW03	14MW03	14MW03	14MW01	14MW01	14MW04
				Collection Date	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014	8/5/2014
				Sample Depth	16.5-20'	21.5-25'	10-12'	18-20'	16-17'	17-18'	23.5-25'	15.5-16.5'	23-24'	7.5-10'
AK101	GRO	mg/Kg	NA	300 [2]	ND (2.1)	ND (2.0)	240	4.5 B	110	74	22 B	2.9 B	3.3 J B	26
AK102	DRO	mg/Kg	9200 [1]	NA	12 J	ND (16)	5.9 J	ND (17)	93	97	65	7.3 J	6.4 J	200
AK103	RRO	mg/Kg	9200 [1]	NA	ND (16)	ND (16)	ND (16)	ND (17)	ND (17)	ND (16)	ND (17)	ND (17)	ND (17)	69
6020	Arsenic	mg/Kg	11 [1]	NA	5.3	5.4	3.9	5.2	4.3	4.3	3.1	4.6	6.8	4.3
6020	Barium	mg/Kg	NA	1100 [2]	62	58	67	66	46	49	32	40	89	48
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.22	0.26	0.26	0.38	0.23	0.25	0.25	0.25	0.40	0.23
6020	Chromium	mg/Kg	NA	25 [2]	17 QH	15	15	15	22	23	13	11	17	11
6020	Lead	mg/Kg	NA	400 [2]	26	33	24	33	57	56	38	21	45	19
6020	Nickel	mg/Kg	NA	86 [2]	13	13	11	13	11	12	7.4	7.1	16	7.9
6020	Selenium	mg/Kg	NA	3.4 [2]	0.80	0.85	0.75 J	0.94	0.93	1.0	0.72	0.80	1.4	0.80
6020	Silver	mg/Kg	NA	11.2 [2]	0.12 J	0.16 J	0.071 J	0.12 J	0.13 J	0.15 J	0.095 J	0.066 J	0.17 J	0.063 J
6020	Vanadium	mg/Kg	NA	3400 [2]	26 QH	23	24	23	21	23	17	18	29	17
6020	Zinc	mg/Kg	NA	4100 [2]	50	59	50	67	79	79	57	43	96	42
7471A	Mercury	mg/Kg	NA	1.4 [2]	0.018 QN	0.018	0.017	0.012 J	ND (0.0070)	ND (0.0077)	ND (0.0081)	0.0058 J	0.014 J	0.015 J
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	ND (.011)
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	ND (.011)
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	ND (.011)
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	ND (.011)
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	ND (.011)
8082	PCB-1254	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.011)	ND (.012)	0.13
8082	PCB-1260	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.012)	ND (.012)	ND (.012)	0.0052 J	0.0051 J	ND (.012)	ND (.011)	ND (.012)	0.083
8260B	Benzene	mg/Kg	2000 [1]	NA	ND (0.0085)	ND (0.0079)	ND (0.0095)	ND (0.0091)	ND (0.0073)	ND (0.0067)	ND (0.0087)	ND (.0056)	ND (.0093)	ND (.0085)
8260B	Ethylbenzene	mg/Kg	6.9	6.9[2]	ND (0.0085)	ND (0.0079)	0.14	0.016 J B	0.210 QN	0.015 J B QN	0.014 J B	ND (.0056)	ND (.0093)	.0050 J B
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.0085)	ND (0.0079)	0.12	0.011 J B	ND (0.0073)	ND (0.0067)	0.071 J B	ND (.0056)	ND (.0093)	ND (.0085)
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.0085)	ND (0.0079)	ND (0.0095)	ND (0.0091)	ND (0.0073)	ND (0.0067)	ND (.0087)	ND (.0056)	ND (.0093)	ND (.0085)
8260B	Xylenes (Total)	mg/Kg	NA	63 [2]	ND (0.017)	ND (0.0158)	0.12	0.011 J	ND (0.0146)	ND (0.0134)	0.0071 J	ND (.0112)	ND (.0186)	ND (.017)
8260B	Toluene	mg/Kg	NA	6.5 [2]	0.0031 J B	ND (0.0079)	ND (0.0095)	ND (0.009.1)	ND (0.0073)	ND (0.0067)	ND (0.0087)	ND (.0056)	ND (.0093)	ND (.0085)
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	0.00077 J	0.00050 J	0.21	0.064	0.14	0.16	0.3	0.02	.0011 J	0.12
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	0.0011 J	0.00062 J	0.19	0.058	0.11	0.12	0.29	0.019	.00098 J	0.19
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	ND (0.0016)	ND (0.0017)	0.0088	0.0022 J	0.038	0.041	0.052	.0016 J	ND (.0018)	0.035
8270C SIM	Acenaphthylene	mg/Kg	NA	180 [2]	ND (0.00054)	ND (0.00056)	ND (0.00056)	ND (0.00061)	ND (0.00058)	ND (0.00056)	ND (0.00058)	ND (.00052)	ND (.00059)	ND (0.00054)
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	ND (0.0016)	ND (0.0017)	0.00078 J	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0017)	ND (.0016)	ND (.0018)	0.0055
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	ND (0.00054)	0.00044 J	0.0019 J	ND (0.00061)	0.00084 J	0.0011 J	ND (0.00058)	ND (.00052)	ND (.00059)	0.01
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	12 [2]	ND (0.0016)	ND (0.0017)	0.0018 J	ND (0.0018)	0.00074 J	0.0011 J	ND (0.0017)	ND (.0016)	ND (.0018)	0.009
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	120 [2]	ND (0.0016)	ND (0.0017)	0.0019 J	0.00072 J	0.00059 J	0.00085 J	ND (0.0017)	ND (.0016)	ND (.0018)	0.0097
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	2.1 [2]	ND (0.0016)	ND (0.0017)	ND (0.0017)	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0017)	ND (.0016)	ND (.0018)	0.0030 J
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	38700. [2]	ND (0.0016)	ND (0.0017)	0.0012 J	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0017)	ND (.0016)	ND (.0018)	0.0093
8270C SIM	Chrysene	mg/Kg	NA	360 [2]	0.00066 J	ND (0.00056)	0.0024 J	0.0013 J	0.00093 J	0.0013 J	ND (0.00058)	.00044 J	.00048 J	0.015
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.0016)	ND (0.0017)	ND (0.0017)	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0017)	ND (.0016)	ND (.0018)	ND (0.016)
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	ND (0.00054)	ND (0.00056)	0.0032 J	0.00036 J	0.0017 J	0.0021 J	ND (0.00058)	ND (.00052)	ND (.00059)	0.02
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	ND (0.0016)	ND (0.0017)	0.025	0.0033 J	0.1	0.11	0.14	.0050 J	ND (.0018)	0.000077
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41.0 [2]	ND (0.0016)	ND (0.0017)	0.00089 J	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0017)	ND (.0016)	ND (.0018)	0.0035 J
8270C SIM	Naphthalene	mg/Kg	120 [1]	NA	0.00062 J	0.00057 J	0.072	0.08	0.15	0.19	0.19	0.08	.0055 J	0.11
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	0.0019 J	0.0013 J	0.009	0.0037 J	0.018	0.021	0.033	.0028 J	.0015 J	0.046
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	ND (0.00054)	ND (0.00056)	0.0031 J	0.00051 J	0.0018 J	0.0021 J	0.00042 J	ND (.00052)	ND (.00059)	0.024

Notes:

--analysis not requested

[1]Cleanup Level Established in 2009 Decision Document

[2]Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[2]

[D]Sample is a field duplicate of preceding sample.

µg/kg = micrograms per kilogram

J = Result is an estimate

mg/kg = milligrams per kilogram

NA = Not Applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QN = One or more quality parameters was out of control with no directional bias.

Table H1 MOC Well Soil Sample Results (continued)

Analysis Method	Analyte	Unit	Cleanup Level[1]	Evaluation Criteria[2]							
				Sample ID	14NCWELLSS11	14NCWELLSS12	14NCWELLSS13	14NCWELLSS14[D]	14NCWELLSS15	14NCWELLSS16	TB14NC080614
				Laboratory ID-DRO/RRO	580-44811-11	580-44829-1	580-44829-2	580-44829-3	580-44829-4	580-44829-5	580-44829-6
				Laboratory ID-other	580-44828-11	580-44828-12	580-44828-13	580-44828-14	580-44828-15	580-44828-16	580-44828-17
				Location ID	14MW04	14MW5	14MW5	14MW5	14MW6	14MW6	
				Collection Date	8/5/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014
				Sample Depth	13.5-15'	2.5-4'	12.5-14.5'	12.5-14.5	7.5-9.5'	12-14'	NA
AK101	GRO	mg/Kg	NA	300 [2]	24 B	4.3 B	83	68	120	110	2.6 J
AK102	DRO	mg/Kg	9200 [1]	NA	440	18 J	190	130	470	29	--
AK103	RRO	mg/Kg	9200 [1]	NA	32 J	ND (16)	ND (16)	ND (17)	ND (14)	ND (18)	--
6020	Arsenic	mg/Kg	11 [1]	NA	3.9	4.2	2.9	2.7	6.2	4.5	--
6020	Barium	mg/Kg	NA	1100 [2]	59	30	28	26	79	180	--
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.22	0.20	0.20	0.19	0.28	0.28	--
6020	Chromium	mg/Kg	NA	25 [2]	13	8.3	7.9	7.6	15	24	--
6020	Lead	mg/Kg	NA	400 [2]	22	36	29	24	25	15	--
6020	Nickel	mg/Kg	NA	86 [2]	9.3	7.6	4.7	4.7	12	20	--
6020	Selenium	mg/Kg	NA	3.4 [2]	0.91	0.70	0.90	0.74	0.95	0.93	--
6020	Silver	mg/Kg	NA	11.2 [2]	0.086 J	0.061 J	0.058 J	0.046 J	0.13 J	0.10 J	--
6020	Vanadium	mg/Kg	NA	3400 [2]	20	13	14	13	26	38	--
6020	Zinc	mg/Kg	NA	4100 [2]	49	39	47	49	53	56	--
7471A	Mercury	mg/Kg	NA	1.4 [2]	0.013 J	0.0075 J	0.0060 J	ND (0.0090)	0.013 J	0.041	--
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.012)	ND (.012)	--
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.012)	ND (.012)	--
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.012)	ND (.012)	--
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.012)	ND (.012)	--
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (.012)	ND (.011)	ND (.011)	ND (.012)	ND (.012)	ND (.012)	--
8082	PCB-1254	mg/Kg	1.0 [1]	NA	ND (.012)	0.012 J	0.061 QN	0.210 QN	0.0094 J	ND (.012)	--
8082	PCB-1260	mg/Kg	1.0 [1]	NA	0.062	0.005.3 J	0.022 J	ND (0.012)	0.0044 J	ND (.012)	--
8260B	Benzene	mg/Kg	2000 [1]	NA	.0088 J B	ND (0.0059)	ND (0.0052)	ND (0.0054)	ND (0.0062)	0.028 B	0.0046 J
8260B	Ethylbenzene	mg/Kg	6.9	6.9[2]	0.095	ND (0.0059)	0.14	0.13	0.58	0.74	0.0045 J
8260B	m,p-Xylene	mg/Kg	NS	NS	0.12	ND (0.0059)	0.14	0.13	0.42	0.54	0.0065 J
8260B	o-Xylene	mg/Kg	NS	NS	0.0063 J B	ND (0.0059)	0.0047 J B	ND (0.0054)	ND (0.0062)	0.21	0.0043 J
8260B	Xylenes (Total)	mg/Kg	NA	63 [2]	0.1263 J	ND (0.0118)	0.0144.7 J	0.13	0.42	0.75	0.0108 J
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.0081)	ND (0.0059)	ND (0.0052)	ND (0.0054)	ND (0.0062)	ND (0.0067)	0.018 J
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	0.93	0.022	3.9	3.8	**16**	0.22	--
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	1.5	0.013	3.9	4	**22**	0.27	--
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	0.035	0.0021 J	0.17	0.15	0.77	0.0074	--
8270C SIM	Acenaphthylene	mg/Kg	NA	180 [2]	ND (0.00056)	ND (0.00055)	ND (0.0027)	ND (0.0031)	ND (0.012)	ND (0.00064)	--
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	0.0034 J	ND (0.0016)	.0071 J	0.0067 J	0.039 J	ND (0.0019)	--
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	0.0059	0.00074 J	0.0058 J	0.0047 J	ND (0.012)	0.00059 J	--
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	12 [2]	0.0069	0.00067 J	0.0050 J	0.0039 J	ND (0.036)	ND (0.0019)	--
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	120 [2]	0.0079	0.00074 J	0.0049 J	0.0039 J	ND (0.036)	0.00077 J	--
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	2.1 [2]	0.0025 J	ND (0.0016)	ND (0.0081)	ND (0.0092)	ND (0.036)	ND (0.0019)	--
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	38700. [2]	0.00.6	ND (0.0016)	0.0062 J	0.0050 J	ND (0.036)	ND (0.0019)	--
8270C SIM	Chrysene	mg/Kg	NA	360 [2]	0.012	0.00086 J	0.0086 J	0.0067 J	ND (0.012)	0.0017 J	--
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.0017)	ND (0.0016)	ND (0.0081)	ND (0.0092)	ND (0.036)	ND (0.0019)	--
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	0.018	0.00098 J	0.015	0.0099 J	ND (0.012)	0.00094 J	--
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	0.089	0.0057	0.42	0.37	2.1	0.019	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41.0 [2]	0.0033 J	ND (0.0016)	0.0036 J	0.0031 J	ND (0.036)	ND (0.0019)	--
8270C SIM	Naphthalene	mg/Kg	120 [1]	NA	0.54	0.0062	2.1	2	18	0.33	--
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	0.061	0.0024 J	0.21	0.2	1.4	0.017	--
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	0.02	.00010 J	0.015 J	0.010 J	0.022 J	0.0011 J	--

Notes:

--analysis not requested

[1]Cleanup Level Established in 2009 Decision Document

[2]Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[2]

[D]Sample is a field duplicate of preceding sample.

µg/kg = micrograms per kilogram

J = Result is an estimate

mg/kg = milligrams per kilogram

NA = Not Applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QN = One or more quality parameters was out of control with no directional bias.

Table H2 MOC MNA Groundwater Parameters 2010-2014

		Well ID	26MW1					22MW2				
		Sample ID	26WA01	WA02	WA02	13NCMOCGW-01	14NCMOCGW01	22WA01	WA03	WA01	13NCMOCGW-02	14NCMOCGW02
		Date	8/16/10	7/16/11	7/8/12	7/19/2013	8/20/2014	8/14/10	7/16/11	7/8/12	7/19/2013	8/20/2014
Analyte	Units	Method Detection Limit										
Ferrous Iron	mg/L	0.01	<0.01	0.05	<0.03	0.05	0.02	<0.01	<0.01	<0.03	ND	0.02
Manganese	mg/L	0.2	<0.2	0.20	0.20	0.5	0.2	<0.2	<0.2	0.1	0.2	0
Sulfate	mg/L	2	6.0	10.00	6.00	10	6	12.0	7.00	12.00	16	6
Nitrate	mg/L	0.4	0.3	1.30	0.26	0.12	0.05	0.6	1.00	0.34	0.16	0.08
Alkalinity	mg/L	0	0.0	40	40	40	80	0.0	40	40	30	60
Temperature	°C	NA	3.0	3.47	3.22	4.19	2.83	3.9	6.40	3.54	5.42	2.85
Spec Cond	µS/cm	NA	47.0	61	84	50	0.074	65.0	60	108	69	0.097
pH	NA	NA	6.8	5.74	5.79	5.49	5.63	6.1	5.63	5.79	5.92	5.75
ORP	mV	NA	202.1	202.80	197.20	222.7	230.1	234.2	53.70	204.60	129.5	165.3
DO	mg/L	NA	11.5	12.63	12.40	13.99	13.47	10.1	10.99	12.45	14.82	13.14
Methane	µg/L	NA	0.4	ND (0.29)	ND (0.29)	ND (0.37)	ND (0.37)	0.8	ND (0.29)	ND (0.29)	ND (0.37)	ND (0.37)

Notes:

*Well was decommissioned in 2012

< = less than

°C = degrees Celsius

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

DO = dissolved oxygen

[D]sample is a duplicate of the previous sample

J = result is an estimate

mg/L = milligrams per liter

MNA = monitored natural attenuation

MOC = Main Operations Complex

mV = millivolts

NA = not applicable

ND = non-detect; limit of detection in parentheses

NM = not measured

NR = not reported

ORP = oxidation-reduction potential

pH = potential hydrogen

Spec Cond = specific conductance

Table H2 MOC MNA Groundwater Parameters 2010-2014 (continued)

	Well ID		20MW1					14MW07	MW88-10					
	Sample ID		20WA01	WA04	WA03	13NCMOCGW-05	14NCMOCGW04	14NCMOCGW07	19WA02	WA10	WA05	13NCMOCGW-06	13NCMOCGW-07[D]	14NCMOCGW05
	Date		8/4/10	7/17/11	7/9/12	7/20/2013	8/21/2014	8/21/2014	8/15/10	7/18/11	7/9/12	7/21/13	7/21/13	8/21/14
Analyte	Units	Method Detection Limit						low recovery/high turbidity						
Ferrous Iron	mg/L	0.01	NR	<0.01	<0.03	ND	---	0.25	<0.01	0.02	0.49	1.04	1.08	---
Manganese	mg/L	0.2	NR	<0.2	0.3	0.2	0	0.3	1.0	0.40	1.00	2.9	1.1	0.2
Sulfate	mg/L	2	NR	24.00	16.00	22	6	1	6.0	8.00	16.00	8	8	5
Nitrate	mg/L	0.4	NR	1.30	0.23	0.26	0.2	<0.01	0.1	0.90	0.56	0.03	0.03	0.02
Alkalinity	mg/L	0	NR	80	40	45	80	40	40.0	40	40	70	30	40
Temperature	°C	NA	3.6	2.33	3.39	3.58	2.37	6.49	2.9	4.43	1.61	3.64	2.66	2.86
Spec Cond	µS/cm	NA	63.0	82	143	83	0.131	0.275	65.0	61	124	75	68	0.101
pH	NA	NA	6.3	5.89	5.76	5.65	5.68	6.90	7.6	5.78	5.74	5.82	5.31	5.55
ORP	mV	NA	101.4	125.80	231.50	62.4	180.0	-385.4	146.0	47.7	146.6	129.6	114.3	148.7
DO	mg/L	NA	4.0	10.78	9.04	10.45	11.85	4.52	0.8	1.55	0.66	0.37	0.37	1.63
Methane	µg/L	NA	ND (0.19)	ND (0.29)	ND (0.29)	ND (0.37)	ND (0.37)	30	0.4	1.8	32.0	54	61	14

Notes:

*Well was decommissioned in 2012

< = less than

°C = degrees Celsius

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

DO = dissolved oxygen

[D]sample is a duplicate of the previous samp

J = result is an estimate

mg/L = milligrams per liter

MNA = monitored natural attenuation

MOC = Main Operations Complex

mV = millivolts

NA = not applicable

ND = non-detect; limit of detection in parei

NM = not measured

NR = not reported

ORP = oxidation-reduction potential

pH = potential hydrogen

Spec Cond = specific conductance

Table H2 MOC MNA Groundwater Parameters 2010-2014 (continued)

	Well ID		MW88-1						MW88-3	MW10-1				
	Sample ID		19WA01	WA09	WA06	13NCMOCGW-08	14NCMOCGW08	14NCMOCGW09	14NCMOCGW10	10WA01	WA01	WA07	13NCMOCGW-04	14NCMOCGW17
	Date		8/4/10	7/18/11	7/9/12	7/21/13	8/22/14	8/22/14	8/22/2014	8/14/10	7/15/11	7/10/12	7/20/2013	8/23/2014
Analyte	Units	Method Detection Limit												
Ferrous Iron	mg/L	0.01	<0.01	0.04	< 0.03	0.03	0.03	0.04	0.11	<0.01	0.09	<0.03	0.23	0.00
Manganese	mg/L	0.2	0.3	0.30	<0.2	0.4	0.0	0.0	0.0	<0.2	0.10	<0.2	ND	0.1
Sulfate	mg/L	2	7	8.00	8.00	9	3	3	4	3.0	4.00	3.00	3	3
Nitrate	mg/L	0.4	0.3	1.50	0.20	0.29	0.07	0.12	0.03	0.3	0.40	<0.01	0.11	0.07
Alkalinity	mg/L	0	40	40	40	40	40	70	70	0.0	40	40	50	NM
Temperature	°C	NA	2.85	2.30	3.27	2.66	2.18	2.18	2.89	6.6	6.03	4.42	3.79	6.62
Spec Cond	µS/cm	NA	68	60	111	68	0.089	0.089	0.087	63.0	56	0	78	0.109
pH	NA	NA	5.59	5.75	5.52	5.31	5.38	5.38	5.36	5.6	5.45	5.37	5.43	5.35
ORP	mV	NA	190.1	70.90	225.90	114.3	231.6	231.6	175.5	202.5	85.50	251.60	68.9	185.1
DO	mg/L	NA	1.26	2.09	1.58	2.23	6.43	6.43	4.73	5.6	4.74	2.93	1.26	2.83
Methane	µg/L	NA	0.34	0.44 J	0.37J	ND (0.37)	ND (0.37)	ND (0.37)	1.8 J	0.5	0.29 J	0.85	26	1 J

Notes:

*Well was decommissioned in 2012

< = less than

°C = degrees Celsius

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

DO = dissolved oxygen

[D]sample is a duplicate of the previous samp

J = result is an estimate

mg/L = milligrams per liter

MNA = monitored natural attenuation

MOC = Main Operations Complex

mV = millivolts

NA = not applicable

ND = non-detect; limit of detection in parei

NM = not measured

NR = not reported

ORP = oxidation-reduction potential

pH = potential hydrogen

Spec Cond = specific conductance

Table H2 MOC MNA Groundwater Parameters 2010-2014 (continued)

	Well ID		14MW06	17MW1					14MW01	14MW02	14MW02	14MW03
	Sample ID		14NCMOCGW16	17WA01	WA05	WA04	13NCMOCGW-03	14NCMOCGW03	14NCMOCGW06	14NCMOCGW12	14NCMOCGW11	14NCMOCGW13
	Date		8/23/2014	8/4/10	7/17/11	7/9/12	7/20/2013	8/20/2014	8/21/14	8/22/2014	8/22/2014	8/23/2014
Analyte	Units	Method Detection Limit										low recovery/high turbidity
Ferrous Iron	mg/L	0.01	1.75	0.01	0.06	<0.03	0.01	---	0.85	0.86	1.25	0.89
Manganese	mg/L	0.2	1.6	<0.2	0.10	<0.2	0.3	0	0	0.9	0.9	0.9
Sulfate	mg/L	2	3	16	15.00	16.00	20	5	7	3	3	8
Nitrate	mg/L	0.4	0.00	0.2	0.70	0.19	0.11	0.11	0	0.00	0.00	---
Alkalinity	mg/L	0	NM	0	40	40	37	60	80	80	100	180
Temperature	°C	NA	2.57	3.09	2.73	2.74	3.45	2.35	2.89	1.38	1.38	3.41
Spec Cond	µS/cm	NA	1.429	68	67	108	65	0.096	0.148	0.183	0.183	0.481
pH	NA	NA	6.21	5.76	5.78	5.45	5.45	5.65	6.51	6.39	6.39	6.65
ORP	mV	NA	-68.5	160.8	237.10	205.50	149.2	166.6	-191.9	-103.8	-103.8	-404.9
DO	mg/L	NA	0.32	7.32	4.47	9.22	9.77	11.15	3.78	1.17	1.17	8.03
Methane	µg/L	NA	160	ND (0.19)	ND (0.29)	ND (0.29)	ND (0.37)	ND (0.37)	83	200	230	47

Notes:

*Well was decommissioned in 2012

< = less than

°C = degrees Celsius

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

DO = dissolved oxygen

[D]sample is a duplicate of the previous samp

J = result is an estimate

mg/L = milligrams per liter

MNA = monitored natural attenuation

MOC = Main Operations Complex

mV = millivolts

NA = not applicable

ND = non-detect; limit of detection in parei

NM = not measured

NR = not reported

ORP = oxidation-reduction potential

pH = potential hydrogen

Spec Cond = specific conductance

Table H2 MOC MNA Groundwater Parameters 2010-2014 (continued)

		Well ID	14MW04	14MW05	MW88-4*					MW88-5*			
		Sample ID	14NCMOCGW14	14NCMOCGW15	27WA01	27WA02	WA08	WA08	WA09[D]	27WA03	WA06	WA07[D]	WA10
		Date	8/23/2014	8/23/2014	8/3/10	8/3/10	7/17/11	7/10/12	7/10/12	8/15/10	7/17/11	7/17/11	7/10/12
Analyte	Units	Method Detection Limit											
Ferrous Iron	mg/L	0.01	0.81	0.95	21.40	20.00	3.30	12.25	10.80	45.50	3.30	3.30	11.45
Manganese	mg/L	0.2	0.6	0.7	0.3	0.5	0.40	1.10	1.00	<0.2	0.30	0.70	1.30
Sulfate	mg/L	2	12	6	4	1	1.00	3.00	3.00	6	46.00	42.00	18.00
Nitrate	mg/L	0.4	0.00	0.00	2.0	<0.4	0.20	<0.01	0.19	0.3	0.90	0.50	0.02
Alkalinity	mg/L	0	140	NM	120	120	180	80	80	80	180	180	80
Temperature	°C	NA	5.90	3.61	3.28	3.28	1.16	2.01	2.01	2.21	2.59	2.59	2.63
Spec Cond	µS/cm	NA	819 (conductivity)	0.219	190	190	173	230	230	221	241	241	262
pH	NA	NA	5.92	6.23	6.93	6.93	6.80	6.41	6.41	8.25	6.64	6.64	6.18
ORP	mV	NA	27.3	-39.3	-72.1	-72.1	-86.20	-51.70	-51.70	-69.3	-100.30	-100.30	-25.40
DO	mg/L	NA	0.33	3.50	0.68	0.68	0.27	0.35	0.35	0.81	0.58	0.58	0.49
Methane	µg/L	NA	25	33	1900	2100	2100	2300	2000	99	630	620	360

Notes:

*Well was decommissioned in 2012

< = less than

°C = degrees Celsius

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

DO = dissolved oxygen

[D]sample is a duplicate of the previous samp

J = result is an estimate

mg/L = milligrams per liter

MNA = monitored natural attenuation

MOC = Main Operations Complex

mV = millivolts

NA = not applicable

ND = non-detect; limit of detection in parei

NM = not measured

NR = not reported

ORP = oxidation-reduction potential

pH = potential hydrogen

Spec Cond = specific conductance

Table H3 MOC Groundwater Sample Results

				Sample ID	14NCMOCGW01	14NCMOCGW02	14NCMOCGW03	14NCMOCGW04	14NCMOCGW05	14NCMOCGW06	14NCMOCGW07	14NCMOCGW08	14NCMOCGW09[D]	14NCMOCGW10
				Laboratory ID	580-45122-1	580-45122-2	580-45122-3	580-45122-4	580-45122-5	580-45122-6	580-45122-7	580-45122-8	580-45122-9	580-45122-10
				Location ID	26MW1	22MW2	17MW1	20MW1	88MW10	14MW01	14MW07	MW88-1	MW88-1	MW88-3
				Collection Date	8/20/2014	8/20/2014	8/20/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/22/2014	8/22/2014	8/22/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**										
6020	Arsenic (Total)	mg/L	0.01[2]	NA	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.0061	0.0092	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Barium (Total)	mg/L	NA	2.0[1]	0.0043 J	0.0068	0.018	0.020	0.015	0.058	0.25	0.012	0.011	0.021
6020	Cadmium (Total)	mg/L	NA	0.005[1]	ND (0.00025)	0.00022 J	0.00018 J	0.00017 J	0.00054 J	0.00030 J	0.00063 J	0.00026 J	ND (0.00025)	0.00023 J
6020	Chromium (Total)	mg/L	NA	0.1[1]	ND (0.0015)	ND (0.0015)	ND (0.0015)	0.0014 J	ND (0.0015)	0.0058	0.085	0.0021	0.0017 J	ND (0.0015)
6020	Lead (Total)	mg/L	0.015[2]	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.00045 J	0.0011 J	0.011	**0.13**	0.0030	0.0027	0.0010 J
6020	Nickel (Total)	mg/L	NA	0.1[1]	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	0.0033 J	0.0047 J	0.063	ND (0.0025)	ND (0.0025)	0.0036 J
6020	Selenium (Total)	mg/L	NA	0.5[1]	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Silver (Total)	mg/L	NA	0.1[1]	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.00026 J	ND (0.00025)	ND (0.00025)	ND (0.00025)
6020	Vanadium (Total)	mg/L	NA	0.26[1]	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0051 J	ND (0.0050)	0.010	0.051	ND (0.0050)	ND (0.0050)	ND (0.0050)
6020	Zinc (Total)	mg/L	NA	5.0[1]	ND (0.010)	ND (0.010)	0.018 J	0.015 J	0.028	0.022	0.18	0.017 J	0.016 J	0.039
7470A	Mercury (Total)	mg/L	NA	0.002[1]	ND (0.00010)	ND (0.00010)	0.000045 J B	0.000054 J B	0.000052 J B	0.00031 B	0.00055 B	ND (0.00010)	0.000060 J B	0.000071 J B
7470	Mercury (Diss)	mg/L	NA	NA	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.000042 J	0.00033	0.000056 J	0.000045 J	0.000045 J	0.000051 J
6020	Arsenic (Diss)	mg/L	NA	NA	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.0041 J	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Barium (Diss)	mg/L	NA	NA	0.0042 J	0.0061	0.012	0.017	0.013	0.017	0.011	0.0054 J	0.0059 J	0.016
6020	Cadmium (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.00019 J	0.00047 J	ND (0.00025)	0.00018 J	ND (0.00025)	0.00018 J	0.00021 J
6020	Chromium (Diss)	mg/L	NA	NA	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)	0.0015 J	ND (0.0015)	ND (0.0015)	ND (0.0015)
6020	Lead (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.00020 J	0.00056 J	0.0015 J	0.00023 J	0.00025 J	ND (0.00025)
6020	Nickel (Diss)	mg/L	NA	NA	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	0.0027 J	ND (0.0025)	0.0094 J	ND (0.0025)	ND (0.0025)	0.0027 J
6020	Selenium (Diss)	mg/L	NA	NA	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Silver (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)
6020	Vanadium (Diss)	mg/L	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
6020	Zinc (Diss)	mg/L	NA	NA	ND (0.010)	ND (0.010)	0.016 J	0.016 J	0.026	ND (0.010)	ND (0.010)	0.011 J	0.013 J	0.031
8015C	Ethylene glycol	mg/L	NA	73[1]	--	--	--	--	--	--	--	--	--	--
8015C	Propylene glycol	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1016	mg/L	NA	0.0005[1]	ND (0.000049)	ND (0.00005)	ND (0.000049)	ND (0.000052)	ND (0.000049)	ND (0.000082)	ND (0.000083)	ND (0.000053)	ND (0.000051)	ND (0.000049)
8082	PCB-1221	mg/L	NA	0.0005[1]	ND (0.000098)	ND (0.0001)	ND (0.000098)	ND (0.0001)	ND (0.000098)	ND (0.000082)	ND (0.000083)	ND (0.00011)	ND (0.0001)	ND (0.000098)
8082	PCB-1232	mg/L	NA	0.0005[1]	ND (0.000049)	ND (0.00005)	ND (0.000049)	ND (0.000052)	ND (0.000049)	ND (0.000082)	ND (0.000083)	ND (0.000053)	ND (0.000051)	ND (0.000049)
8082	PCB-1242	mg/L	NA	0.0005[1]	ND (0.000049)	ND (0.00005)	ND (0.000049)	ND (0.000052)	ND (0.000049)	ND (0.000082)	ND (0.000083)	ND (0.000053)	ND (0.000051)	ND (0.000049)
8082	PCB-1248	mg/L	NA	0.0005[1]	ND (0.000098)	ND (0.00010)	ND (0.000098)	ND (0.0001)	ND (0.000098)	ND (0.000082)	ND (0.000083)	ND (0.00011)	ND (0.0001)	ND (0.098)
8082	PCB-1254	mg/L	NA	0.0005[1]	ND (0.000049)	ND (0.00005)	ND (0.000049)	ND (0.000052)	ND (0.000049)	ND (0.000082)	ND (0.000083)	ND (0.000053)	ND (0.000051)	ND (0.000049)
8082	PCB-1260	mg/L	NA	0.0005[1]	ND (0.000049)	ND (0.00005)	ND (0.000049)	ND (0.000052)	ND (0.000049)	ND (0.000082)	ND (0.000083)	ND (0.000053)	ND (0.000051)	ND (0.000049)
8260B	Benzene	mg/L	0.005[2]	NA	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	0.00072 J	ND (0.0004)	ND (0.0004)	ND (0.0004)
8260B	Ethylbenzene	mg/L	0.7[2]	NA	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	0.00013 J	ND (0.0004)	ND (0.0004)	ND (0.0004)
8260B	m-Xylene & p-Xylene	mg/L	NA	NA	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	0.00016 J	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)
8260B	o-Xylene	mg/L	NA	NA	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)
8260B	Xylenes (Total)	mg/L	NA	10[1]	ND (0.0008)	ND (0.0008)	ND (0.0008)	ND (0.0008)	ND (0.0008)	0.00016 J	ND (0.0008)	ND (0.0008)	ND (0.0008)	ND (0.0008)
8260B	Toluene	mg/L	NA	1[1]	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	ND (0.0004)	0.00039 J	ND (0.0004)	ND (0.0004)	ND (0.0004)
8260C	1,1,1,2-Tetrachloroethane	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	1,1,1-Trichloroethane	mg/L	NA	0.2[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,1,2,2-Tetrachloroethane	mg/L	NA	0.0043[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,1,2-Trichloroethane	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,1-Dichloroethane	mg/L	NA	7.3[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,1-Dichloroethene	mg/L	NA	0.007[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,1-Dichloropropene	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	1,2,3-Trichlorobenzene	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	1,2,3-Trichloropropane	mg/L	NA	0.00012[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,2,4-Trichlorobenzene	mg/L	NA	0.070[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,2,4-Trimethylbenzene	mg/L	NA	1.8[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,2-Dibromo-3-Chloropropane	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	1,2-Dibromoethane	mg/L	NA	0.00005[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,2-Dichlorobenzene	mg/L	NA	0.6[1]	--	--	--	--	--	--	--	--	--	--

Table H3 MOC Groundwater Sample Results (continued)

				Sample ID	14NCMOCGW11	14NCMOCGW12[D]	14NCMOCGW13	14NCMOCGW14	14NCMOCGW15	14NCMOCGW16	14NCMOCGW17	Trip Blank 082414
				Laboratory ID	580-45122-11	580-45122-12	580-45122-13	580-45122-14	580-45122-15	580-45122-16	580-45122-17	580-45122-18
				Location ID	14MW02	14MW02	14MW03	14MW04	14MW05	14MW06	MW10-1	Trip Blank 082014
				Collection Date	8/22/2014	8/22/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/20/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**								
6020	Arsenic (Total)	mg/L	0.01[2]	NA	0.0058	0.0056	0.0055	ND (0.0040)	0.0042 J	0.0068	ND (0.0040)	--
6020	Barium (Total)	mg/L	NA	2.0[1]	0.047	0.046	0.12	0.087	0.040	0.068	0.034	--
6020	Cadmium (Total)	mg/L	NA	0.005[1]	ND (0.00025)	ND (0.00025)	0.00054 J	0.00029 J	ND (0.00025)	ND (0.00025)	0.00022 J	--
6020	Chromium (Total)	mg/L	NA	0.1[1]	0.0032	0.0031	0.045	0.0046	0.0039	0.0022	0.0073	--
6020	Lead (Total)	mg/L	0.015[2]	NA	0.0054	0.0060	**0.062**	0.0064	0.010	0.0027	0.0011 J	--
6020	Nickel (Total)	mg/L	NA	0.1[1]	0.0021 J	0.0020 J	0.019	0.0053 J	0.0038 J	0.0025 J	0.0067 J	--
6020	Selenium (Total)	mg/L	NA	0.5[1]	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	--
6020	Silver (Total)	mg/L	NA	0.1[1]	ND (0.00025)	ND (0.00025)	0.00018 J	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	--
6020	Vanadium (Total)	mg/L	NA	0.26[1]	0.0063 J	0.0066 J	0.029	0.0083 J	0.0076 J	0.0056 J	ND (0.0050)	--
6020	Zinc (Total)	mg/L	NA	5.0[1]	ND (0.010)	0.0096 J	0.12	0.023	0.019 J	0.0095 J	0.029	--
7470A	Mercury (Total)	mg/L	NA	0.002[1]	0.00034 B	0.00018 J B	0.00021 B	0.00015 J B	0.00016 J B	0.00013 J B	0.000055 J B	--
7470	Mercury (Diss)	mg/L	NA	NA	0.00031	0.00020	0.000092 J	0.00016 J	0.00014 J	0.00012 J	ND (0.00010)	--
6020	Arsenic (Diss)	mg/L	NA	NA	0.0043 J	0.0046 J	ND (0.0040)	ND (0.0040)	ND (0.0040)	0.0062	ND (0.0040)	--
6020	Barium (Diss)	mg/L	NA	NA	0.025	0.025	0.013	0.049	0.019	0.044	0.021	--
6020	Cadmium (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.00021 J	ND (0.00025)	ND (0.00025)	0.00019 J	--
6020	Chromium (Diss)	mg/L	NA	NA	ND (0.0015)	ND (0.0015)	ND (0.0015)	0.0015 J	ND (0.0015)	ND (0.0015)	0.0015 J	--
6020	Lead (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	0.0014 J	0.00029 J	ND (0.00025)	ND (0.00025)	--
6020	Nickel (Diss)	mg/L	NA	NA	ND (0.0025)	ND (0.0025)	0.0033 J	0.0034 J	0.0022 J	ND (0.0025)	0.0046 J	--
6020	Selenium (Diss)	mg/L	NA	NA	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	ND (0.0040)	--
6020	Silver (Diss)	mg/L	NA	NA	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00025)	--
6020	Vanadium (Diss)	mg/L	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0054 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	--
6020	Zinc (Diss)	mg/L	NA	NA	ND (0.010)	ND (0.010)	0.018 J	0.014 J	ND (0.010)	ND (0.010)	0.029	--
8015C	Ethylene glycol	mg/L	NA	73[1]	--	--	--	--	--	--	ND (2.5)	--
8015C	Propylene glycol	mg/L	NA	NA	--	--	--	--	--	--	ND (2.5)	--
8082	PCB-1016	mg/L	NA	0.0005[1]	ND (0.000048)	ND (0.000048)	ND (0.050)	ND (0.000049)	ND (0.00005)	ND (0.00005)	ND (0.084)	--
8082	PCB-1221	mg/L	NA	0.0005[1]	ND (0.095)	ND (0.000096)	ND (0.10)	ND (0.000098)	ND (0.10)	ND (0.10)	ND (0.084)	--
8082	PCB-1232	mg/L	NA	0.0005[1]	ND (0.000048)	ND (0.000048)	ND (0.050)	ND (0.000049)	ND (0.00005)	ND (0.00005)	ND (0.084)	--
8082	PCB-1242	mg/L	NA	0.0005[1]	ND (0.000048)	ND (0.000048)	ND (0.050)	ND (0.000049)	ND (0.00005)	ND (0.00005)	ND (0.084)	--
8082	PCB-1248	mg/L	NA	0.0005[1]	ND (0.095)	ND (0.000096)	ND (0.10)	ND (0.098)	ND (0.10)	ND (0.10)	ND (0.084)	--
8082	PCB-1254	mg/L	NA	0.0005[1]	ND (0.000048)	ND (0.000048)	ND (0.050)	0.000093 J	ND (0.00005)	ND (0.00005)	ND (0.084)	--
8082	PCB-1260	mg/L	NA	0.0005[1]	ND (0.000048)	ND (0.000048)	ND (0.050)	ND (0.000049)	ND (0.00005)	ND (0.00005)	ND (0.084)	--
8260B	Benzene	mg/L	0.005[2]	NA	0.00014 J	ND (0.0004)	0.001	ND (0.0004)	ND (0.002)	0.00070 J	--	ND (0.0004)
8260B	Ethylbenzene	mg/L	0.7[2]	NA	0.0029	0.0027	0.0078	0.00044 J	0.015	0.0099	--	ND (0.0004)
8260B	m-Xylene & p-Xylene	mg/L	NA	NA	0.0025	0.0023	0.0015 J	0.00051 J	0.0097 J	0.0068 J	--	ND (0.0004)
8260B	o-Xylene	mg/L	NA	NA	0.00017 J	ND (0.0004)	0.00016 J	ND (0.0004)	0.00066 J	ND (0.002)	--	ND (0.0004)
8260B	Xylenes (Total)	mg/L	NA	10[1]	0.00267 J	0.0023	0.00166 J	0.00051 J	0.0106 J	0.0068 J	--	ND (0.0008)
8260B	Toluene	mg/L	NA	1[1]	ND (0.0004)	ND (0.0004)	0.00091 J	ND (0.0004)	ND (0.002)	ND (0.002)	--	ND (0.0004)
8260C	1,1,1,2-Tetrachloroethane	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1,1-Trichloroethane	mg/L	NA	0.2[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1,2,2-Tetrachloroethane	mg/L	NA	0.0043[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1,2-Trichloroethane	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1-Dichloroethane	mg/L	NA	7.3[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1-Dichloroethene	mg/L	NA	0.007[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,1-Dichloropropene	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,2,3-Trichlorobenzene	mg/L	NA	NA	--	--	--	--	--	--	0.00028 J B	0.00075 J B
8260C	1,2,3-Trichloropropane	mg/L	NA	0.00012[1]	--	--	--	--	--	--	**ND (0.001)**	**ND (0.001)**
8260C	1,2,4-Trichlorobenzene	mg/L	NA	0.070[1]	--	--	--	--	--	--	ND (0.0004)	0.00058 J B
8260C	1,2,4-Trimethylbenzene	mg/L	NA	1.8[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,2-Dibromo-3-Chloropropane	mg/L	NA	NA	--	--	--	--	--	--	ND (0.001)	ND (0.001)
8260C	1,2-Dibromoethane	mg/L	NA	0.00005[1]	--	--	--	--	--	--	**ND (0.0004)**	**ND (0.0004)**
8260C	1,2-Dichlorobenzene	mg/L	NA	0.6[1]	--	--	--	--	--	--	ND (0.0004)	0.00018 J

Table H3 MOC Groundwater Sample Results (continued)

				Sample ID	14NCMOCGW01	14NCMOCGW02	14NCMOCGW03	14NCMOCGW04	14NCMOCGW05	14NCMOCGW06	14NCMOCGW07	14NCMOCGW08	14NCMOCGW09[D]	14NCMOCGW10
				Laboratory ID	580-45122-1	580-45122-2	580-45122-3	580-45122-4	580-45122-5	580-45122-6	580-45122-7	580-45122-8	580-45122-9	580-45122-10
				Location ID	26MW1	22MW2	17MW1	20MW1	88MW10	14MW01	14MW07	MW88-1	MW88-1	MW88-3
				Collection Date	8/20/2014	8/20/2014	8/20/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/22/2014	8/22/2014	8/22/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**										
8260C	1,2-Dichloroethane	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,2-Dichloropropane	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,3,5-Trimethylbenzene	mg/L	NA	1.1[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,3-Dichlorobenzene	mg/L	NA	3.3[1]	--	--	--	--	--	--	--	--	--	--
8260C	1,3-Dichloropropane	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	1,4-Dichlorobenzene	mg/L	NA	0.075[1]	--	--	--	--	--	--	--	--	--	--
8260C	2,2-Dichloropropane	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	2-Butanone (MEK)	mg/L	NS	22[1]	--	--	--	--	--	--	--	--	--	--
8260C	2-Chlorotoluene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	2-Hexanone	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	4-Chlorotoluene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	4-Methyl-2-pentanone (MIBK)	mg/L	NA	2.9[1]	--	--	--	--	--	--	--	--	--	--
8260C	Acetone	mg/L	NA	0.033[1]	--	--	--	--	--	--	--	--	--	--
8260C	Benzene	mg/L	0.005[2]	NA	--	--	--	--	--	--	--	--	--	--
8260C	Bromobenzene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	Bromochloromethane	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	Bromodichloromethane	mg/L	NA	0.014[1]	--	--	--	--	--	--	--	--	--	--
8260C	Bromoform	mg/L	NA	0.110[1]	--	--	--	--	--	--	--	--	--	--
8260C	Bromomethane	mg/L	NA	0.370[1]	--	--	--	--	--	--	--	--	--	--
8260C	Carbon disulfide	mg/L	NA	3.7[1]	--	--	--	--	--	--	--	--	--	--
8260C	Carbon tetrachloride	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	Chlorobenzene	mg/L	NA	0.1[1]	--	--	--	--	--	--	--	--	--	--
8260C	Chlorodibromomethane	mg/L	NA	0.01[1]	--	--	--	--	--	--	--	--	--	--
8260C	Chloroethane	mg/L	NA	0.290[1]	--	--	--	--	--	--	--	--	--	--
8260C	Chloroform	mg/L	NA	0.140[1]	--	--	--	--	--	--	--	--	--	--
8260C	Chloromethane	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	cis-1,2-Dichloroethene	mg/L	NA	0.070[1]	--	--	--	--	--	--	--	--	--	--
8260C	cis-1,3-Dichloropropene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	Dibromomethane	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	Dichlorodifluoromethane	mg/L	NA	7.3[1]	--	--	--	--	--	--	--	--	--	--
8260C	Ethylbenzene	mg/L	0.7[2]	NA	--	--	--	--	--	--	--	--	--	--
8260C	Hexachlorobutadiene	mg/L	NA	0.007[1]	--	--	--	--	--	--	--	--	--	--
8260C	Isopropylbenzene	mg/L	NA	3.7[1]	--	--	--	--	--	--	--	--	--	--
8260C	m,p-Xylene	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	o-Xylene	mg/L	NA	NA	--	--	--	--	--	--	--	--	--	--
8260C	Xylenes (Total)	mg/L	NA	10[1]	--	--	--	--	--	--	--	--	--	--
8260C	Methyl tert-butyl ether	mg/L	NA	0.470[1]	--	--	--	--	--	--	--	--	--	--
8260C	Methylene Chloride	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	Naphthalene	mg/L	NA	0.730[1]	--	--	--	--	--	--	--	--	--	--
8260C	n-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	--	--	--	--
8260C	N-Propylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	--	--	--	--
8260C	p-Isopropyltoluene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	sec-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	--	--	--	--
8260C	Styrene	mg/L	NA	0.1[1]	--	--	--	--	--	--	--	--	--	--

Table H3 MOC Groundwater Sample Results (continued)

				Sample ID	14NCMOCGW11	14NCMOCGW12[D]	14NCMOCGW13	14NCMOCGW14	14NCMOCGW15	14NCMOCGW16	14NCMOCGW17	Trip Blank 082414
				Laboratory ID	580-45122-11	580-45122-12	580-45122-13	580-45122-14	580-45122-15	580-45122-16	580-45122-17	580-45122-18
				Location ID	14MW02	14MW02	14MW03	14MW04	14MW05	14MW06	MW10-1	Trip Blank 082014
				Collection Date	8/22/2014	8/22/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/20/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**								
8260C	1,2-Dichloroethane	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,2-Dichloropropane	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,3,5-Trimethylbenzene	mg/L	NA	1.1[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,3-Dichlorobenzene	mg/L	NA	3.3[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,3-Dichloropropane	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	1,4-Dichlorobenzene	mg/L	NA	0.075[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	2,2-Dichloropropane	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	2-Butanone (MEK)	mg/L	NS	22[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	2-Chlorotoluene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	2-Hexanone	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0016)	ND (0.0016)
8260C	4-Chlorotoluene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	4-Methyl-2-pentanone (MIBK)	mg/L	NA	2.9[1]	--	--	--	--	--	--	ND (0.0016)	ND (0.0016)
8260C	Acetone	mg/L	NA	0.033[1]	--	--	--	--	--	--	ND (0.01)	ND (0.01)
8260C	Benzene	mg/L	0.005[2]	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Bromobenzene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Bromochloromethane	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Bromodichloromethane	mg/L	NA	0.014[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Bromoform	mg/L	NA	0.110[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Bromomethane	mg/L	NA	0.370[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Carbon disulfide	mg/L	NA	3.7[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Carbon tetrachloride	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Chlorobenzene	mg/L	NA	0.1[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Chlorodibromomethane	mg/L	NA	0.01[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Chloroethane	mg/L	NA	0.290[1]	--	--	--	--	--	--	ND (0.001)	ND (0.001)
8260C	Chloroform	mg/L	NA	0.140[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Chloromethane	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	cis-1,2-Dichloroethene	mg/L	NA	0.070[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	cis-1,3-Dichloropropene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Dibromomethane	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Dichlorodifluoromethane	mg/L	NA	7.3[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Ethylbenzene	mg/L	0.7[2]	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Hexachlorobutadiene	mg/L	NA	0.007[1]	--	--	--	--	--	--	ND (0.0004)	0.00039 J
8260C	Isopropylbenzene	mg/L	NA	3.7[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	m,p-Xylene	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	o-Xylene	mg/L	NA	NA	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Xylenes (Total)	mg/L	NA	10[1]	--	--	--	--	--	--	ND (0.0008)	ND (0.0008)
8260C	Methyl tert-butyl ether	mg/L	NA	0.470[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Methylene Chloride	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0025)	ND (0.0025)
8260C	Naphthalene	mg/L	NA	0.730[1]	--	--	--	--	--	--	0.00033 J B	0.00077 J B
8260C	n-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	ND (0.001)	ND (0.001)
8260C	N-Propylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	p-Isopropyltoluene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	0.00014 J
8260C	sec-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Styrene	mg/L	NA	0.1[1]	--	--	--	--	--	--	ND (0.001)	ND (0.001)

Table H3 MOC Groundwater Sample Results (continued)

				Sample ID	14NCMOCGW01	14NCMOCGW02	14NCMOCGW03	14NCMOCGW04	14NCMOCGW05	14NCMOCGW06	14NCMOCGW07	14NCMOCGW08	14NCMOCGW09[D]	14NCMOCGW10
				Laboratory ID	580-45122-1	580-45122-2	580-45122-3	580-45122-4	580-45122-5	580-45122-6	580-45122-7	580-45122-8	580-45122-9	580-45122-10
				Location ID	26MW1	22MW2	17MW1	20MW1	88MW10	14MW01	14MW07	MW88-1	MW88-1	MW88-3
				Collection Date	8/20/2014	8/20/2014	8/20/2014	8/21/2014	8/21/2014	8/21/2014	8/21/2014	8/22/2014	8/22/2014	8/22/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**										
8260C	tert-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	--	--	--	--
8260C	Tetrachloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	Toluene	mg/L	NA	1.0[1]	--	--	--	--	--	--	--	--	--	--
8260C	trans-1,2-Dichloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	trans-1,3-Dichloropropene	mg/L	NS	NS	--	--	--	--	--	--	--	--	--	--
8260C	Trichloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	--	--	--	--
8260C	Trichlorofluoromethane	mg/L	NA	11[1]	--	--	--	--	--	--	--	--	--	--
8260C	Vinyl chloride	mg/L	NA	0.002[1]	--	--	--	--	--	--	--	--	--	--
8270C SIM	1-Methylnaphthalene	mg/L	NA	150[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.0015	0.0000089 J	0.000012 J	ND (0.000015)	0.058
8270C SIM	2-Methylnaphthalene	mg/L	NA	150[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.0007	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.000019 J
8270C SIM	Acenaphthene	mg/L	NA	2200[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.00031	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Acenaphthylene	mg/L	NA	2200[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.00009	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.000007 J
8270C SIM	Anthracene	mg/L	NA	11000[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Benzo[a]anthracene	mg/L	NA	1.2[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Benzo[a]pyrene	mg/L	NA	1.2[1]	ND (0.000016) QL	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Benzo[b]fluoranthene	mg/L	NA	12[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Benzo[g,h,i]perylene	mg/L	NA	0.2[1]	ND (0.000016) QL	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Benzo[k]fluoranthene	mg/L	NA	1100[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Chrysene	mg/L	NA	120[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Dibenz(a,h)anthracene	mg/L	NA	0.12[1]	ND (0.016) QL	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Fluoranthene	mg/L	NA	1500[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Fluorene	mg/L	NA	1500[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	0.00004	0.00048	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/L	NA	1.2[1]	ND (0.000016) QL	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Naphthalene	mg/L	NA	730[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	0.000044	0.0025	0.000011 J	ND (0.000015)	ND (0.000015)	0.000019 J
8270C SIM	Phenanthrene	mg/L	NA	11,000[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	0.000045	0.0000086 J	ND (0.000015)	ND (0.000015)	ND (0.000015)
8270C SIM	Pyrene	mg/L	NA	11,00[1]	ND (0.000016)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000015)
AK101	GRO	mg/L	1.3[2]	NA	ND (0.044)	0.017 J B	ND (0.044)	ND (0.044)	0.021 J B	0.046 J B	0.026 J B	ND (0.044)	ND (0.044)	0.018 J B
AK102	DRO	mg/L	1.5[2]	NA	ND (0.050)	ND (0.049)	0.021 J	0.023 J	0.66	0.51 B	0.15 B	0.26	0.21	0.46
AK103	RRO	mg/L	1.1[2]	NA	ND (0.050)	ND (0.049)	ND (0.049)	ND (0.052)	0.041 J	0.067 J	0.043 J	0.049 J	0.043 J	0.030 J
RSK-175	Methane	mg/L	NS	NS	ND (0.00037)	ND (0.00037)	ND (0.00037)	ND (0.00037)	0.014	0.083	0.03	ND (0.0037)	ND (0.0037)	.0018 J

Notes:

[1] Groundwater Evaluation Criteria from 18AAC75 Section 345, Table C

[2] Cleanup Levels Established in 2009 Decision Document

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

[D] Field Dup-Sample is a field duplicate of preceding sample.

-- = analysis not requested

AK = Alaska Test Method

B = Analyte detected in a QC blank, sample result may have potential high bias

J-Result is an estimate

mg/L= milligrams per liter

NA = Not applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

NS = not specified in the 2009 Decision Document or ADEC regulations

QL = Quality issue with potential low bias

Table H3 MOC Groundwater Sample Results (continued)

				Sample ID	14NCMOCGW11	14NCMOCGW12[D]	14NCMOCGW13	14NCMOCGW14	14NCMOCGW15	14NCMOCGW16	14NCMOCGW17	Trip Blank 082414
				Laboratory ID	580-45122-11	580-45122-12	580-45122-13	580-45122-14	580-45122-15	580-45122-16	580-45122-17	580-45122-18
				Location ID	14MW02	14MW02	14MW03	14MW04	14MW05	14MW06	MW10-1	Trip Blank 082014
				Collection Date	8/22/2014	8/22/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/23/2014	8/20/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[2]**	**Evaluation Criteria[1]**								
8260C	tert-Butylbenzene	mg/L	NA	0.370[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Tetrachloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Toluene	mg/L	NA	1.0[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	trans-1,2-Dichloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	trans-1,3-Dichloropropene	mg/L	NS	NS	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Trichloroethene	mg/L	NA	0.005[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Trichlorofluoromethane	mg/L	NA	11[1]	--	--	--	--	--	--	ND (0.0004)	ND (0.0004)
8260C	Vinyl chloride	mg/L	NA	0.002[1]	--	--	--	--	--	--	ND (0.0004)	0.00022 J
8270C SIM	1-Methylnaphthalene	mg/L	NA	150[1]	0.016	0.016	0.019	0.00028	0.077	0.024	0.000014 J	--
8270C SIM	2-Methylnaphthalene	mg/L	NA	150[1]	0.0046	0.0041	0.019	0.00023	0.055	0.016	0.000012 J	--
8270C SIM	Acenaphthene	mg/L	NA	2200[1]	0.00068	0.00051	0.0014	ND (0.000014)	0.0024	0.00046	ND (0.000015)	--
8270C SIM	Acenaphthylene	mg/L	NA	2200[1]	0.00027	0.00021	0.00026	ND (0.000014)	0.00094	0.000083	ND (0.000015)	--
8270C SIM	Anthracene	mg/L	NA	11000[1]	ND (0.000015)	ND (0.000015)	0.000017 J B	ND (0.000014)	0.000033 B	ND (0.015)	ND (0.000015)	--
8270C SIM	Benzo[a]anthracene	mg/L	NA	1.2[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	--
8270C SIM	Benzo[a]pyrene	mg/L	NA	1.2[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	--
8270C SIM	Benzo[b]fluoranthene	mg/L	NA	12[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	--
8270C SIM	Benzo[g,h,i]perylene	mg/L	NA	0.2[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	0.0000078 J	--
8270C SIM	Benzo[k]fluoranthene	mg/L	NA	1100[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	--
8270C SIM	Chrysene	mg/L	NA	120[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	ND (0.000015)	--
8270C SIM	Dibenz(a,h)anthracene	mg/L	NA	0.12[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	0.0000070 J	--
8270C SIM	Fluoranthene	mg/L	NA	1500[1]	ND (0.000015)	ND (0.000015)	0.000018 J	ND (0.000014)	0.000016 J	ND (0.000015)	0.0000063 J	--
8270C SIM	Fluorene	mg/L	NA	1500[1]	0.0000011	0.001	0.002	0.000083	0.0055	0.00077	ND (0.000015)	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/L	NA	1.2[1]	ND (0.000015)	ND (0.000015)	ND (0.000015)	ND (0.000014)	ND (0.000015)	ND (0.000015)	0.000012 J	--
8270C SIM	Naphthalene	mg/L	NA	730[1]	0.000007	0.007	0.029	0.00014	0.093	0.033	0.000016 J	--
8270C SIM	Phenanthrene	mg/L	NA	11,000[1]	0.000067 B	0.00006 B	0.00022	0.000063 B	0.00008	0.00038	0.0000065 J B	--
8270C SIM	Pyrene	mg/L	NA	11,00[1]	ND (0.000015)	ND (0.000015)	0.000011 J B	0.000025 B	0.000015 J B	0.000013 J B	ND (0.015)	--
AK101	GRO	mg/L	1.3[2]	NA	0.28	0.27	0.19	0.051 B	0.36	0.22	ND (0.044)	0.015 J
AK102	DRO	mg/L	1.5[2]	NA	1.2	1.3	**2.4**	**2.5**	**4.9**	**5.2 QL**	0.80	--
AK103	RRO	mg/L	1.1[2]	NA	0.092 J	0.094 J	0.21	0.54	0.55	0.28	0.37	--
RSK-175	Methane	mg/L	NS	NS	0.23	0.2	0.047	0.025	0.033	0.16	0.001 J	ND (0.00037)

Notes:

[1] Groundwater Evaluation Criteria from 18AAC75 Section 345, Table C

[2] Cleanup Levels Established in 2009 Decision Document

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

[D] Field Dup-Sample is a field duplicate of preceding sample.

-- = analysis not requested

AK = Alaska Test Method

B = Analyte detected in a QC blank, sample result may have potential high bias

J-Result is an estimate

mg/L= milligrams per liter

NA = Not applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

NS = not specified in the 2009 Decision Document or ADEC regulations

QL = Quality issue with potential low bias

Table H4 MOC POL Plume E Soil Sample Results

			Sample ID	14NCMOCESS001	14NCMOCESS002	14NCMOCESS003	14NCMOCESS012[D]	14NCMOCESS004	14NCMOCESS005
			Laboratory ID	580-44718-1	580-44718-2	580-44718-3	580-44718-12	580-44718-4	580-44718-5
			Location ID	14NCE001	14NCE002	14NCE003	14NCE012	14NCE004	14NCE005
			Collection Date	7/29/2014	7/29/2014	7/29/2014	7/29/2014	7/29/2014	7/29/2014
				Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**						
AK102	DRO	mg/Kg	9200[1]	38 B	20 J B	**16000**	**22000**	**20000**	33 B
AK103	RRO	mg/Kg	9200[1]	98	22 J	340 J QL	450 J	630	120

			Sample ID	14NCMOCESS006	14NCMOCESS007	14NCMOCESS008	14NCMOCESS009	14NCMOCESS010	14NCMOCESS011
			Laboratory ID	580-44718-6	580-44718-7	580-44718-8	580-44718-9	580-44718-10	580-44718-11
			Location ID	14NCE006	14NCE007	14NCE008	14NCE009	14NCE010	14NCE011
			Collection Date	7/29/2014	7/29/2014	7/29/2014	7/29/2014	7/29/2014	7/29/2014
				Sidewall	Sidewall	Sidewall	Floor	Floor	Floor
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**						
AK102	DRO	mg/Kg	9200[1]	480	7900	3500	85 B	26 J B	ND (17)
AK103	RRO	mg/Kg	9200[1]	210	**9400**	4500	130	160	ND (17)

			Sample ID	14NCMOCESS013	14NCMOCESS014	14NCMOCESS018[D]	14NCMOCESS015	14NCMOCESS016	14NCMOCESS017
			Laboratory ID	580-44735-1	580-44735-2	580-44735-6	580-44735-3	580-44735-4	580-44735-5
			Location ID	14NCE013	14NCE014	14NCE018	14NCE015	14NCE016	14NCE017
			Collection Date	7/30/2014	7/30/2014	7/30/2014	7/30/2014	7/30/2014	7/30/2014
				Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**						
AK102	DRO	mg/Kg	9200[1]	220	700	570	2600	1000	100
AK103	RRO	mg/Kg	9200[1]	160	62	55	67	26 J	130

Notes:

[1]Cleanup Level Established in 2009 Decision Document

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

[D]Sample is a field duplicate of preceding sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

QH = Quality issue with potential high bias

Table H4 MOC POL Plume E Soil Sample Results (continued)

			Sample ID	14NCMOCESS019	14NCMOCESS020	14NCMOCESS021	14NCMOCESS023	14NCMOCESS022	14NCMOCESS024[D]
			Laboratory ID	580-44766-1	580-44766-2	580-44766-3	580-44766-5	580-44766-4	580-44766-6
			Location ID	14NCE019	14NCE020	14NCE021	14NCE023	14NCE022	14NCE024
			Collection Date	8/1/2014	8/1/2014	8/1/2014	8/1/2014	8/1/2014	8/1/2014
				Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**						
AK102	DRO	mg/Kg	9200[1]	2000	3400	ND (18)	3800	2000 QH	2800
AK103	RRO	mg/Kg	9200[1]	ND (17)	ND (16)	ND (18)	960	120 QH	180

			Sample ID	14NCMOCESS025	14NCMOCESS026	14NCMOCESS027	14NCMOCESS028	14NCMOCESS029
			Laboratory ID	580-44778-1	580-44778-2	580-44778-3	580-44778-4	580-44877-1
			Location ID	14NCE025	14NCE026	14NCE027	14NCE028	14NCE029
			Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/9/2014
				Sidewall	Sidewall	Floor	Floor	Floor
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**					
AK102	DRO	mg/Kg	9200[1]	9.8 J	9.9 J	420	630	23 QL
AK103	RRO	mg/Kg	9200[1]	77	66	49 J	ND (16)	ND (17)

			Sample ID	14NCMOCESS030	14NCMOCESS031[D]
			Laboratory ID	580-44877-2	580-44877-3
			Location ID	14NCE030	14NCE031
			Collection Date	8/9/2014	8/9/2014
				Floor	Floor
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**		
AK102	DRO	mg/Kg	9200[1]	29	36
AK103	RRO	mg/Kg	9200[1]	ND (18)	ND (19)

Notes:

[1]Cleanup Level Established in 2009 Decision Docu

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

[D]Sample is a field duplicate of preceding sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

QH = Quality issue with potential high bias

Table H5 MOC POL Plume C Soil Sample Results

			Sample ID	14NCMOCCSS001	14NCMOCCSS002	14NCMOCCSS015[D]	14NCMOCCSS003	14NCMOCCSS004	14NCMOCCSS005
			Laboratory ID	580-44683-1	580-44683-2	580-44683-15	580-44683-3	580-44683-4	580-44683-5
			Location ID	14NCC001	14NCC002	14NCC015	14NCC003	14NCC004	14NCC005
			Collection Date	7/26/2014	7/26/2014	7/26/2014	7/26/2014	7/26/2014	7/26/2014
				Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**						
AK102	DRO	mg/Kg	9200	**21000 J**	2000	2100	20 J B	510	16 J, B
AK103	RRO	mg/Kg	9200	2400 J, QL	100	42 J	53 J	74	63

			Sample ID	14NCMOCCSS006	14NCMOCCSS007	14NCMOCCSS008	14NCMOCCSS009	14NCMOCCSS010	14NCMOCCSS014[D]
			Laboratory ID	580-44683-6	580-44683-7	580-44683-8	580-44683-9	580-44683-10	580-44683-14
			Location ID	14NCC006	14NCC007	14NCC008	14NCC009	14NCC010	14NCC014
			Collection Date	7/26/2014	7/26/2014	7/26/2014	7/26/2014	7/26/2014	7/26/2014
				Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**						
AK102	DRO	mg/Kg	9200	19 J B	28 B	43 B	19 J, B	6400	6200
AK103	RRO	mg/Kg	9200	74	180	250	36 J	260	230

			Sample ID	14NCMOCCSS011	14NCMOCCSS012	14NCMOCCSS013	14NCMOCCSS016	14NCMOCCSS017
			Laboratory ID	580-44683-11	580-44683-12	580-44683-13	580-44747-1	580-44747-2
			Location ID	14NCC011	14NCC012	14NCC013	14NCC016	14NCC017
			Collection Date	7/26/2014	7/26/2014	7/26/2014	7/30/2014	7/30/2014
				Floor	Floor	Floor	Sidewall	Sidewall
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**					
AK102	DRO	mg/Kg	9200	37 B	36 B	34 J, B	470	4700
AK103	RRO	mg/Kg	9200	78	45 J	110	180	390

Notes:

[1]Cleanup Level Established in 2009 Decision Document

B = Analyte detected in a QC blank, sample result may have potential high bias

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

[D]Sample is a field duplicate of preceding sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

Table H6 MOC POL Plume I Soil Sample Results

			Sample ID	14NCMOCISS001	14NCMOCISS002	14NCMOCISS003[D]	14NCMOCISS004
			Laboratory ID	580-44747-3	580-44747-4	580-44747-5	580-44766-7
			Location ID	14NCI001	14NCI002	14NCI003	14NCI004
			Collection Date	7/30/2014	7/30/2014	7/30/2014	8/1/2014
				Sidewall	Sidewall	Sidewall	Floor
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**				
AK102	DRO	mg/Kg	9200[1]	580	30 B	16 J, B	3000
AK103	RRO	mg/Kg	9200[1]	17 J	ND (17)	ND (16)	21 J

Notes:

[1]Cleanup Level Established in 2009 Decision Document

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels

[D]Sample is a field duplicate of preceding sample.

B = Analyte detected in a QC blank, sample result may have potential high bias

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

Table H7 MOC Surface Water Sample Results

				Sample ID	14NCMOCSW01	14NCMOCSW04[D]	14NCMOCSW02	14NCMOCSW03	14NCMOCSW05	14NCMOCSW08[D]	14NCMOCSW06	14NCMOCSW07	14NCMOCSW09	14NCMOCSW10[D]
				Laboratory ID	580-44676-1	580-44676-4	580-44676-2	580-44676-3	580-44806-1	580-44806-4	580-44806-2	580-44806-3	580-45125-1	580-45125-2
				Location ID	MOCSW01	MOCSW01	MOCSW02	MOCSW03	MOCSW01	MOCSW01	MOCSW02	MOCSW03	MOCSW01	MOCSW01
				Collection Date	7/23/2014	7/23/2014	7/23/2014	7/23/2014	8/3/2014	8/3/2014	8/3/2014	8/3/2014	8/24/2014	8/24/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**	**Evaluation Criteria [2]**	Pre Excavation	Pre Excavation	Pre Excavation	Pre Excavation	Mid Excavation	Mid Excavation	Mid Excavation	Mid Excavation	Post Excavation	Post Excavation
8260B	Benzene	µg/L	NS	5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	0.79 J B	0.82 J, B	0.22 J, B	0.22 J, B	ND (2.0)	ND (2.0)
8260B	Ethylbenzene	µg/L	NS	700	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (0.40)	ND (0.40)	ND (2.0)	ND (2.0)
8260B	Toluene	µg/L	NS	1,000	ND (2.0)	ND (2.0)	1.1 J, QH	0.96 J, QH	ND (2.0)	ND (2.0)	0.82 J, QH	2.7	ND (2.0)	ND (2.0)
8260B	m-Xylene & p-Xylene	µg/L	NS	10,000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (0.40)	0.14 J, B	ND (2.0)	ND (2.0)
8260B	o-Xylene	µg/L	NS	10,000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (0.40)	ND (0.40)	ND (2.0)	ND (2.0)
Total Aromatic Hydrocarbons (TAH) Sum of BTEX		µg/L	10	10	ND (10)	ND (10)	9.1 J, QH	8.96 J, QH	8.79 J, B	8.82 J, B	2.24 J, B, QH	3.86 J, B	ND (10.0)	ND (10.0)
8270C SIM	1-Methylnaphthalene	µg/L	NS	NS	0.13 QL	0.12 QL	0.32 QL	0.042 QL	0.1	0.1	0.16	0.11	ND (0.016)	ND (0.015)
8270C SIM	2-Methylnaphthalene	µg/L	NS	NS	ND (0.016)	ND (0.016)	0.20 QL	ND (0.019)	0.054	0.06	0.13	0.095	0.022 J	0.018 J
8270C SIM	Acenaphthene	µg/L	NS	NS	ND (0.016)	ND (0.016)	0.019 J QL	ND (0.019)	ND (0.015)	ND (0.015)	0.0098 J	ND (0.016)	ND (0.016)	ND (0.015)
8270C SIM	Acenaphthylene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	ND (0.015)	ND (0.015)	ND (0.015)	0.0070 J QN	ND (0.016)	ND (0.015)
8270C SIM	Anthracene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	ND (0.015)	0.013 J	ND (0.015)	ND (0.016)	0.0081 J	ND (0.015)
8270C SIM	Benzo[a]anthracene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.011 J	0.013 J	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)
8270C SIM	Benzo[a]pyrene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	ND (0.015)	0.0070 J QN	ND (0.015)	ND (0.016)	ND (0.016)	0.0065 J
8270C SIM	Benzo[b]fluoranthene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0083 J QN	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.0032)	ND (0.03)
8270C SIM	Benzo[g,h,i]perylene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0062 J QN	0.0062 J QN	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)
8270C SIM	Benzo[k]fluoranthene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0078 J	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.032)	ND (0.03)
8270C SIM	Chrysene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0085 J	0.0093 J	ND (0.015)	ND (0.016)	0.0000090 J	0.0086 J
8270C SIM	Dibenz(a,h)anthracene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0084 J QN	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.032)	ND (0.03)
8270C SIM	Fluoranthene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.012 J	0.011 J	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)
8270C SIM	Fluorene	µg/L	NS	NS	ND (0.016)	ND (0.016)	0.062 QL	ND (0.019)	ND (0.015)	ND (0.015)	0.033	0.011 J	ND (0.016)	ND (0.015)
8270C SIM	Indeno[1,2,3-cd]pyrene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.0065 J QN	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.032)	ND (0.03)
8270C SIM	Naphthalene	µg/L	NS	NS	0.035 QL	0.030 QL	0.052 QL	0.011 J QL	ND (0.015)	0.0094 J	0.085	0.056	ND (0.016)	ND (0.015)
8270C SIM	Phenanthrene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)
8270C SIM	Pyrene	µg/L	NS	NS	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.019)	0.019 J	0.017 J	0.0069 J	0.0087 J	0.021 J	0.020 J
Total Aqueous Hydrocarbons (TAqH) Sum of BTEX+PAHs		µg/L	15	15	10.421 QL	10.406 QL	9.879 J, QL, QH	9.32 J, QL, QH	9.14 J, B, QN	9.19 J, B, QN	2.85 J, B, QH	4.34 J, B, QN	10.35 J	10.32 J
AK101	GRO	mg/L	No Sheen[1]	No Sheen[2]	0.021 J B	0.016 J B	0.031 J B	0.023 J B	0.020 J B	0.021 J B	0.024 J B	0.027 J B	0.047 J	0.027 J
AK102	DRO	mg/L	No Sheen[1]	No Sheen[2]	2.5	2.1	0.025 J	0.99 QL	2.7	2.1	0.75	0.92	1.4	1.3
AK103	RRO	mg/L	No Sheen[1]	No Sheen[2]	2.3	1.8	ND (0.053)	0.41	3.4 QN	2.1 QN	0.48	0.36	0.98	0.81

Notes:

[1] Cleanup levels established in 2009 Decision Document

[2] Evaluation Criteria from 18AAC 70-Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances, Drinking Water Criteria

[D]Sample is a field duplicate of preceding sample.

-- = not analyzed

B = Analyte detected in a QC blank, sample result may have potential high bias

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

QN = One or more quality parameters was out of control with no directional bias.

Table H7 MOC Surface Water Sample Results (continued)

				Sample ID	14NCMOCSW11	14NCMOCSW12	Trip Blank 082514-1
				Laboratory ID	580-45125-3	580-45125-4	580-45125-5
				Location ID	MOCSW02	MOCSW03	Trip Blank
				Collection Date	8/24/2014	8/24/2014	8/24/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level [1]**	**Evaluation Criteria [2]**	Post Excavation	Post Excavation	Post Excavation
8260B	Benzene	µg/L	NS	5	ND (0.4)	ND (0.4)	ND (0.4)
8260B	Ethylbenzene	µg/L	NS	700	ND (0.4)	ND (0.4)	0.13 J
8260B	Toluene	µg/L	NS	1,000	ND (0.4)	0.3 J	ND (0.4)
8260B	m-Xylene & p-Xylene	µg/L	NS	10,000	ND (0.4)	0.25 J, B	0.13 J
8260B	o-Xylene	µg/L	NS	10,000	ND (0.4)	0.24 J, B	0.13 J
Total Aromatic Hydrocarbons (TAH) Sum of BTEX		µg/L	10	10	ND (2.0)	1.59 J, B	1.19 J
8270C SIM	1-Methylnaphthalene	µg/L	NS	NS	ND (0.016)	0.68 QH	--
8270C SIM	2-Methylnaphthalene	µg/L	NS	NS	ND (0.016)	0.23 QH	--
8270C SIM	Acenaphthene	µg/L	NS	NS	ND (0.016)	0.18	--
8270C SIM	Acenaphthylene	µg/L	NS	NS	ND (0.016)	ND (0.015)	--
8270C SIM	Anthracene	µg/L	NS	NS	ND (0.016)	ND (0.015)	--
8270C SIM	Benzo[a]anthracene	µg/L	NS	NS	ND (0.016)	ND (0.015)	--
8270C SIM	Benzo[a]pyrene	µg/L	NS	NS	ND (0.016)	ND (0.015)	--
8270C SIM	Benzo[b]fluoranthene	µg/L	NS	NS	ND (0.032)	ND (0.03)	--
8270C SIM	Benzo[g,h,i]perylene	µg/L	NS	NS	ND (0.016)	ND (0.015)	--
8270C SIM	Benzo[k]fluoranthene	µg/L	NS	NS	ND (0.032)	ND (0.03)	--
8270C SIM	Chrysene	µg/L	NS	NS	ND (0.016)	0.0043 J	--
8270C SIM	Dibenz(a,h)anthracene	µg/L	NS	NS	ND (0.032)	ND (0.03)	--
8270C SIM	Fluoranthene	µg/L	NS	NS	0.0000055 J, QH	0.01 J	--
8270C SIM	Fluorene	µg/L	NS	NS	ND (0.016)	0.37	--
8270C SIM	Indeno[1,2,3-cd]pyrene	µg/L	NS	NS	ND (0.032)	ND (0.03)	--
8270C SIM	Naphthalene	µg/L	NS	NS	ND (0.016)	0.57	--
8270C SIM	Phenanthrene	µg/L	NS	NS	ND (0.016)	0.011 J	--
8270C SIM	Pyrene	µg/L	NS	NS	0.0080 J, QH	0.010 J	--
Total Aqueous Hydrocarbons (TAqH) Sum of BTEX+PAHs		µg/L	15	15	2.33 J, QH	3.82 J, B, QH	--
AK101	GRO	mg/L	No Sheen[1]	No Sheen[2]	0.019 J	0.091	ND (0.044)
AK102	DRO	mg/L	No Sheen[1]	No Sheen[2]	0.55	1.7	--
AK103	RRO	mg/L	No Sheen[1]	No Sheen[2]	0.27	0.33 QH	--

Notes:

[1] Cleanup levels established in 2009 Decision Document

[2] Evaluation Criteria from 18AAC 70-Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances, Drinking Water Criteria

[D]Sample is a field duplicate of preceding sample.

-- = not analyzed

B = Analyte detected in a QC blank, sample result may have potential high bias

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

QN = One or more quality parameters was out of control with no directional bias.

Table H8 Site 10 Soil Sample Results

				Sample ID **	14NC10SS001	14NC10SS002	14NC10SS003	14NC10SS004[D]	14NC10SS005	14NC10SS006	14NC10SS007	TB AV00281
				Laboratory ID **	580-44702-1	580-44702-2	580-44702-3	580-44702-4	580-44702-5	580-44702-6	NA	580-44702-7
				Location ID	10SS001	10SS002	10SS003	10SS004	10SS005	10SS006	10SS007	Trip Blank
				Collection Date	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	
6020	Arsenic	mg/Kg	11 [1]	NA	4.5	3.8	4.3	3.6	4.2	2.2	--	--
6020	Barium	mg/Kg	NA	1100 [2]	29	36	39	32	33 QH	47	--	--
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.39	0.19	0.15	0.16	0.23	0.27	--	--
6020	Chromium	mg/Kg	NA	25 [2]	10	11	11	11	18 QL	10	--	--
6020	Lead	mg/Kg	NA	400 [2]	61	42	27	24	55 QL	26	--	--
6020	Nickel	mg/Kg	NA	86 [2]	5.7	6.7	7.2	7.1	8.1	5.3	--	--
6020	Selenium	mg/Kg	NA	3.4 [2]	1.2	0.83	0.41 J	0.43 J	0.56	0.95	--	--
6020	Silver	mg/Kg	NA	11.2 [2]	0.14 J	0.10 J	0.067 J	0.055 J	0.060 J	0.073 J	--	--
6020	Vanadium	mg/Kg	NA	3400 [2]	21	20	19	19	21 QH	17	--	--
6020	Zinc	mg/Kg	NA	4100 [2]	76	120	75	63	63	50	--	--
7471A	Mercury	mg/Kg	NA	1.4 [2]	ND (0.0079)	0.016	0.017	0.017	0.028	0.036	--	--
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	ND (5.3)	ND (5.3)	ND (5.4)	ND (5.2)	ND (5.3)	ND (7.8) QL	--	--
8015C	Propylene glycol	mg/Kg	NS	NS	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.1)	ND (3.2)	ND (4.7) QL	--	--
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (0.0053)	ND (0.053)	ND (0.0054)	ND (0.0051)	ND (0.0053) QN	ND (0.0076)	--	--
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (0.011)	ND (0.11)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.015)	--	--
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (0.011)	ND (0.11)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.015)	--	--
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (0.0053)	ND (0.053)	ND (0.0054)	ND (0.0051)	ND (0.0053)	ND (0.0076)	--	--
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (0.0053)	ND (0.053)	ND (0.0054)	ND (0.0051)	ND (0.0053)	ND (0.0076)	--	--
8082	PCB-1254	mg/Kg	1.0 [1]	NA	ND (0.0053)	ND (0.053)	ND (0.0054)	ND (0.0051)	ND (0.0053)	0.035	--	--
8082	PCB-1260	mg/Kg	1.0 [1]	NA	0.0080 J	ND (0.053)	ND (0.0054)	ND (0.0051)	ND (0.0053)	ND (0.0076)	--	--
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.0039)	ND (0.003)	ND (5.6)	ND (0.0045)	ND (0.0049)	ND (0.0094)	--	ND (0.0030)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.021)	ND (0.019)	**ND (30)**	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.0026)	**ND (0.050)**	--	**0.059**
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.0026)	ND (0.050)	--	ND (0.016)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.0026)	ND (0.050)	--	0.018 J B
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.010)**	**ND (0.0096)**	**ND (0.015)**	**ND (0.012)**	**ND (0.013)**	**ND (0.025)**	--	**ND (0.0080)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.013 J B
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.097
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.010)**	**ND (0.0096)**	**ND (0.015)**	**ND (0.012)**	**ND (0.013)**	**ND (0.025)**	--	**ND (0.0080)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.027 J
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS008	14NC10SS009[D]	14NC10SS010	14NC10SS011	14NC10SS012	14NC10SS013	14NC10SS014	14NC10SS015[D]	14NC10SS016	14NC10SS017
				Laboratory ID **	580-44802-1	580-44802-2	580-44802-3	580-44802-4	580-44802-5	580-44802-6	580-44802-7	580-44802-8	580-44802-9	580-44802-10
				Location ID	10SS008	10SS009	10SS010	10SS011	10SS012	10SS013	10SS014	10SS015	10SS016	10SS017
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Floor	Floor	Floor	Floor	Floor	Floor	Sidewall	Sidewall	Sidewall	Sidewall
6020	Arsenic	mg/Kg	11 [1]	NA	6.6	7.3	5.5	6.0	4.9	6.2	5.2	5.4	4.1	4.5
6020	Barium	mg/Kg	NA	1100 [2]	58	66	53	57	33	59	44	40	66	28
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.12 J	0.14 J	0.047 J	0.11 J	0.19	0.17 J	0.27	0.24	0.23	0.20
6020	Chromium	mg/Kg	NA	25 [2]	20	24	21	24	15	24	16	18	13	11
6020	Lead	mg/Kg	NA	400 [2]	23	24	20	21	45	29	45	60	55	32
6020	Nickel	mg/Kg	NA	86 [2]	12	13	12	14	8.2	13	9.7	11	8.1	9.0
6020	Selenium	mg/Kg	NA	3.4 [2]	1.3	1.4	1.1	1.2	0.97	1.3	0.99	1.0	0.82	0.49
6020	Silver	mg/Kg	NA	11.2 [2]	0.11 J	0.13 J	0.12 J	0.094 J	0.13 J	0.13 J	0.14 J	0.17	0.13 J	0.073 J
6020	Vanadium	mg/Kg	NA	3400 [2]	35	39	32	40	24	37	28	26	20	17
6020	Zinc	mg/Kg	NA	4100 [2]	55	57	49	54	58	60	79	84	67	66
7471A	Mercury	mg/Kg	NA	1.4 [2]	0.028	0.026	0.022	0.022	0.0095 J	0.017	0.022	0.025	0.016	0.025
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	ND (5.8)	ND (5.8)	ND (5.6)	ND (5.8)	ND (5.6)	ND (5.6)	ND (5.3)	ND (5.6)	83	ND (5.2)
8015C	Propylene glycol	mg/Kg	NS	NS	ND (3.5)	ND (3.5)	ND (3.4)	ND (3.5)	ND (3.4)	ND (3.3)	ND (3.2)	ND (3.4)	ND (3.1)	ND (3.1)
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.01)
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.01)
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.01)
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.01)
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.01)
8082	PCB-1254	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	0.0055 J	ND (0.011)	ND (0.012)	0.025 J	0.027 J
8082	PCB-1260	mg/Kg	1.0 [1]	NA	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	0.0039 J	0.013 J	0.019 J	0.022 J	0.020 J
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.0039)	ND (0.0060)	ND (0.0034)	ND (0.0032)	ND (0.0046)	ND (0.0040)	ND (0.0052)	ND (0.0050)	ND (0.0058)	ND (0.0040)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	ND (0.021)	**ND (0.032)**	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	**ND (0.031)**	ND (0.021)
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.010)**	**ND (0.016)**	**ND (0.0090)**	**ND (0.0086)**	**ND (0.012)**	**ND (0.011)**	**ND (0.014)**	**ND (0.013)**	**ND (0.015)**	**ND (0.011)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.010)	ND (0.016)	0.0047 J B	ND (0.0086)	0.040 J B	5.7	0.120 QN	0.760 QN	3.6	0.028 J B
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	0.032 J
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.010)**	**ND (0.016)**	**ND (0.0090)**	**ND (0.0086)**	**ND (0.012)**	**0.0082 J**	**ND (0.014)**	**ND (0.013)**	**ND (0.015)**	**ND (0.011)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	0.013 J B	2	0.037 J	0.22	1.1	0.0067 J B
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS018	14NC10SS019	14NC10SS020	14NC10SS021	14NC10SS022	14NC10SS023	TB080414	14NC10SS024	14NC10SS025	14NC10SS026
				Laboratory ID **	580-44802-11	580-44802-12	580-44802-13	580-44802-14	580-44802-15	580-44802-16	580-44802-17	580-44911-1	580-44911-2	580-44911-3
				Location ID	10SS018	10SS019	10SS020	10SS021	10SS022	10SS023	TB080414	10SS024	10SS025	10SS026
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/8/2014	8/8/2014	8/8/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor		(Floor) SGS ID for PAHs+ PCBs 143700001	(Sidewall) SGS ID for PAHs+ PCBs 143700002	(Sidewall) SGS ID for PAHs+ PCBs 143700003
6020	Arsenic	mg/Kg	11 [1]	NA	4.5	5.5	6.2	4.5	5.7	4.7	--	3.2	4.4	4.1
6020	Barium	mg/Kg	NA	1100 [2]	63	56	31	38	71	32	--	67	46	20
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.18 J	0.13 J	0.18 J	0.21	0.25	0.22	--	0.12 J	0.28	0.17
6020	Chromium	mg/Kg	NA	25 [2]	37	13	14	10 J QH	12	11	--	11	12	7.3
6020	Lead	mg/Kg	NA	400 [2]	64	18	29	60	34	50	--	19	24	57
6020	Nickel	mg/Kg	NA	86 [2]	11	7.8	9.5	6.0	10	6.2	--	4.9	9.2	4.4
6020	Selenium	mg/Kg	NA	3.4 [2]	1.7	1.3	1.3	1.0	0.80	1.1	--	1.8	0.39 J	0.67
6020	Silver	mg/Kg	NA	11.2 [2]	0.12 J	0.12 J	0.12 J	0.12 J	0.085 J	0.11 J	--	0.12 J	0.063 J	0.11 J
6020	Vanadium	mg/Kg	NA	3400 [2]	33	36	29	20 J QH	29	21	--	32	20	17
6020	Zinc	mg/Kg	NA	4100 [2]	90	39	50	66 J QH	140	140	--	36	53	70
7471A	Mercury	mg/Kg	NA	1.4 [2]	0.033	0.032	0.018	0.0096 J	0.013 J	0.011 J	--	0.075	0.017	0.0090 J
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	ND (6.7)	ND (5.9)	ND (5.6)	ND (5.4)	ND (5.2)	ND (5.3)	--	ND (9.7) QL	ND (5.2)	ND (5.4)
8015C	Propylene glycol	mg/Kg	NS	NS	ND (4.0)	ND (3.5)	ND (3.3)	ND (3.2)	ND (3.1)	ND (3.2)	--	ND (5.8) QL	ND (3.1)	ND (3.2)
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1254	mg/Kg	1.0 [1]	NA	0.005.4 J	ND (0.012)	ND (0.012)	ND (0.022)	ND (0.11)	ND (0.011)	--	ND (0.0415)	ND (0.0265)	ND (0.0274)
8082	PCB-1260	mg/Kg	1.0 [1]	NA	ND (0.014)	ND (0.012)	ND (0.012)	0.012 J	ND (0.11)	ND (0.011)	--	ND (0.0415)	0.0509 J	ND (0.0274)
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.012)	ND (0.0064)	ND (0.0057)	ND (0.0052)	ND (0.0039)	ND (0.0048)	ND (0.0030)	ND (0.011)	ND (0.0050)	ND (0.0052)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	**0.037**	ND (0.013)	ND (0.014)
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	**ND (0.061)**	**ND (0.034)**	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	**ND (0.059)**	ND (0.026)	ND (0.028)
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	0.019 J	ND (0.059)	ND (0.026)	ND (0.028)
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.031)**	**ND (0.017)**	**ND (0.015)**	**ND (0.014)**	**ND (0.010)**	**ND (0.013)**	**ND (0.0080)**	**ND (0.030)**	**ND (0.013)**	**ND (0.014)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	0.016 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	0.033 J B	ND (0.017)	0.0092 J	ND (0.014)	0.0079 J	0.11	0.0045 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.031)**	**ND (0.017)**	**ND (0.015)**	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	**ND (0.030)**	**ND (0.013)**	**ND (0.014)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	0.0038 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	**ND (0.031)**	**ND (0.017)**	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	**ND (0.030)**	ND (0.013)	ND (0.014)
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	**ND (0.031)**	**ND (0.017)**	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	**0.036 J**	ND (0.013)	ND (0.014)
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.031)	ND (0.017)	0.0072 J	ND (0.014)	ND (0.010)	0.030 J	0.0034 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS027[D]	14NC10SS028	14NC10SS029	14NC10SS030	14NC10SS031	14NC10SS032	14NC10SS033	TB081114-01	14NC10SS034	14NC10SS035
				Laboratory ID **	580-44911-4	580-44911-5	580-44911-6	580-44911-7	580-44911-8	580-44911-9	580-44911-10	580-44911-11	1143921001	1143921002
				Location ID	10SS027	10SS028	10SS029	10SS030	10SS031	10SS032	10SS033	Trip Blank	10SS034	10SS035
				Collection Date	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/10/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	(Sidewall) SGS ID for PAHs+ PCBs 143700004	(Sidewall) SGS ID for PAHs+ PCBs 143700005	(Floor)SGS ID for PAHs+ PCBs 143700006	(Sidewall) SGS ID for PAHs+ PCBs 143700007	(Floor) SGS ID for PAHs+ PCBs 143700008	(Sidewall) SGS ID for PAHs+ PCBs 143700011	(Sidewall) SGS ID for PAHs+ PCBs 143700012		Floor	Sidewall
6020	Arsenic	mg/Kg	11 [1]	NA	4.3	6.5	5.5	7.8	6.1	6.3	3.5	--	--	--
6020	Barium	mg/Kg	NA	1100 [2]	24	58	45	82	53 QH	66	54	--	--	--
6020	Cadmium	mg/Kg	NA	5.0 [2]	0.20	0.16 J	0.18	0.15 J	0.21	0.20	0.33	--	--	--
6020	Chromium	mg/Kg	NA	25 [2]	8.9	22	19	24	18 QH	40	13	--	--	--
6020	Lead	mg/Kg	NA	400 [2]	56	32	26	26	43 QH	20	22	--	--	--
6020	Nickel	mg/Kg	NA	86 [2]	4.8	12	11	15	11	16	8.8	--	--	--
6020	Selenium	mg/Kg	NA	3.4 [2]	0.69	0.97	1.1	0.94	0.93	0.96	1.3	--	--	--
6020	Silver	mg/Kg	NA	11.2 [2]	0.11 J	0.19	0.097 J	0.15 J	0.26	0.099 J	0.12 J	--	--	--
6020	Vanadium	mg/Kg	NA	3400 [2]	20	36	34	41	33 QH	42	19	--	--	--
6020	Zinc	mg/Kg	NA	4100 [2]	84	66	51	68	77	60	38	--	--	--
7471A	Mercury	mg/Kg	NA	1.4 [2]	0.0098 J	0.024	0.022	0.030	0.020 QH	0.030	0.11	--	--	--
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	ND (5.3)	ND (5.7) QL	ND (6.0) QL	ND (5.7) QL	ND (5.7)	ND (6.4) QL	ND (6.9) QL	--	--	--
8015C	Propylene glycol	mg/Kg	NS	NS	ND (3.2)	ND (3.4)	ND (3.6)	ND (3.4)	ND (3.4)	ND (3.8)	ND (4.2)	--	--	--
8082	PCB-1016	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1221	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1232	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1242	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1248	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1254	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8082	PCB-1260	mg/Kg	1.0 [1]	NA	ND (0.0271)	ND (0.0284)	ND (0.0296)	ND (0.0289)	ND (0.0286)	ND (0.0294)	ND (0.0279)	--	--	--
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.0059)	ND (3.4)	ND (0.0055)	ND (0.0032)	ND (0.0050)	ND (0.0055)	ND (0.0057)	ND (0.0030)	ND (0.0457)	ND (0.0915)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0457)	ND (0.0915)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	**ND (0.0229)**	**ND (0.0457)**
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	**ND (0.0457)**	**ND (0.0915)**
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	**ND (0.032)**	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	**ND (0.0457)**	**ND (0.0915)**
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0457)	ND (0.0915)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.016)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	0.0081 J	ND (0.0915)	ND (0.183)
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.016)**	**ND (0.0091)**	**ND (0.015)**	**ND (0.0087)**	**ND (0.013)**	**ND (0.015)**	**ND (0.015)**	**ND (0.0080)**	**ND (0.0457)**	**ND (0.0915)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	0.0074 J	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0915)	ND (0.183)
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.1825)	ND (0.3655)
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.016)**	**ND (0.0091)**	**ND (0.015)**	**ND (0.0087)**	**ND (0.013)**	**ND (0.015)**	**ND (0.015)**	**ND (0.0080)**	**ND (0.0457)**	**ND (0.0915)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	**ND (0.0457)**	**ND (0.0915)**
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	**ND (0.0457)**	**ND (0.0915)**
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS036[D]	14NC10SS037	14NC10SS038	14NC10SS039	14NC10SS040
				Laboratory ID **	1143921003	1143921004	1143921005	1143921006	1143921009
				Location ID	10SS036	10SS037	10SS038	10SS039	10SS040
				Collection Date	8/18/2014	8/18/2014	8/18/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Floor	Sidewall	Sidewall
6020	Arsenic	mg/Kg	11 [1]	NA	--	--	--	--	--
6020	Barium	mg/Kg	NA	1100 [2]	--	--	--	--	--
6020	Cadmium	mg/Kg	NA	5.0 [2]	--	--	--	--	--
6020	Chromium	mg/Kg	NA	25 [2]	--	--	--	--	--
6020	Lead	mg/Kg	NA	400 [2]	--	--	--	--	--
6020	Nickel	mg/Kg	NA	86 [2]	--	--	--	--	--
6020	Selenium	mg/Kg	NA	3.4 [2]	--	--	--	--	--
6020	Silver	mg/Kg	NA	11.2 [2]	--	--	--	--	--
6020	Vanadium	mg/Kg	NA	3400 [2]	--	--	--	--	--
6020	Zinc	mg/Kg	NA	4100 [2]	--	--	--	--	--
7471A	Mercury	mg/Kg	NA	1.4 [2]	--	--	--	--	--
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	--	--	--	--	--
8015C	Propylene glycol	mg/Kg	NS	NS	--	--	--	--	--
8082	PCB-1016	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1221	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1232	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1242	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1248	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1254	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8082	PCB-1260	mg/Kg	1.0 [1]	NA	--	--	--	--	--
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	**ND (0.054)**	ND (0.0161)	ND (0.0149)	**ND (0.0272)**	**ND (0.0294)**
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	ND (0.1075)	**ND (0.0321)**	ND (0.0297)	**ND (0.0545)**	**ND (0.0585)**
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.215)	ND (0.064)	ND (0.0595)	ND (0.109)	ND (0.117)
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.215)	ND (0.064)	ND (0.0595)	7.01	ND (0.117)
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.430)	ND (0.128)	ND (0.119)	ND (0.218)	ND (0.234)
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	1.84	ND (0.0585)
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	TB081814-1	14NC10SS041	14NC10SS042[D]	14NC10SS043	14NC10SS044	TB082214-1	14NC10SS045	14NC10SS046[D]	14NC10SS047	Trip Blank 093014-01
				Laboratory ID **	1143921010	580-45105-1	580-45105-2	580-45105-3	580-45105-4	580-45105-5	580-45739-1	580-45739-2	580-45739-3	580-45739-4
				Location ID	FieldQC	10SS041	10SS042	10SS043	10SS044	Trip Blank	10SS045	10SS046	10SS047	Trip Blank
				Collection Date	8/18/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**		Sidewall	Sidewall	Floor	Sidewall		Sidewall	Sidewall	Floor	
6020	Arsenic	mg/Kg	11 [1]	NA	--	--	--	--	--	--	--	--	--	--
6020	Barium	mg/Kg	NA	1100 [2]	--	--	--	--	--	--	--	--	--	--
6020	Cadmium	mg/Kg	NA	5.0 [2]	--	--	--	--	--	--	--	--	--	--
6020	Chromium	mg/Kg	NA	25 [2]	--	--	--	--	--	--	--	--	--	--
6020	Lead	mg/Kg	NA	400 [2]	--	--	--	--	--	--	--	--	--	--
6020	Nickel	mg/Kg	NA	86 [2]	--	--	--	--	--	--	--	--	--	--
6020	Selenium	mg/Kg	NA	3.4 [2]	--	--	--	--	--	--	--	--	--	--
6020	Silver	mg/Kg	NA	11.2 [2]	--	--	--	--	--	--	--	--	--	--
6020	Vanadium	mg/Kg	NA	3400 [2]	--	--	--	--	--	--	--	--	--	--
6020	Zinc	mg/Kg	NA	4100 [2]	--	--	--	--	--	--	--	--	--	--
7471A	Mercury	mg/Kg	NA	1.4 [2]	--	--	--	--	--	--	--	--	--	--
8015C	Ethylene glycol	mg/Kg	NA	190000 [2]	--	--	--	--	--	--	--	--	--	--
8015C	Propylene glycol	mg/Kg	NS	NS	--	--	--	--	--	--	--	--	--	--
8082	PCB-1016	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1221	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1232	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1242	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1248	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1254	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8082	PCB-1260	mg/Kg	1.0 [1]	NA	--	--	--	--	--	--	--	--	--	--
8260B	1,1,1,2-Tetrachloroethane	mg/Kg	NS	NS	ND (0.0125)	ND (0.0031)	ND (0.0040)	ND (0.0036)	ND (0.0044)	ND (0.0030)	ND (0.013)	ND (0.011)	ND (0.0030)	ND (0.0030)
8260B	1,1,1-Trichloroethane	mg/Kg	NS	0.820 [2]	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	1,1,2,2-Tetrachloroethane	mg/Kg	NS	0.017 [2]	ND (0.00625)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	1,1,2-Trichloroethane	mg/Kg	NS	0.018 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	1,1-Dichloroethane	mg/Kg	NS	25 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,1-Dichloroethene	mg/Kg	NS	0.030 [2]	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	**0.058 J B**	**0.11**	ND (0.016)	0.0094 J
8260B	1,1-Dichloropropene	mg/Kg	NS	NS	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	1,2,3-Trichlorobenzene	mg/Kg	NS	NS	ND (0.025)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	1,2,3-Trichloropropane	mg/Kg	NA	0.00053 [2]	**ND (0.0125)**	**ND (0.0083)**	**ND (0.011)**	**ND (0.0096)**	**ND (0.012)**	**ND (0.0080)**	**ND (0.036)**	**ND (0.030)**	**ND (0.0080)**	**ND (0.0080)**
8260B	1,2,4-Trichlorobenzene	mg/Kg	NA	0.850 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,2,4-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.025)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,2-Dibromo-3-Chloropropane	mg/Kg	NS	NS	ND (0.050)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,2-Dibromoethane	mg/Kg	NA	0.00016 [2]	**ND (0.0125)**	**ND (0.0083)**	**ND (0.011)**	**ND (0.0096)**	**ND (0.012)**	**ND (0.0080)**	**ND (0.036)**	**ND (0.030)**	**ND (0.0080)**	**ND (0.0080)**
8260B	1,2-Dichlorobenzene	mg/Kg	NA	5.1 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,2-Dichloroethane	mg/Kg	NA	0.016 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	1,2-Dichloropropane	mg/Kg	NA	0.018 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	1,3,5-Trimethylbenzene	mg/Kg	NA	23 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,3-Dichlorobenzene	mg/Kg	NA	28 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS001	14NC10SS002	14NC10SS003	14NC10SS004[D]	14NC10SS005	14NC10SS006	14NC10SS007	TB AV00281
				Laboratory ID **	580-44702-1	580-44702-2	580-44702-3	580-44702-4	580-44702-5	580-44702-6	NA	580-44702-7
				Location ID	10SS001	10SS002	10SS003	10SS004	10SS005	10SS006	10SS007	Trip Blank
				Collection Date	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.083)	ND (0.077)	ND (0.120)	ND (0.096)	ND (0.100)	ND (0.200)	--	ND (0.064)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.041)	ND (0.039)	ND (0.060)	ND (0.048)	ND (0.052)	ND (0.100)	--	ND (0.032)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.041)	ND (0.039)	ND (0.060)	ND (0.048)	ND (0.052)	ND (0.100)	--	ND (0.032)
8260B	Acetone	mg/Kg	88	88	ND (0.410)	ND (0.390)	0.380 J B	ND (0.480)	ND (0.520)	ND (1)	--	0.380 J
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.024
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	ND (0.0039)	ND (0.0036)	ND (0.0056)	ND (0.0045)	ND (0.0049)	ND (0.0094)	--	ND (0.0030)
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	ND (0.052)	ND (0.048)	ND (0.075)	ND (0.060)	ND (0.065)	ND (0.130)	--	ND (0.040)
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	ND (0.0039)	ND (0.0036)	ND (0.0056)	ND (0.0045)	ND (0.0049)	ND (0.0094)	--	ND (0.0030)
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.052)	ND (0.048)	ND (0.075)	ND (0.060)	ND (0.065)	ND (0.130)	--	ND (0.040)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.052)	ND (0.048)	ND (0.075)	ND (0.060)	ND (0.065)	ND (0.130)	--	ND (0.040)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.0039)	ND (0.0036)	ND (0.0056)	ND (0.0045)	ND (0.0049)	ND (0.0094)	--	ND (0.0030)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.038 J
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.015 J B
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.0051 J
8260B	m,p-Xylene	mg/Kg	NS	NS	0.013 J B	ND (0.0096)	0.032 J B	ND (0.012)	ND (0.013)	ND (0.025)	--	0.12
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**70 B**	**0.069 B**	**0.087 B**	**0.050 B**	**0.130 B**	**0.049 J B**	--	**0.067 B**
8260B	Naphthalene	mg/Kg	120 [1]	NA	0.011 J B	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	0.110 B
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.012 J B
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.015 J
8260B	o-Xylene	mg/Kg	NS	NS	0.014 J B	ND (0.0096)	0.043 J B	ND (0.012)	ND (0.013)	ND (0.025)	--	0.048
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.010 J
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.0050 J
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	0.041
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	ND (0.0039)	ND (0.0036)	ND (0.0056)	ND (0.0045)	ND (0.0049)	ND (0.0094)	--	ND (0.0030)
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.010)	0.0066 J B	0.0065 J B	ND (0.012)	ND (0.013)	ND (0.025)	--	0.91
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.010)	ND (0.0096)	ND (0.015)	ND (0.012)	ND (0.013)	ND (0.025)	--	ND (0.0080)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	ND (0.010)	ND (0.0096)	0.011 J	ND (0.012)	ND (0.013)	**ND (0.025)**	--	ND (0.0080)
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.021)	ND (0.019)	ND (0.030)	ND (0.024)	ND (0.026)	ND (0.050)	--	ND (0.016)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.010)**	**ND (0.0096)**	**ND (0.015)**	**ND (0.012)**	**ND (0.013)**	**ND (0.025)**	--	ND (0.0080)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS008	14NC10SS009[D]	14NC10SS010	14NC10SS011	14NC10SS012	14NC10SS013	14NC10SS014	14NC10SS015[D]	14NC10SS016	14NC10SS017
				Laboratory ID **	580-44802-1	580-44802-2	580-44802-3	580-44802-4	580-44802-5	580-44802-6	580-44802-7	580-44802-8	580-44802-9	580-44802-10
				Location ID	10SS008	10SS009	10SS010	10SS011	10SS012	10SS013	10SS014	10SS015	10SS016	10SS017
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Floor	Floor	Floor	Floor	Floor	Floor	Sidewall	Sidewall	Sidewall	Sidewall
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	0.0053 J
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.083)	ND (0.130)	ND (0.072)	ND (0.069)	ND (0.098)	ND (0.086)	ND (0.110)	ND (0.110)	ND (0.120)	ND (0.085)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.0063 J	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.041)	ND (0.064)	ND (0.036)	ND (0.034)	ND (0.049)	ND (0.043)	ND (0.056)	ND (0.053)	ND (0.062)	ND (0.042)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.041)	ND (0.064)	ND (0.036)	ND (0.034)	ND (0.049)	ND (0.043)	ND (0.056)	ND (0.053)	ND (0.062)	ND (0.042)
8260B	Acetone	mg/Kg	88	88	ND (0.410)	ND (0.640)	ND (0.360)	ND (0.340)	ND (0.490)	ND (0.430)	ND (0.560)	ND (0.530)	ND (0.620)	ND (0.420)
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	ND (0.0039)	ND (0.0060)	ND (0.0034)	ND (0.0032)	ND (0.0046)	ND (0.0040)	ND (0.0052)	ND (0.0050)	ND (0.0058)	ND (0.0040)
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	ND (0.052)	ND (0.080)	ND (0.045)	ND (0.043)	ND (0.061)	ND (0.053)	ND (0.070)	ND (0.066)	ND (0.077)	ND (0.053)
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	ND (0.0039)	ND (0.0060)	ND (0.0034)	ND (0.0032)	ND (0.0046)	ND (0.0040)	ND (0.0052)	ND (0.0050)	ND (0.0058)	ND (0.0040)
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.052)	ND (0.080)	ND (0.045)	ND (0.043)	ND (0.061)	ND (0.053)	ND (0.070)	ND (0.066)	ND (0.077)	ND (0.053)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.052)	ND (0.080)	ND (0.045)	ND (0.043)	ND (0.061)	ND (0.053)	ND (0.070)	ND (0.066)	ND (0.077)	ND (0.053)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.0039)	ND (0.0060)	ND (0.0034)	ND (0.0032)	ND (0.0046)	ND (0.0040)	ND (0.0052)	ND (0.0050)	ND (0.0058)	ND (0.0040)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.63	0.022 J B	0.031 J B	0.27	0.014 J B
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.41	0.011 J	0.030 J	0.21	ND (0.011)
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	0.0092 J B	1.9	0.041 J B	0.097 B	0.88	0.013 J B
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**ND (0.021)**	**ND (0.032)**	**ND (0.018)**	**ND (0.017)**	**ND (0.024)**	**ND (0.021)**	**ND (0.028)**	**ND (0.027)**	**ND (0.031)**	**ND (0.021)**
8260B	Naphthalene	mg/Kg	120 [1]	NA	0.0093 J B	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	0.043 J B	ND (0.028)	0.018 J B	0.025 J B	ND (0.021)
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	1.1	0.030 J B	0.18	0.64	0.0055 J B
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	0.0072 J	1.1	0.021 J	0.092	0.62	0.010 J
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	0.0068 J B	1.3	0.027 J B	0.08	0.63	0.0069 J B
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	0.0059 J	0.75	0.016 J	0.099	0.42	0.0056 J
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.56	0.012 J	0.066	0.31	ND (0.011)
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.086	ND (0.014)	0.011 J B	0.048 J B	ND (0.011)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	ND (0.0039)	ND (0.0060)	ND (0.0034)	ND (0.0032)	ND (0.0046)	**0.029**	ND (0.0052)	ND (0.0050)	0.0092 J	ND (0.0040)
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	0.190 B	0.012 J B	0.0072 J B	0.052 J B	0.0077 J B
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	ND (0.010)	ND (0.016)	ND (0.0090)	ND (0.0086)	ND (0.012)	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.011)
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.021)	ND (0.032)	ND (0.018)	ND (0.017)	ND (0.024)	ND (0.021)	ND (0.028)	ND (0.027)	ND (0.031)	ND (0.021)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.010)**	**ND (0.016)**	**ND (0.0090)**	**ND (0.0086)**	**ND (0.012)**	**ND (0.011)**	**ND (0.014)**	**ND (0.013)**	**ND (0.015)**	**ND (0.011)**

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS018	14NC10SS019	14NC10SS020	14NC10SS021	14NC10SS022	14NC10SS023	TB080414	14NC10SS024	14NC10SS025	14NC10SS026
				Laboratory ID **	580-44802-11	580-44802-12	580-44802-13	580-44802-14	580-44802-15	580-44802-16	580-44802-17	580-44911-1	580-44911-2	580-44911-3
				Location ID	10SS018	10SS019	10SS020	10SS021	10SS022	10SS023	TB080414	10SS024	10SS025	10SS026
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/8/2014	8/8/2014	8/8/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor		(Floor) SGS ID for PAHs+ PCBs 143700001	(Sidewall) SGS ID for PAHs+ PCBs 143700002	(Sidewall) SGS ID for PAHs+ PCBs 143700003
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.0055 J	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028) QH	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.250)	ND (0.140)	ND (0.120)	ND (0.110)	ND (0.084)	ND (0.100)	ND (0.064)	0.140 J	0.087 J	ND (0.110)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.120)	ND (0.068)	ND (0.060)	ND (0.056)	ND (0.042)	ND (0.051)	ND (0.032)	ND (0.120)	ND (0.053)	ND (0.055)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.120)	ND (0.068)	ND (0.060)	ND (0.056)	ND (0.042)	ND (0.051)	0.059 J	ND (0.120)	ND (0.053)	ND (0.055)
8260B	Acetone	mg/Kg	88	88	ND (1.2)	ND (0.680)	ND (0.600)	ND (0.560)	ND (0.420)	ND (0.510)	0.260 J	0.670 B QL	ND (0.530)	ND (0.550)
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	ND (0.012)	ND (0.0064)	ND (0.0057)	ND (0.0052)	ND (0.0039)	ND (0.0048)	ND (0.0030)	0.120 J	ND (0.0050)	ND (0.0052)
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	ND (0.150)	ND (0.085)	ND (0.075)	ND (0.070)	ND (0.052)	ND (0.064)	ND (0.040)	ND (0.150)	ND (0.066)	ND (0.069)
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	ND (0.012)	ND (0.0064)	ND (0.0057)	ND (0.0052)	ND (0.0039)	ND (0.0048)	ND (0.0030)	ND (0.011)	ND (0.0050)	ND (0.0052)
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.150)	ND (0.085)	ND (0.075)	ND (0.070)	ND (0.052)	ND (0.064)	ND (0.040)	ND (0.150)	ND (0.066)	ND (0.069)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.150)	ND (0.085)	ND (0.075)	ND (0.070)	ND (0.052)	ND (0.064)	ND (0.040)	ND (0.150)	ND (0.066)	ND (0.069)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.012)	ND (0.0064)	ND (0.0057)	ND (0.0052)	ND (0.0039)	ND (0.0048)	ND (0.0030)	ND (0.011)	ND (0.0050)	ND (0.0052)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.011 J B	0.0043 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	0.034 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.0070 J	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.0024 J B	0.011 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**ND (0.061)**	**ND (0.034)**	**ND (0.030)**	**ND (0.028)**	**ND (0.021)**	**ND (0.026)**	**8.6**	**ND (0.059)**	**ND (0.026)**	**ND (0.028)**
8260B	Naphthalene	mg/Kg	120 [1]	NA	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	**0.020 J**	0.025 J B	ND (0.026)	ND (0.028)
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.017 J B	0.0068 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.019 J B	0.0030 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.028 J B	0.0043 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.012 J B	0.0058 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.0097 J B	0.0044 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	0.0041 J	ND (0.030)	ND (0.013)	ND (0.014)
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	0.0049 J	0.011 QH B	ND (0.013)	ND (0.014)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	ND (0.012)	ND (0.0064)	ND (0.0057)	ND (0.0052)	ND (0.0039)	ND (0.0048)	ND (0.0030)	0.020 QH	ND (0.0050)	ND (0.0052)
8260B	Toluene	mg/Kg	NA	6.5 [2]	0.013 J B	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	0.0062 J	0.0043	ND (0.030)	ND (0.013)	ND (0.014)
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (0.016)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.031)	ND (0.017)	ND (0.015)	ND (0.014)	ND (0.010)	ND (0.013)	ND (0.0080)	ND (0.030)	ND (0.013)	ND (0.014)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	**ND (0.031)**	ND (0.017)	ND (0.015)	ND (0.014)	0.013 J	ND (0.013)	ND (0.0080)	**11**	ND (0.013)	ND (0.014)
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.061)	ND (0.034)	ND (0.030)	ND (0.028)	ND (0.021)	ND (0.026)	ND (16)	ND (0.059)	ND (0.026)	ND (0.028)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.031)**	**ND (0.017)**	**ND (0.015)**	**ND (0.014) QH**	**ND (0.010)**	**ND (0.013)**	**ND (0.0080)**	**ND (0.030)**	**ND (0.013)**	ND (0.014)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS027[D]	14NC10SS028	14NC10SS029	14NC10SS030	14NC10SS031	14NC10SS032	14NC10SS033	TB081114-01	14NC10SS034	14NC10SS035
				Laboratory ID **	580-44911-4	580-44911-5	580-44911-6	580-44911-7	580-44911-8	580-44911-9	580-44911-10	580-44911-11	1143921001	1143921002
				Location ID	10SS027	10SS028	10SS029	10SS030	10SS031	10SS032	10SS033	Trip Blank	10SS034	10SS035
				Collection Date	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/10/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	(Sidewall) SGS ID for PAHs+ PCBs 143700004	(Sidewall) SGS ID for PAHs+ PCBs 143700005	(Floor)SGS ID for PAHs+ PCBs 143700006	(Sidewall) SGS ID for PAHs+ PCBs 143700007	(Floor) SGS ID for PAHs+ PCBs 143700008	(Sidewall) SGS ID for PAHs+ PCBs 143700011	(Sidewall) SGS ID for PAHs+ PCBs 143700012		Floor	Sidewall
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0457)	ND (0.0915)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.130)	ND (0.073)	ND (0.120)	0.026 J	ND (0.110)	ND (0.120)	0.099 J	ND (0.064)	ND (0.4565)	ND (0.0915)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.063)	ND (0.037)	ND (0.059)	ND (0.035)	ND (0.053)	ND (0.058)	ND (0.060)	ND (0.032)	ND (0.4565)	ND (0.0915)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.063)	ND (0.037)	ND (0.059)	ND (0.035)	ND (0.053)	ND (0.058)	ND (0.060)	0.025 J B	ND (0.4565)	ND (0.0915)
8260B	Acetone	mg/Kg	88	88	ND (0.630)	ND (0.370)	ND (0.590)	ND (0.350)	ND (0.530)	ND (0.580)	ND (0.600)	0.450 QL	--	--
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0229)	ND (0.0915)
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	ND (0.0059)	ND (0.0034)	ND (0.0055)	ND (0.0032)	ND (0.0050)	ND (0.0055)	ND (0.0057)	ND (0.0030)	**ND (0.0457)**	**ND (0.0915)**
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	ND (0.079)	ND (0.046)	ND (.073)	ND (0.043)	ND (0.067)	ND (0.073)	ND (0.075)	ND (0.040)	ND (0.3655)	**ND (0.730)**
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.1825)	ND (0.3655)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0229)	**ND (0.0457)**
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	ND (0.0059)	ND (0.0034)	ND (0.0055)	ND (0.0032)	ND (0.0050)	ND (0.0055)	ND (0.0057)	ND (0.0030)	**ND (0.0457)**	**ND (0.0915)**
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.079)	ND (0.046)	ND (.073)	ND (0.043)	ND (0.067)	ND (0.073)	ND (0.075)	ND (0.040)	ND (0.3655)	ND (0.730)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.079)	ND (0.046)	ND (.073)	ND (0.043)	ND (0.067)	ND (0.073)	ND (0.075)	ND (0.040)	ND (0.0457)	ND (0.0915)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0457)	ND (0.0915)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.0059)	ND (0.0034)	ND (0.0055)	ND (0.0032)	ND (0.0050)	ND (0.0055)	ND (0.0057)	ND (0.0030)	ND (0.0457)	ND (0.0915)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0915)	ND (0.183)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0915)	**ND (0.183)**
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0915)	ND (0.183)
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.1825)	ND (0.3655)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**0.041 J B**	**ND (0.018)**	**0.055 B**	**0.044 B**	**0.078 J B**	**0.084 B**	**0.075 B**	**4.9**	**ND (0.1825)**	**ND (0.3655)**
8260B	Naphthalene	mg/Kg	120 [1]	NA	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	0.015 J B	ND (0.0915)	ND (0.183)
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	0.0033 J	ND (0.0457)	ND (0.0915)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	ND (0.0059)	ND (0.0034)	ND (0.0055)	ND (0.0032)	ND (0.0050)	ND (0.0055)	ND (0.0057)	ND (0.0030)	ND (0.0229)	**ND (0.0457)**
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	0.0068 J B	ND (0.015)	0.0064 J B	0.011 J	ND (0.0457)	ND (0.0915)
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0457)	ND (0.0915)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	ND (0.0457)	ND (0.0915)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	ND (0.016)	ND (0.0091)	ND (0.015)	ND (0.0087)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.0080)	**ND (0.0229)**	**0.0311 J**
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.032)	ND (0.018)	ND (0.029)	ND (0.017)	ND (0.027)	ND (0.029)	ND (0.030)	ND (0.016)	ND (0.0915)	ND (0.183)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.016)**	**ND (0.0091)**	**ND (0.015)**	**ND (0.0087)**	**ND (0.013)**	**ND (0.015)**	**ND (0.015)**	**ND (0.0080)**	**ND (0.0457)**	**ND (0.0915)**

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS036[D]	14NC10SS037	14NC10SS038	14NC10SS039	14NC10SS040
				Laboratory ID **	1143921003	1143921004	1143921005	1143921006	1143921009
				Location ID	10SS036	10SS037	10SS038	10SS039	10SS040
				Collection Date	8/18/2014	8/18/2014	8/18/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Floor	Sidewall	Sidewall
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.1075)	ND (0.320)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.1075)	ND (0.320)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.1075)	ND (0.320)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Acetone	mg/Kg	88	88	--	--	--	--	--
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.054)	ND (0.0161)	ND (0.0149)	ND (0.0272)	ND (0.0294)
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	**ND (0.1075)**	ND (0.0321)	ND (0.0297)	**ND (0.0545)**	**ND (0.0585)**
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	**ND (0.860)**	**ND (0.256)**	**ND (0.238)**	**ND (0.436)**	**ND (0.470)**
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.430)	ND (0.128)	ND (0.119)	ND (0.218)	ND (0.234)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	**ND (0.054)**	ND (0.0161)	ND (0.0149)	**ND (0.0272)**	**ND (0.0294)**
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	**ND (0.1075)**	**ND (0.0321)**	ND (0.0297)	**ND (0.0545)**	**ND (0.0585)**
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.860)	ND (0.256)	ND (0.238)	ND (0.436)	ND (0.470)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.215)	ND (0.064)	ND (0.0595)	ND (0.109)	ND (0.117)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.102 J	ND (0.0585)
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	**ND (0.215)**	ND (0.064)	ND (0.0595)	ND (0.109)	ND (0.117)
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.153	ND (0.0585)
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.215)	ND (0.064)	ND (0.0595)	0.415	ND (0.117)
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.430)	ND (0.128)	ND (0.119)	ND (0.218)	ND (0.234)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**ND (0.430)**	**ND (0.128)**	**ND (0.119)**	**ND (0.218)**	**ND (0.234)**
8260B	Naphthalene	mg/Kg	120 [1]	NA	ND (0.215)	ND (0.064)	ND (0.0595)	0.109 J	ND (0.117)
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.853	ND (0.0585)
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.465	ND (0.0585)
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.423	ND (0.0585)
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.668	ND (0.0585)
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.514	ND (0.0585)
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.0740 J	ND (0.0585)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	**ND (0.054)**	ND (0.0161)	ND (0.0149)	ND (0.0272)	ND (0.0294)
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	0.0359 J	ND (0.0585)
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.1075)	ND (0.0321)	ND (0.0297)	ND (0.0545)	ND (0.0585)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	**ND (0.054)**	ND (0.0161)	ND (0.0149)	**ND (0.0272)**	**0.228**
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.215)	ND (0.064)	ND (0.0595)	ND (0.109)	ND (0.117)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.1075)**	**ND (0.0321)**	**ND (0.0297)**	**ND (0.0545)**	**ND (0.0585)**

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	TB081814-1	14NC10SS041	14NC10SS042[D]	14NC10SS043	14NC10SS044	TB082214-1	14NC10SS045	14NC10SS046[D]	14NC10SS047	Trip Blank 093014-01
				Laboratory ID **	1143921010	580-45105-1	580-45105-2	580-45105-3	580-45105-4	580-45105-5	580-45739-1	580-45739-2	580-45739-3	580-45739-4
				Location ID	FieldQC	10SS041	10SS042	10SS043	10SS044	Trip Blank	10SS045	10SS046	10SS047	Trip Blank
				Collection Date	8/18/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**		Sidewall	Sidewall	Floor	Sidewall		Sidewall	Sidewall	Floor	
8260B	1,3-Dichloropropane	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	1,4-Dichlorobenzene	mg/Kg	na	0.640 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	2,2-Dichloropropane	mg/Kg	NS	NS	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	2-Butanone (MEK)	mg/Kg	na	59 [2]	ND (0.0125)	ND (0.066)	ND (0.085)	ND (0.077)	ND (0.094)	ND (0.064)	ND (0.290)	ND (0.240)	ND (0.064)	ND (0.064)
8260B	2-Chlorotoluene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	2-Hexanone	mg/Kg	NS	NS	ND (0.0125)	ND (0.033)	ND (0.042)	ND (0.038)	ND (0.047)	ND (0.032)	ND (0.140)	ND (0.120)	ND (0.032)	ND (0.032)
8260B	4-Chlorotoluene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	4-Methyl-2-pentanone (MIBK)	mg/Kg	8.1 [2]	8.1 [2]	ND (0.0125)	ND (0.033)	ND (0.420)	ND (0.038)	ND (0.047)	ND (0.032)	ND (0.140)	ND (0.120)	ND (0.032)	ND (0.032)
8260B	Acetone	mg/Kg	88	88	--	ND (0.330)	ND (0.420)	ND (0.380)	ND (0.470)	ND (0.320)	ND (1.4)	ND (1.2)	ND (0.320)	ND (0.320)
8260B	Benzene	mg/Kg	2 [1]	NA	ND (0.00625)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Bromobenzene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Bromochloromethane	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Bromodichloromethane	mg/Kg	NA	0.044 [2]	ND (0.0125)	ND (0.0031)	ND (0.0040)	ND (0.0036)	ND (0.0044)	ND (0.0030)	ND (0.013)	ND (0.011)	ND (0.0030)	ND (0.0030)
8260B	Bromoform	mg/Kg	NA	0.340 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Bromomethane	mg/Kg	NA	0.160 [2]	ND (0.100)	ND (0.041)	ND (0.053)	ND (0.048)	ND (0.059)	ND (0.040)	**ND (0.180)**	ND (0.150)	ND (0.040)	ND (0.040)
8260B	Carbon disulfide	mg/Kg	NA	12 [2]	ND (0.050)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Carbon tetrachloride	mg/Kg	NA	0.023 [2]	ND (0.00625)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	Chlorobenzene	mg/Kg	NA	0.630 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Chlorodibromomethane	mg/Kg	NA	0.032 [2]	ND (0.0125)	ND (0.0031)	ND (0.0040)	ND (0.0036)	ND (0.0044)	ND (0.0030)	ND (0.013)	ND (0.011)	ND (0.0030)	ND (0.0030)
8260B	Chloroethane	mg/Kg	NA	580 [2]	ND (0.100)	ND (0.041)	ND (0.053)	ND (0.048)	ND (0.059)	ND (0.040)	ND (0.180)	ND (0.150)	ND (0.0030)	ND (0.040)
8260B	Chloroform	mg/Kg	NA	0.460 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Chloromethane	mg/Kg	NA	0.210 [2]	ND (0.0125)	ND (0.041)	ND (0.053)	ND (0.048)	ND (0.059)	ND (0.040)	ND (0.180)	ND (0.150)	ND (0.0030)	ND (0.040)
8260B	cis-1,2-Dichloroethene	mg/Kg	NA	0.240 [2]	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	cis-1,3-Dichloropropene	mg/Kg	NA	NS	ND (0.0125)	ND (0.0031)	ND (0.0040)	ND (0.0036)	ND (0.0044)	ND (0.0030)	ND (0.013)	ND (0.011)	ND (0.0030)	ND (0.0030)
8260B	Dibromomethane	mg/Kg	NA	1.1 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Dichlorodifluoromethane	mg/Kg	NA	140 [2]	ND (0.025)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	Ethylbenzene	mg/Kg	NA	6.90 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Hexachlorobutadiene	mg/Kg	NA	0.120 [2]	ND (0.025)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	Isopropylbenzene	mg/Kg	NA	5.1 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.011)	ND (0.0080)	ND (0.0080)
8260B	m,p-Xylene	mg/Kg	NS	NS	ND (0.025)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	0.014 J	ND (0.0080)	ND (0.0080)
8260B	Methyl tert-butyl ether	mg/Kg	NA	1.3 [2]	ND (0.050)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.16)	ND (0.016)
8260B	Methylene Chloride	mg/Kg	NA	0.016 [2]	**3.33**	**ND (0.017)**	**ND (0.021)**	**ND (0.019)**	**ND (0.024)**	**3.0 B**	**ND (0.072)**	**ND (0.060)**	**ND (0.016)**	**2.3**
8260B	Naphthalene	mg/Kg	120 [1]	NA	ND (0.025)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	n-Butylbenzene	mg/Kg	NA	15 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	N-Propylbenzene	mg/Kg	NA	15 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	o-Xylene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	p-Isopropyltoluene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	sec-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Styrene	mg/Kg	NA	0.960 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	tert-Butylbenzene	mg/Kg	NA	12 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Tetrachloroethene	mg/Kg	NA	0.024 [2]	ND (0.00625)	ND (0.0031)	ND (0.0040)	ND (0.0096)	ND (0.0044)	ND (0.0030)	ND (0.013)	ND (0.011)	ND (0.0030)	ND (0.0030)
8260B	Toluene	mg/Kg	NA	6.5 [2]	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	0.0090 J B	0.018 J B	0.025 J B	ND (0.0080)	0.033 J B
8260B	trans-1,2-Dichloroethene	mg/Kg	NA	0.370 [2]	ND (0.0125)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	trans-1,3-Dichloropropene	mg/Kg	NS	NS	ND (0.0125)	ND (0.0083)	ND (0.011)	ND (0.0096)	ND (0.012)	ND (0.0080)	ND (0.036)	ND (0.030)	ND (0.0080)	ND (0.0080)
8260B	Trichloroethene	mg/Kg	NA	0.020 [2]	ND (0.00625)	**0.047**	**0.032**	0.0091 J	0.0068 J	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)
8260B	Trichlorofluoromethane	mg/Kg	NA	8.6 [2]	ND (0.025)	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.024)	ND (0.016)	ND (0.072)	ND (0.060)	ND (0.016)	ND (0.016)
8260B	Vinyl chloride	mg/Kg	NA	0.0085 [2]	**ND (0.0125)**	ND (0.0083)	**ND (0.011)**	**ND (0.0096)**	**ND (0.012)**	ND (0.0080)	**ND (0.036)**	**ND (0.030)**	ND (0.0080)	ND (0.0080)

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS001	14NC10SS002	14NC10SS003	14NC10SS004[D]	14NC10SS005	14NC10SS006	14NC10SS007	TB AV00281
				Laboratory ID **	580-44702-1	580-44702-2	580-44702-3	580-44702-4	580-44702-5	580-44702-6	NA	580-44702-7
				Location ID	10SS001	10SS002	10SS003	10SS004	10SS005	10SS006	10SS007	Trip Blank
				Collection Date	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014	7/27/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	Exploratory sample approx. 1 foot deep ; sample on floor	
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	ND (0.0026)	0.018	0.0062	0.0078	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	ND (0.0026)	0.058	0.023	0.021	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	ND (0.0026)	0.022	0.02	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	0.019	0.0079	0.029	ND (0.0026)	ND (0.0026)	0.028	--	--
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	0.220 QL	ND (0.0038)	--	--
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	0.067	ND (0.0026)	0.12	0.12	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	ND (0.0026)	ND (0.0026)	0.0093	0.007	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	0.3	ND (0.0038)	--	--
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026) QL	ND (0.0038)	--	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	ND (0.0026)	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	ND (0.0026)	0.043	0.019	0.017	ND (0.0026)	ND (0.0038)	--	--
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	0.063	ND (0.0026)	0.11	ND (0.0026)	0.17	0.12	--	--
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	ND (0.0026)	ND (0.0026)	ND (0.0027)	0.077	ND (0.0026)	ND (0.0038)	--	--
AK101	GRO	mg/Kg	NA	300 [2]	ND (2.6)	8.2 B	11 B	8.0 B	21 B	26	--	23 B
				Sample ID **	14NC10SS001	14NC10SS002	14NC10SS003	14NC10SS004[D]	14NC10SS005	14NC10SS006	14NC10SS007	NA
				Laboratory ID **	580-44697-5	580-44697-6	580-44697-7	580-44697-8	580-44697-9	580-44697-10	580-44697-11	NA
AK102	DRO	mg/Kg	9200 [1]	NA	5900 QH	5200	8500	7200	**15000**	**15000**	**51000**	--
AK103	RRO	mg/Kg	9200 [1]	NA	1200	**18000 QH**	2600	2000	5600 QH	**35000**	**24000 QH**	--

Notes:

**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work orders.

[1] Cleanup Levels Established in 2009 Decision Document

[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

[D]Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Dup = Sample is a field duplicate of previous sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS008	14NC10SS009[D]	14NC10SS010	14NC10SS011	14NC10SS012	14NC10SS013	14NC10SS014	14NC10SS015[D]	14NC10SS016	14NC10SS017
				Laboratory ID **	580-44802-1	580-44802-2	580-44802-3	580-44802-4	580-44802-5	580-44802-6	580-44802-7	580-44802-8	580-44802-9	580-44802-10
				Location ID	10SS008	10SS009	10SS010	10SS011	10SS012	10SS013	10SS014	10SS015	10SS016	10SS017
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Floor	Floor	Floor	Floor	Floor	Floor	Sidewall	Sidewall	Sidewall	Sidewall
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	ND (0.0028)	0.0035 J	0.0020 J	ND (0.0029)	ND (0.0027)	0.014	ND (0.0026)	0.0036 J	0.021	ND (0.0027)
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	ND (0.0028)	0.0046 J	ND (0.0028)	ND (0.0029)	ND (0.0027)	0.023	ND (0.0026)	ND (0.0028)	0.018	ND (0.0027)
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	0.017
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	0.0083	0.03	0.027
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	0.0037 J	ND (0.0026)	0.014
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	ND (0.0027)
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	0.0031 J	ND (0.0027)
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	0.014	0.017
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	0.008
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	ND (0.0027)
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	0.014	0.018	0.0078 QN	0.023 QN	0.17	0.23
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	0.0039 J	ND (0.0027)
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	0.0017 J M	ND (0.0029)	ND (0.0028)	ND (0.0029)	0.031	ND (0.0028)	0.0034 J	0.0044 J	ND (0.0026)	0.015
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	ND (0.0027)
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	ND (0.0028)	ND (0.0026)	ND (0.0028)	ND (0.0026)	0.0068
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0027)	0.072	ND (0.0026)	ND (0.0028)	0.04	ND (0.0027)
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	0.012	0.0053 J	0.0034 J	ND (0.0029)	0.028	0.022	0.007 QN	0.026 QN	0.087	0.16
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	0.0044 J B	0.0039 J B	0.0041 J B	0.0035 J B	0.0066 B	0.010 B	0.0067 B	0.021 B	0.11	0.058
AK101	GRO	mg/Kg	NA	300 [2]	ND (2.6)	ND (4.0)	ND (2.3)	ND (2.1)	9.4 QN	170 QN	7.2 QN	15 QN	94 QN	4.2 J QN
				Sample ID **	14NC10SS008	14NC10SS009[D]	14NC10SS010	14NC10SS011	14NC10SS012	14NC10SS013	14NC10SS014	14NC10SS015[D]	14NC10SS016	14NC10SS017
				Laboratory ID **	580-44799-1	580-44799-2	580-44799-3	580-44799-4	580-44799-5	580-44799-6	580-44799-7	580-44799-8	580-44799-9	580-44799-10
AK102	DRO	mg/Kg	9200 [1]	NA	410	320	610	32	2500	1600	440	730	5400	**12000**
AK103	RRO	mg/Kg	9200 [1]	NA	530	390	420	ND (17)	1500	950	370	530	3000	6700

Notes:

**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work or

[1] Cleanup Levels Established in 2009 Decision Document

[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

[D]Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Dup = Sample is a field duplicate of previous sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS018	14NC10SS019	14NC10SS020	14NC10SS021	14NC10SS022	14NC10SS023	TB080414	14NC10SS024	14NC10SS025	14NC10SS026
				Laboratory ID **	580-44802-11	580-44802-12	580-44802-13	580-44802-14	580-44802-15	580-44802-16	580-44802-17	580-44911-1	580-44911-2	580-44911-3
				Location ID	10SS018	10SS019	10SS020	10SS021	10SS022	10SS023	TB080414	10SS024	10SS025	10SS026
				Collection Date	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/4/2014	8/8/2014	8/8/2014	8/8/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Sidewall	Sidewall	Sidewall	Floor		(Floor) SGS ID for PAHs+ PCBs 143700001	(Sidewall) SGS ID for PAHs+ PCBs 143700002	(Sidewall) SGS ID for PAHs+ PCBs 143700003
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.031 J	0.025	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	0.0029 J	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.089	0.056	--	ND (0.0207)	ND (0.01325)	0.00297 J QL
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	0.0078	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.036 J	0.014	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	ND (0.0032)	0.0019 J	ND (0.0028)	ND (0.0027)	0.029 J	0.0063	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	0.0023 J	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	ND (0.0032)	ND (0.0029)	0.025	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.045 J	0.0048 J	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	0.011	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.19	0.024	--	ND (0.0207)	0.0371 QH	0.010 QL
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	0.0031 J	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	0.0028 J	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.020 J	0.0017 J	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	ND (0.026)	ND (0.0027)	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	ND (0.0032)	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.065	0.037	--	ND (0.0207)	ND (0.01325)	0.00211 J QL
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	0.035	0.0030 J	0.0047 J	ND (0.0027)	0.085	0.011	--	ND (0.0207)	ND (0.01325)	ND (0.00273) QL
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	0.0067 B	ND (0.0029)	ND (0.0028)	ND (0.0027)	0.2	0.015	--	.0382 J	ND (0.01325)	ND (0.00273) QL
AK101	GRO	mg/Kg	NA	300 [2]	ND (7.7)	ND (4.3)	ND (3.8)	ND (3.5)	ND (2.6)	2.7 J QN	8.3 QN	ND (7.4)	ND (3.3)	ND (3.4)
				Sample ID **	14NC10SS018	14NC10SS019	14NC10SS020	14NC10SS021	14NC10SS022	14NC10SS023	NA	14NC10SS024	14NC10SS025	14NC10SS026
				Laboratory ID **	580-44799-11	580-44799-12	580-44799-13	580-44799-14	580-44799-15	580-44799-16	NA	580-44876-1	580-44876-2	580-44876-3
AK102	DRO	mg/Kg	9200 [1]	NA	1600	140	3200	11 J	8400	3800	--	87	1600	1900
AK103	RRO	mg/Kg	9200 [1]	NA	850	150	**9300**	34 J	**12000**	**13000**	--	260	2000	660

Notes:
**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work or
[1] Cleanup Levels Established in 2009 Decision Document
[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).
[D]Sample is a field duplicate of preceding sample.
Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]
Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]
Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias
Field Dup = Sample is a field duplicate of previous sample.
J = Result is an estimate
ND = Result is non-detect with Limit of Detection (LOD) in parentheses
QH = Quality issue with potential high bias
QL = Quality issue with potential low bias

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS027[D]	14NC10SS028	14NC10SS029	14NC10SS030	14NC10SS031	14NC10SS032	14NC10SS033	TB081114-01	14NC10SS034	14NC10SS035
				Laboratory ID **	580-44911-4	580-44911-5	580-44911-6	580-44911-7	580-44911-8	580-44911-9	580-44911-10	580-44911-11	1143921001	1143921002
				Location ID	10SS027	10SS028	10SS029	10SS030	10SS031	10SS032	10SS033	Trip Blank	10SS034	10SS035
				Collection Date	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/10/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	(Sidewall) SGS ID for PAHs+ PCBs 143700004	(Sidewall) SGS ID for PAHs+ PCBs 143700005	(Floor)SGS ID for PAHs+ PCBs 143700006	(Sidewall) SGS ID for PAHs+ PCBs 143700007	(Floor) SGS ID for PAHs+ PCBs 143700008	(Sidewall) SGS ID for PAHs+ PCBs 143700011	(Sidewall) SGS ID for PAHs+ PCBs 143700012		Floor	Sidewall
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	0.00313 J	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QH	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QH	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QL	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QL	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QL	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QL	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QL	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	0.00673	ND (0.00284)	ND (0.00293)	ND (0.00287)	0.104 QL	ND (0.01455)	0.229 QH	--	--	--
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QH	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425) QH	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	0.00269 J	ND (0.00284)	ND (0.00293)	ND (0.00287)	ND (0.01425)	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	ND (0.00272)	0.00824	ND (0.00293)	ND (0.00287)	ND (0.01425) QH	ND (0.01455)	ND (0.0565)	--	--	--
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	ND (0.00272)	ND (0.00284)	ND (0.00293)	ND (0.00287)	0.199 QL	ND (0.01455)	0.140 QH	--	--	--
AK101	GRO	mg/Kg	NA	300 [2]	ND (3.9)	ND (2.3)	ND (3.7)	ND (2.2)	ND (3.3) QL	ND (3.6)	ND (3.8)	3.8 J	--	--
				Sample ID **	14NC10SS027[D]	14NC10SS028	14NC10SS029	14NC10SS030	14NC10SS031	14NC10SS032	14NC10SS033	TB081114-01	14NC10SS034	14NC10SS035
				Laboratory ID **	580-44876-4	580-44876-5	580-44876-6	580-44876-7	580-44876-8	580-44876-9	580-44876-10	580-44911-11	1143921001	1143921002
AK102	DRO	mg/Kg	9200 [1]	NA	1200	440	29	11 J	1300 QL	30	3100	--	--	--
AK103	RRO	mg/Kg	9200 [1]	NA	390	710	28 J	ND (16)	1500 QL	200	1800	--	--	--

Notes:

**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work or

[1] Cleanup Levels Established in 2009 Decision Document

[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

[D]Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Dup = Sample is a field duplicate of previous sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	14NC10SS036[D]	14NC10SS037	14NC10SS038	14NC10SS039	14NC10SS040
				Laboratory ID **	1143921003	1143921004	1143921005	1143921006	1143921009
				Location ID	10SS036	10SS037	10SS038	10SS039	10SS040
				Collection Date	8/18/2014	8/18/2014	8/18/2014	8/18/2014	8/18/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**	Sidewall	Sidewall	Floor	Sidewall	Sidewall
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	--	--	--	--	--
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	--	--	--	--	--
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	--	--	--	--	--
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	--	--	--	--	--
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	--	--	--	--	--
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	--	--	--	--	--
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	--	--	--	--	--
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	--	--	--	--	--
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	--	--	--	--	--
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	--	--	--	--	--
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	--	--	--	--	--
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	--	--	--	--	--
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	--	--	--	--	--
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	--	--	--	--	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	--	--	--	--	--
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	--	--	--	--	--
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	--	--	--	--	--
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	--	--	--	--	--
AK101	GRO	mg/Kg	NA	300 [2]	--	--	--	--	--
				Sample ID **	14NC10SS036[D]	14NC10SS037	14NC10SS038	14NC10SS039	14NC10SS040
				Laboratory ID **	1143921003	1143921004	1143921005	1143921006	1143921009
AK102	DRO	mg/Kg	9200 [1]	NA	--	--	--	--	--
AK103	RRO	mg/Kg	9200 [1]	NA	--	--	--	--	--

Notes:

**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work or

[1] Cleanup Levels Established in 2009 Decision Document

[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

[D]Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]

Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]

Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Dup = Sample is a field duplicate of previous sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QH = Quality issue with potential high bias

QL = Quality issue with potential low bias

Table H8 Site 10 Soil Sample Results (continued)

				Sample ID **	TB081814-1	14NC10SS041	14NC10SS042[D]	14NC10SS043	14NC10SS044	TB082214-1	14NC10SS045	14NC10SS046[D]	14NC10SS047	Trip Blank 093014-01
				Laboratory ID **	1143921010	580-45105-1	580-45105-2	580-45105-3	580-45105-4	580-45105-5	580-45739-1	580-45739-2	580-45739-3	580-45739-4
				Location ID	FieldQC	10SS041	10SS042	10SS043	10SS044	Trip Blank	10SS045	10SS046	10SS047	Trip Blank
				Collection Date	8/18/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	8/22/2014	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evaluation Criteria[2]**		Sidewall	Sidewall	Floor	Sidewall		Sidewall	Sidewall	Floor	
8270C SIM	1-Methylnaphthalene	mg/Kg	NA	6.2 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	2-Methylnaphthalene	mg/Kg	NA	6.1 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Acenaphthene	mg/Kg	NA	180 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Acenaphthylene	mg/Kg	NA	180[2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Anthracene	mg/Kg	NA	3000 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Benzo[a]anthracene	mg/Kg	NA	3.6 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Benzo[a]pyrene	mg/Kg	NA	2.1 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Benzo[b]fluoranthene	mg/Kg	NA	12 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Benzo[g,h,i]perylene	mg/Kg	NA	38700 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Benzo[k]fluoranthene	mg/Kg	NA	120 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Chrysene	mg/Kg	NA	1.5 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Dibenz(a,h)anthracene	mg/Kg	NA	4 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Fluoranthene	mg/Kg	NA	1400 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Fluorene	mg/Kg	NA	220 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/Kg	NA	41 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Naphthalene	mg/Kg	120[1]	NA	--	--	--	--	--	--	--	--	--	--
8270C SIM	Phenanthrene	mg/Kg	NA	3000 [2]	--	--	--	--	--	--	--	--	--	--
8270C SIM	Pyrene	mg/Kg	NA	1000 [2]	--	--	--	--	--	--	--	--	--	--
AK101	GRO	mg/Kg	NA	300 [2]	--	--	--	--	--	--	--	--	--	--
				Sample ID **	TB081814-1	14NC10SS041	14NC10SS042[D]	14NC10SS043	14NC10SS044	TB082214-1	14NC10SS045	14NC10SS046[D]	14NC10SS047	Trip Blank 093014-01
				Laboratory ID **	1143921010	580-45105-1	580-45105-2	580-45105-3	580-45105-4	580-45105-5	580-45739-1	580-45739-2	580-45739-3	580-45739-4
AK102	DRO	mg/Kg	9200 [1]	NA	--	--	--	--	--	--	--	--	--	--
AK103	RRO	mg/Kg	9200 [1]	NA	--	--	--	--	--	--	--	--	--	--

Notes:
**Samples were collected simultaneously and submitted to the field lab and fixed lab under different work or
[1] Cleanup Levels Established in 2009 Decision Document
[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).
[D]Sample is a field duplicate of preceding sample.
Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels[2]
Bold-(Yellow box), Non-detect result exceeds ADEC Evaluation Criteria[1]
Bold-(Purple box), positive result exceeds ADEC Evaluation Criteria[1]

B = Analyte detected in a QC blank, sample result may have potential high bias
Field Dup = Sample is a field duplicate of previous sample.
J = Result is an estimate
ND = Result is non-detect with Limit of Detection (LOD) in parentheses
QH = Quality issue with potential high bias
QL = Quality issue with potential low bias

Table H9 Site 32 POL Soil Sample Results

			Sample ID	14NC32SS001	14NC32SS002	14NC32SS003[D]	14NC32SS004	14NC32SS001
			Laboratory ID	580-44697-1	580-44697-2	580-44697-3	580-44697-4	580-44835-1
			Location ID	32SS001	32SS002	32SS003	32SS004	32SS001
			Collection Date	7/27/2014	7/27/2014	7/27/2014	7/27/2014	8/6/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**	Exploratory	Exploratory, Excavated and Removed	Exploratory, Excavated and Removed	Exploratory	Sidewall
AK102	DRO	mg/Kg	9200[1]	830 QL	**14000**	**14000**	570	5600
AK103	RRO	mg/Kg	9200[1]	270	ND (160)	ND (160)	2100	44 J

			Sample ID	14NC32SS002	14NC32SS003[D]	14NC32SS004	14NC32SS005	14NC32SS010
			Laboratory ID	580-44835-2	580-44835-3	580-44835-4	580-44835-5	580-44879-1
			Location ID	32SS002	32SS003	32SS004	32SS005	32SS010
			Collection Date	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/9/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**	SW, Excavated and Removed	SW, Excavated and Removed	Floor	Floor	Sidewall
AK102	DRO	mg/Kg	9200[1]	**18000**	**18000**	6800	5700	2600
AK103	RRO	mg/Kg	9200[1]	ND (87)	ND (90)	16 J	56	13 J

			Sample ID	14NC32SS011
			Laboratory ID	580-44879-2
			Location ID	32SS011
			Collection Date	8/9/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**	Sidewall
AK102	DRO	mg/Kg	9200[1]	6900
AK103	RRO	mg/Kg	9200[1]	94

Notes:

[1]Cleanup Level Established in 2009 Decision Document

[D]Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels

FL = Floor sample location

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

SW = Sidewall sample location

Table H10 Site 6 PCB sample Results

			Sample ID	14NC06SS01	14NC06SS02	14NC06SS03[D]	14NC06SS04	14NC06SS05
			Laboratory ID	580-44894-1	580-44894-2	580-44894-3	580-44894-4	580-44894-5
			Location ID	14NC06TP1	14NC06TP1	14NC06TP1	14NC06TP2	14NC06TP2
			Collection Date	8/6/2014	8/6/2014	8/6/2014	8/6/2014	8/6/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level**					
8082	PCB-1016	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1221	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1232	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1242	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1248	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1254	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)
8082	PCB-1260	mg/Kg	1 [1]	ND (.011)	ND (.011)	ND (.011)	ND (.011)	ND (.011)

Notes:

[1]Cleanup Level Established in 2009 Decision Document

[D]Sample is a field duplicate of preceding sample.

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

Table H11 Site 27 POL Sample Results

			Sample ID	14NC27SS01	14NC27SS02[D]
			Laboratory ID-DRO-RRO	580-44850-1	NA
			Laboratory ID-naphthalene	580-44895-1	580-44895-2
			Location ID	14NC27-01	14NC27-02
			Collection Date	8/7/2014	8/7/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**		
AK102	DRO	mg/Kg	9200 [1]	620	--
AK103	RRO	mg/Kg	9200 [1]	14 J	--
8270C SIM/DoD	Naphthalene	mg/Kg	120 [1]	26	33

Notes:

[1]Cleanup Level Established in 2009 Decision Document

[D]Sample is a field duplicate of preceding sample.

-- = Analysis not requested

J = Result is an estimate

mg/kg = milligrams per kilogram

Table H12 Site 21 Borings Sample Results

			Sample ID	14NC21SS001-1	14NC21SS001-2	14NC21SS001-3	14NC21SS002-1	14NC21SS002-2	14NC21SS002-3
			Laboratory ID	580-44007-1	580-44007-2	580-44007-3	580-44007-4	580-44007-5	580-44007-6
			Location ID	SS001-1	SS001-2	SS001-3	SS002-1	SS002-2	SS002-3
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	2	3.2	4.7	4.6 J	4.2	4.8

			Sample ID	14NC21SS003-1	14NC21SS003-2	14NC21SS003-3	14NC21SS004-1	14NC21SS004-2	14NC21SS004-3
			Laboratory ID	580-44007-7	580-44007-8	580-44007-9	580-44007-10	580-44007-11	580-44007-12
			Location ID	SS003-1	SS003-2	SS003-3	SS004-1	SS004-2	SS004-3
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	3.7	4.2	6	2.3	5.2	5.8

			Sample ID	14NC21SS005-1	14NC21SS005-2	14NC21SS005-3	14NC21SS005-4 [D]	14NC21SS006-1	14NC21SS006-2
			Laboratory ID	580-44007-13	580-44007-14	580-44007-15	580-44007-16	580-44007-17	580-44007-18
			Location ID	SS005-1	SS005-2	SS005-3	SS005-4	SS006-1	SS006-2
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	4.9	3.4	3.4	3.4	5.9	3.8

			Sample ID	14NC21SS006-3	14NC21SS007-1	14NC21SS007-2	14NC21SS007-3	14NC21SS008-1	14NC21SS008-2
			Laboratory ID	580-44007-19	580-44007-20	580-44007-21	580-44007-22	580-44007-23	580-44007-24
			Location ID	SS005-3	SS007-1	SS007-2	SS007-3	SS008-1	SS008-2
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	4.2	3	3.8	5.9	5	5.2

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[D]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H12 Site 21 Borings Sample Results (continued)

			Sample ID	14NC21SS008-3	14NC21SS008-4 [D]	14NC21SS009-1	14NC21SS009-2	14NC21SS009-3	14NC21SS010-1
			Laboratory ID	580-44007-25	580-44007-26	580-44007-27	580-44007-28	580-44007-29	580-44007-30
			Location ID	SS008-3	SS008-4	SS009-1	SS009-2	SS009-3	SS010-1
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	Analyte	Units	Cleanup Level[1]						
6020	Arsenic	mg/Kg	11	4.4	4.1	5.6	5.5	11	4

			Sample ID	14NC21SS010-2	14NC21SS010-3	14NC21SS010-4 [D]	14NC21SS011-1	14NC21SS011-2	14NC21SS011-3
			Laboratory ID	580-44007-31	580-44007-32	580-44007-33	580-44007-34	580-44007-35	580-44007-36
			Location ID	SS010-2	SS010-3	SS010-4	SS011-1	SS011-2	SS011-3
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	Analyte	Units	Cleanup Level[1]						
6020	Arsenic	mg/Kg	11	4.6	1.6	1.6	7.6	4.6	11

			Sample ID	14NC21SS012-1	14NC21SS012-2	14NC21SS012-3	14NC21SS013-1	14NC21SS013-2	14NC21SS013-3
			Laboratory ID	580-44007-37	580-44007-38	580-44007-39	580-44007-40	580-44007-41	580-44007-42
			Location ID	SS012-1	SS012-2	SS012-3	SS013-1	SS013-2	SS013-3
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	Analyte	Units	Cleanup Level[1]						
6020	Arsenic	mg/Kg	11	2.9	5	**12**	3.1	1.9	6.2

			Sample ID	14NC21SS014-1	14NC21SS014-2	14NC21SS014-3	14NC21SS015-1	14NC21SS015-4 [D]	14NC21SS015-2
			Laboratory ID	580-44007-43	580-44007-44	580-44007-45	580-44007-46	580-44007-49	580-44007-47
			Location ID	SS014-1	SS014-2	SS014-3	SS015-1	SS015-4	
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	Analyte	Units	Cleanup Level[1]						
6020	Arsenic	mg/Kg	11	1.5	1.9	3.5	2.1	2.3	**12**

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[D]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H12 Site 21 Borings Sample Results (continued)

			Sample ID	14NC21SS015-3	14NC21SS016-1	14NC21SS016-2	14NC21SS016-3	14NC21SS017-1	14NC21SS017-3
			Laboratory ID	580-44007-48	580-44007-50	580-44007-51	580-44007-52	580-44007-53	580-44007-55
			Location ID	SS015-3	SS016-1	SS016-2	SS016-3	SS017-1	SS017-3
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	9.5	4.5	3	2.6	3.2	7.8

			Sample ID	14NC21SS017-2	14NC21SS017-4 [D]	14NC21SS018-1	14NC21SS018-2	14NC21SS018-3	14NC21SS019-1
			Laboratory ID	580-44007-54	580-44007-56	580-44007-57	580-44007-58	580-44007-59	580-44007-60
			Location ID	SS017-2	SS017-4	SS018-1	SS018-2	SS018-3	SS019-1
			Collection Date	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014	
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	3.1	4.3	1.7	7.5	**17**	6.6

			Sample ID	14NC21SS019-3	14NC21SS019-2	14NC21SS019-4 [D]	14NC21SS020-1	14NC21SS020-2	14NC21SS020-3
			Laboratory ID	580-44007-62	580-44007-61	580-44007-63	580-44007-64	580-44007-65	580-44007-66
			Location ID	SS019-3	SS019-2	SS019-4	SS020-1	SS020-2	SS020-3
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	2.5	6.3	5.8	3.1	3.4	4.4

			Sample ID	14NC21SS021-1	14NC21SS021-2	14NC21SS021-3	14NC21SS022-1	14NC21SS022-2	14NC21SS022-3
			Laboratory ID	580-44007-67	580-44007-68	580-44007-69	580-44007-70	580-44007-71	580-44007-72
			Location ID	SS021-1	SS021-2	SS021-3	SSO22-1	SSO22-2	SSO22-3
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	7.6	3.1	5.2	4.3	2.5	4.6

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[D]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H12 Site 21 Borings Sample Results (continued)

			Sample ID	14NC21SS023-1	14NC21SS023-2	14NC21SS023-3	14NC21SS024-1	14NC21SS024-2	14NC21SS024-3
			Laboratory ID	580-44007-73	580-44007-74	580-44007-75	580-44007-76	580-44007-77	580-44007-78
			Location ID	SS023-1	SS023-2	SS023-3	SS024-1	SS024-1	SS024-1
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	**23**	**12**	6.9	11	10	**17**

			Sample ID	14NC21SS025-1	14NC21SS025-2	14NC21SS025-4 [D]	14NC21SS025-3	14NC21SS026-1	14NC21SS026-2
			Laboratory ID	580-44007-79	580-44007-80	580-44007-82	580-44007-81	580-44007-83	580-44007-84
			Location ID	SS025-1	SS025-2	SS025-4	SS025-3	SS026-1	SS026-2
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	6.2	6.1 QN	3.4 QN	6.2	5.3	3.3

			Sample ID	14NC21SS026-3	14NC21SS027-1	14NC21SS027-2	14NC21SS027-3	14NC21SS027-4 [D]	14NC21SS028-1
			Laboratory ID	580-44007-85	580-44007-86	580-44007-87	580-44007-88	580-44007-89	580-44007-90
			Location ID	SS026-3	SS027-1	SS027-2	SS027-3	SS027-4	SS028-1
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	5.3	2.2	2.4	5.3	5.4	3.7

			Sample ID	14NC21SS028-2	14NC21SS028-3	14NC21SS029-1	14NC21SS029-4 [D]	14NC21SS029-2	14NC21SS029-3
			Laboratory ID	580-44007-91	580-44007-92	580-44007-93	580-44007-96	580-44007-94	580-44007-95
			Location ID	SS028-2	SS028-3	SS029-1	SS029-4	SS029-2	SS029-3
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	4.3	4.5	5.3	5.1	3.3	3.6

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[D]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H12 Site 21 Borings Sample Results (continued)

			Sample ID	14NC21SS030-1	14NC21SS030-2	14NC21SS030-3	14NC21SS031-1	14NC21SS031-2	14NC21SS031-3
			Laboratory ID	580-44007-97	580-44007-98	580-44007-99	580-44007-100	580-44007-101	580-44007-102
			Location ID	SS030-1	SS030-2	SS030-3	SS031-1	SS031-2	SS031-3
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	8.2	3	3.5	4.5	5.1	3.5

			Sample ID	14NC21SS032-1	14NC21SS032-2	14NC21SS032-3	14NC21SS033-1	14NC21SS033-2	14NC21SS033-4 [D]
			Laboratory ID	580-44007-103	580-44007-104	580-44007-105	580-44007-106	580-44007-107	580-44007-109
			Location ID	SS032-1	SS032-2	SS032-3	SS033-1	SS033-2	SS033-4
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	6.8	5.8	3.9	5	2.7	2.5

			Sample ID	14NC21SS033-3	14NC21SS034-1	14NC21SS034-2	14NC21SS034-3	14NC21SS035-1	14NC21SS035-3
			Laboratory ID	580-44007-108	580-44007-110	580-44007-111	580-44007-112	580-44007-113	580-44007-115
			Location ID	SS033-3	SS034-1	SS034-2	SS034-3	SS035-1	SS035-3
			Collection Date	6/12/2014	6/12/2014	6/12/2014	6/12/2014	6/13/2014	6/13/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	2.7	4.8	6.1	6.3	5.8	6

			Sample ID	14NC21SS035-2	14NC21SS035-4 [D]	14NC21SS036-1	14NC21SS036-2	14NC21SS036-3	14NC21SS036-4 [D]
			Laboratory ID	580-44007-114	580-44007-116	580-44007-117	580-44007-118	580-44007-119	580-44007-120
			Location ID	SS035-2	SS035-4	SS036-1	SS036-2	SS036-3	SS036-4
			Collection Date	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	6.6	7.4	5.5	4.4	10	8.4

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[D]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H12 Site 21 Borings Sample Results (continued)

			Sample ID	14NC21SS037-1	14NC21SS037-2	14NC21SS037-3	14NC21SS038-1	14NC21SS038-2	14NC21SS038-3
			Laboratory ID	580-44007-121	580-44007-122	580-44007-123	580-44007-124	580-44007-125	580-44007-126
			Location ID	SS037-1	SS037-2	SS037-3	SS038-1	SS038-2	SS038-3
			Collection Date	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	4	5.2	8.3	8.4	5.8	5.7

			Sample ID	14NC21SS039-1	14NC21SS039-2	14NC21SS039-3	14NC21SS040-1	14NC21SS040-2	14NC21SS040-3
			Laboratory ID	580-44007-127	580-44007-128	580-44007-129	580-44007-130	580-44007-131	580-44007-132
			Location ID	SS039-1	SS039-2	SS039-3	SS040-1	SS040-2	SS040-3
			Collection Date	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014	6/13/2014
Specific Method	**Analyte**	**Units**	**Cleanup Level[1]**						
6020	Arsenic	mg/Kg	11	8	7.5	4.7	5.6	8.8	7.6

Notes:

[1] Cleanup Level Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

[b]Sample is a duplicate of the preceding sample

Field Dup = Result is a field duplicate of the previous sample

J = Result is an estimate

mg/Kg = milligrams per kilogram

QN = One or more quality parameters was out of control with no directional bias.

Table H13 Site 21 Soil Sample Results

			Sample ID	14NC21SS001	14NC21SS002	14NC21SS003[D]	14NC21SS004	14NC21SS005	14NC21SS006	14NC21SS007
			Laboratory ID	580-44891-4	580-44891-5	580-44891-6	580-44912-1	580-44912-2	580-44912-3	580-44912-4
			Location ID	21SS001	21SS002	21SS003	21SS004	21SS005	21SS006	21SS007
			Collection Date	8/7/2014	8/7/2014	8/7/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**							
6020	Arsenic	mg/Kg	11	3.7	5.8	5.3	**13**	5.2	3.3	7.6

			Sample ID	14NC21SS008	14NC21SS009	14NC21SS010	14NC21SS011	14NC21SS012	14NC21SS013	14NC21SS014
			Laboratory ID	580-44912-5	580-44912-6	580-44912-7	580-44912-8	580-44912-9	580-44912-10	580-44912-11
			Location ID	21SS008	21SS009	21SS010	21SS011	21SS012	21SS013	21SS014
			Collection Date	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**							
6020	Arsenic	mg/Kg	11	2.9	6.2	7.4	9.4	10	4.8	3.8

			Sample ID	14NC21SS015	14NC21SS016	14NC21SS017	14NC21SS018[D]	14NC21SS019	14NC21SS020	14NC21SS021
			Laboratory ID	580-44912-12	580-44912-13	580-44912-14	580-44912-15	580-44912-16	580-44912-17	580-44912-18
			Location ID	21SS015	21SS016	21SS017	21SS018	21SS019	21SS020	21SS021
			Collection Date	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014	8/10/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**							
6020	Arsenic	mg/Kg	11	10	3.4	9.1	7.4	3.6	2.5	4.5

Notes:

[1] Cleanup Level Established in 2009 Decision Document

[D] Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

Table H13 Site 21 Soil Sample Results (continued)

			Sample ID	14NC21SS022	14NC21SS023	14NC21SS024[D]	14NC21SS025	14NC21SS026	14NC21SS027	14NC21SS028[D]
			Laboratory ID	580-44912-19	580-44912-20	580-44912-21	580-45035-1	580-45035-2	580-45035-3	580-45035-4
			Location ID	21SS022	21SS023	21SS024	21SS025	21SS026	21SS027	21SS028
			Collection Date	8/10/2014	8/10/2014	8/11/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**							
6020	Arsenic	mg/Kg	11	5.8	2.1	3.1	5.9	6.6	6.9	6.5

			Sample ID	14NC21SS029	14NC21SS030	14NC21SS031	14NC21SS032	14NC21SS033	14NC21SS034	14NC21SS035
			Laboratory ID	580-45035-5	580-45035-6	580-45035-7	580-45035-8	580-45035-9	580-45035-10	580-45035-11
			Location ID	21SS029	21SS030	21SS031	21SS032	21SS033	21SS034	21SS035
			Collection Date	8/19/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**							
6020	Arsenic	mg/Kg	11	6.5	6.7	6.5	7.8	7.1	5.8	7.9

Notes:

[1] Cleanup Level Established in 2009 Decision Document

[D] Sample is a field duplicate of preceding sample.

Bold-(Orange box), positive result exceeds Decision Document cleanup criteria.[1]

Table H14 Site 21 Surface Water Results

			Sample ID	14NC21SW001	14NC21SW002[D]	14NC21SW003
			Laboratory ID	580-44891-1	580-44891-2	580-44891-3
			Location ID	21-SW-01	21-SW-02	21-SW-03
			Colleciton Date	8/7/2014	8/7/2014	8/7/2014
Analysis Method	**Analyte**	**Unit**	**Evaluation Criteria[1]**	Pre-Excavation	Pre-Excavation	Pre-Excavation
6020	Arsenic (Total)	mg/L	0.01	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Arsenic (Dissolved)	mg/L	0.01	ND (0.0040)	ND (0.0040)	ND (0.0040)

			Sample ID	14NC21SW004	14NC21SW005[D]	14NC21SW006
			Laboratory ID	580-44923-1	580-44923-2	580-44923-3
			Laboratory ID	580-45125-6*	580-45125-7*	580-44923-3
			Location ID	21-SW-04	21-SW-05	21-SW-06
			Colleciton Date	8/10/2014	8/10/2014	8/10/2014
Analysis Method	**Analyte**	**Unit**	**Evaluation Criteria[1]**	Mid Excavation	Mid Excavation	Mid Excavation
6020	Arsenic (Total)	mg/L	0.01	ND (0.0040)	0.0039 J	ND (0.0040)
6020	Arsenic (Dissolved)	mg/L	0.01	ND (0.0040)	ND (0.0040)	ND (0.0040)

			Sample ID	14NC21SW007	14NC21SW008[D]	14NC21SW009
			Laboratory ID	580-45125-8	580-45125-9	580-45125-10
			Location ID	21-SW-07	21-SW-08	21-SW-09
			Colleciton Date	8/24/2014	8/25/2014	8/24/2014
Analysis Method	**Analyte**	**Unit**	**Evaluation Criteria[1]**	Post Ecavation	Post Ecavation	Post Ecavation
6020	Arsenic (Total)	mg/L	0.01	ND (0.0040)	ND (0.0040)	ND (0.0040)
6020	Arsenic (Dissolved)	mg/L	0.01	ND (0.0040)	ND (0.0040)	ND (0.0040)

Notes:

* Total metals sample ID in work order 580-45125-1

[1] Cleanup Level Established in 2009 NE Cape Decision Document

[D] Sample is a field duplicate of preceding sample.

J = Result is an estimate

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

Table H15 Site 8 Water Sample Results

			Sample ID	14NC08SWA01	14NC08SWA02	14NC08SWA03[D]	Trip Blank 080414-1
			Laboratory ID	580-44975-1	580-44975-2	580-44975-3	580-44975-4
			Location ID	08SW01	08SW02	08SW03	Trip Blank
			Collection Date	8/12/2014	8/12/2014	8/12/2014	41863
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**				
8260B	Benzene	mg/L	NS	ND (0.00040)	ND (0.0020)	ND (0.0020)	ND (0.00040)
8260B	Ethylbenzene	mg/L	NS	ND (0.00040)	ND (0.0020)	ND (0.0020)	0.00015 J
8260B	m-Xylene & p-Xylene	mg/L	NS	ND (0.00040)	0.0013 J	0.0012 J	0.00021 J
8260B	o-Xylene	mg/L	NS	ND (0.00040)	0.0014 J	0.0015 J	0.00015 J
8260B	Toluene	mg/L	NS	ND (0.00040)	0.0021 J	0.0021 J	ND (0.00040)
Total Aromatic Hydrocarbons (TAH) Sum of BTEX[1]		mg/L	0.01	0.002	0.0088	0.0088	0.00131
8270C SIM	1-Methylnaphthalene	mg/L	NS	ND (0.000019)	0.0034 QN	0.0062 QN	--
8270C SIM	2-Methylnaphthalene	mg/L	NS	ND (0.000019)	0.0035 QN	0.0073 QN	--
8270C SIM	Acenaphthene	mg/L	NS	ND (0.000019)	ND (0.000076)	ND (0.00031)	--
8270C SIM	Acenaphthylene	mg/L	NS	ND (0.000019)	ND (0.000076)	ND (0.00031)	--
8270C SIM	Anthracene	mg/L	NS	ND (0.000019)	ND (0.000076)	ND (0.00031)	--
8270C SIM	Benzo[a]anthracene	mg/L	NS	ND (0.000019)	0.000085 J	ND (0.00031)	--
8270C SIM	Benzo[a]pyrene	mg/L	NS	ND (0.000019)	0.000065 J	ND (0.00031)	--
8270C SIM	Benzo[b]fluoranthene	mg/L	NS	ND (0.000039)	0.000081 J	ND (0.00061)	--
8270C SIM	Benzo[g,h,i]perylene	mg/L	NS	ND (0.000019)	0.000044 J	ND (0.00031)	--
8270C SIM	Benzo[k]fluoranthene	mg/L	NS	ND (0.000039)	0.000074 J	ND (0.00061)	--
8270C SIM	Chrysene	mg/L	NS	ND (0.000019)	0.00011 J	0.00014 J	--
8270C SIM	Dibenz(a,h)anthracene	mg/L	NS	ND (0.000039)	ND (0.00015)	ND (0.00061)	--
8270C SIM	Fluoranthene	mg/L	NS	ND (0.000019)	0.000042 J	0.00011 J	--
8270C SIM	Fluorene	mg/L	NS	ND (0.000019)	0.00050 QN	0.0011 QN	--
8270C SIM	Indeno[1,2,3-cd]pyrene	mg/L	NS	ND (0.000039)	ND (0.00015)	ND (0.00061)	--
8270C SIM	Naphthalene	mg/L	NS	ND (0.000019)	0.0016 QN	0.0038 QN	--
8270C SIM	Phenanthrene	mg/L	NS	ND (0.000019)	0.00033	0.00082 J	--
8270C SIM	Pyrene	mg/L	NS	ND (0.000019)	0.00012 J	0.00030 J	--
Total Aqueous Hydrocarbons (TAqH) Sum of BTEX+PAHs[1]		mg/L	0.015	0.00242	**0.0193 QN**	**0.0329 QN**	NA
AK101	GRO	mg/L	No Sheen[1]	ND (0.044)	0.084	0.078	0.050
AK102	DRO	mg/L	No Sheen[1]	0.031 J	1.6 QN	0.97 QN	--
AK103	RRO	mg/L	No Sheen[1]	0.039 J	0.45 QN	0.24 QN	--

Notes:

[1] Cleanup Levels Established in 2009 NE Cape Decision Document

Bold-(Orange box), positive result exceeds Decision Document Cleanup Levels

[D] Sample is a field duplicate of preceding sample.

-- = analysis not requested

J = Result is an estimate

NA = not applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

NS = not stated

QN = One or more quality parameters was out of control with no directional bias.

Table H16 MOC MI sample Results

				Sample ID	14NCMOCMI001	14NCMOCMI002	14NCMOCMI003	Trip Blank 081714-1
				Laboratory ID	580-45126-1	580-45126-2	580-45126-3	580-45126-4
				Location ID	MI28-001	MI28-002	MI28-003	Trip Blank
				Collection Date	8/17/2014	8/20/2014	8/22/2014	8/17/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evauation Criteria[2]**			Under the fuel containment	
8260B	Benzene	mg/Kg	2[1]	NA	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.0080)
8260B	Ethylbenzene	mg/Kg	NA	6.9[2]	ND (0.012)	ND (0.011)	ND (0.012)	0.072
8260B	m,p-Xylene	mg/Kg	NA	63[2]	ND (0.012)	0.0098 J	ND (0.012)	0.25
8260B	o-Xylene	mg/Kg	NA	63[2]	ND (0.012)	0.017 J B	ND (0.012)	0.13
8260B	Toluene	mg/Kg	NA	6.5[2]	0.0078 J B	0.013 J B	0.0073 J B	0.5
AK101	GRO	mg/Kg	NA	300[2]	ND (2.9)	ND (2.8)	ND (3.0)	17 QL
AK102	DRO	mg/Kg	9,200[1]	NA	67 H	140	29	--
AK103	RRO	mg/Kg	9,200[1]	NA	340 H	280	180	--

Notes:

[1] Cleanup Level Established in 2009 Decision Document

[2]Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

-- = Analysis not requested

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Replicate = Sample is a field replicate sample.

H = Holding time exceeded with potential low bias

J = Result is an estimate

mg/kg = milligrams per kilogram

NA=Not Applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

Table H16 MOC MI sample Results (continued)

				Sample ID	14NOCMOCMI004	14NOCMOCMI005	14NOCMOCMI006	Trip Blank 093014-02
				Laboratory ID	580-45470-1	580-45470-2	580-45470-3	580-45470-4
				Location ID	MOCMI004	MOCMI005	MOCMI006	Trip Blank 093014-02
				Collection Date	9/30/2014	9/30/2014	9/30/2014	9/30/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evauation Criteria[2]**	Field Replicate	Field Replicate	Field Replicate	
8260B	Benzene	mg/Kg	2[1]	NA	ND (0.013)	ND (0.010)	ND (0.012)	ND (0.0080)
8260B	Ethylbenzene	mg/Kg	NA	6.9[2]	ND (0.013)	ND (0.010)	ND (0.012)	0.012 J
8260B	m,p-Xylene	mg/Kg	NA	63[2]	ND (0.013)	ND (0.010)	0.0080 J B	0.027 J
8260B	o-Xylene	mg/Kg	NA	63[2]	ND (0.013)	ND (0.010)	ND (0.012)	0.0097 J
8260B	Toluene	mg/Kg	NA	6.5[2]	0.0043 J B	ND (0.010)	ND (0.012)	0.15
AK101	GRO	mg/Kg	NA	300[2]	ND (3.2)	ND (2.5)	ND (3.0)	4.6
AK102	DRO	mg/Kg	9,200[1]	NA	78 QL	54	74	--
AK103	RRO	mg/Kg	9,200[1]	NA	310	280	410	--

Notes:

[1] Cleanup Level Established in 2009 Decision Document

[2]Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

-- = Analysis not requested

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Replicate = Sample is a field replicate sample.

H = Holding time exceeded with potential low bias

J = Result is an estimate

mg/kg = milligrams per kilogram

NA=Not Applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

Table H17 Cargo Beach MI Sample Results

				Sample ID	14NCCBMI001	14NCCBMI002	14NCCBMI003	14NCCBMI004	14NCCBMI005	14NCCBMI006	14NCCBMI007	14NCCBMI008
				Laboratory ID	580-46105-1	580-46105-2	580-46105-3	580-46105-4	580-46105-5	580-46105-6	580-46105-7	580-46105-8
				Location ID	CB-1	CB-2	CB-3	CB-4	CB-5	CB-6	CB-6	CB-6
				Collection Date	10/21/2014	10/21/2014	10/21/2014	10/21/2014	10/21/2014	10/21/2014	10/21/2014	10/21/2014
Analysis Method	**Analyte**	**Unit**	**Cleanup Level[1]**	**Evauation Criteria[2]**						Field Replicate	Field Replicate	Field Replicate
8260C	Benzene	mg/Kg	2[1]	NA	ND (0.0093)	ND (0.0096)	ND (0.012)	ND (0.0084)	ND (0.011)	ND (0.0060)	ND (0.0083)	ND (0.011)
8260C	Ethylbenzene	mg/Kg	NA	6.9[2]	ND (0.0093)	ND (0.0096)	ND (0.012)	ND (0.0084)	ND (0.011)	ND (0.0060)	ND (0.0083)	ND (0.011)
8260C	m,p-Xylene	mg/Kg	NA	63[2]	ND (0.0093)	ND (0.0096)	ND (0.012) QL	ND (0.0084)	ND (0.011)	ND (0.0060)	ND (0.0083)	ND (0.011)
8260C	o-Xylene	mg/Kg	NA	63[2]	ND (0.0093)	ND (0.0096)	ND (0.012)	ND (0.0084)	ND (0.011)	ND (0.0060)	ND (0.0083)	ND (0.011)
8260C	Toluene	mg/Kg	NA	6.5[2]	0.0055 J	ND (0.0096)	ND (0.012)	0.0037 J	ND (0.011)	ND (0.0060)	ND (0.0083)	ND (0.011)
AK101	GRO	mg/Kg	NA	300[2]	ND (2.3)	ND (2.4)	ND (3.0)	ND (2.1)	ND (2.7)	ND (1.5)	ND (2.1)	ND (2.7)
AK102	DRO	mg/Kg	9,200[1]	NA	6.1 J B	4.5 J B	14 QL B	19 B	91	14 B	11 B	17 B
AK103	RRO	mg/Kg	9,200[1]	NA	20	16 J	76	91	420	69	60	91

Notes:

[1] Cleanup Level Established in 2009 Decision Document

[2] Evaluation Criteria as stated in 18AAC75.345 Tables B1 and B2 (migration to groundwater).

-- = Analysis not requested

B = Analyte detected in a QC blank, sample result may have potential high bias

Field Replicate = Sample is a field replicate sample.

H = Holding time exceeded with potential low bias

J = Result is an estimate

mg/kg = milligrams per kilogram

NA=Not Applicable

ND = Result is non-detect with Limit of Detection (LOD) in parentheses

QL = Quality issue with potential low bias

APPENDIX I

Chemical Data Quality Report
(provided on CD)

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µg/kg	micrograms per kilogram
ADEC	Alaska Department of Environmental Conservation
Bristol	Bristol Environmental Remediation Services, LLC
BTEX	benzene, toluene, ethylbenzene, and xylenes
CCV	continuing calibration verification
COC	chain-of-custody
DL	detection limit
DoD	Department of Defense
DQO	data quality objective
DRO	diesel-range organics
EPA	U.S. Environmental Protection Agency
GRO	gasoline-range organics
HTRW	hazardous, toxic, and radioactive waste
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantitation
MBs	method blanks
MEK	methyl ethyl ketone
mg/kg	milligrams per kilogram
MI	*MULTI INCREMENT*
MOC	Main Operations Complex
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NE Cape	Northeast Cape, St. Lawrence Island, Alaska
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
QAPP	Quality Assurance Project Plan
QC	quality control

ACRONYMS AND ABBREVIATIONS (continued)

RL	reporting limit
RPD	relative percent difference
RRO	residual-range organics
RSD	relative standard deviation
SDG	sample delivery group
SIM	selected ion mode
SVOC	semivolatile organic compound
SW-846	EPA publication *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*
TA	TestAmerica Laboratories, Inc.
TCLP	toxicity characteristic leaching procedure
TFT	Trifluorotoluene
USACE	US Army Corps of Engineers
VOC	volatile organic compound

1.0 DATA VERIFICATION

Bristol Environmental Remediation Services, LLC (Bristol) composed this data verification report in accordance with the US Army Corps of Engineers (USACE), Alaska District requirements. All laboratory results relate to remedial actions executed at Northeast Cape (NE Cape), St. Lawrence Island, Alaska. Bristol performed this work under USACE Contract Nos. W911KB-13-C-0004 and W911KB-14-D-0006, Task Order 0002.

Bristol verified sample data collected from Sites 6, 8, 10, 27, 28, 32, the Main Operations Complex (MOC), and the Bulk Bag Staging Area at Cargo Beach. The verification process evaluates data completeness, correctness, consistency, and compliance with method procedures and quality control (QC) requirements; it also identifies anomalous data. The reported project sample values and any method laboratory control samples extracted or prepared with the project samples were reviewed. Data verification considers potentially influential conditions and procedures:

- Sample receipt conditions
  - Sample preservation
  - Cooler temperatures upon receipt
  - Chain-of-custody (CoC) condition/correspondence to submitted sample set
  - Presence/absence of custody seals
- Extraction and analytical procedures
  - Holding times
  - Method blanks (MBs)
  - Laboratory control samples (LCSs) and laboratory control sample duplicates (LCSDs)
  - Matrix spike (MS) and matrix spike duplicate (MSD),
  - Duplicate/replicate samples
  - Surrogate recoveries

- Sampling procedures
  - Field blanks
  - Trip blanks
  - Field duplicate/replicate samples
- Correspondence to method criteria and project data quality objectives (DQOs)

This Report does not include internal standards, calibrations, instrument tunes, chromatograms, quantitation reports, spectra, summaries identifying any analytical irregularities (and the subsequent corrective action taken by the laboratories), or anything not listed above. Laboratory report case narratives were examined and any documented calibration or other QC outliers were included when appropriate.

Control limits are specified in the *NE Cape HTRW Remedial Actions Quality Assurance Project Plan,* Addendum (QAPP) dated December, 2014. Unless otherwise stated, data fell within control limits. If control limits were not specified in the QAPP, in-house laboratory control limits were used for review. In some instances, quality control information beyond QAPP specifications was reported (e.g., additional surrogates). This information was also used for data review unless specifically noted.

Data verification satisfied standards established in the – *Quality Assurance Project Plan* (QAPP), Revision 1 (December, 2014); the Department of Defense (DoD) *Quality Systems Manual*, Version 4.2 (2010); and the Alaska Department of Environmental Conservation (ADEC) Technical Memorandum: Environmental Laboratory and Quality Assurance Requirements (Updated March 2009).

The data verifier assessed precision and accuracy by comparing surrogate, MS/MSD, and LCS/LCSD recoveries and relative percent differences (RPDs) to the QAPP-specified control limits. Control limits for waste samples were not included in the QAPP. This matrix uses laboratory-specified limits. The frequency of QC samples was compared to the

frequency specified in the QAPP. The MS/MSDs performed on non-project samples are not applicable, and were not evaluated.

The reviewed data sets include sample data collected for the NE Cape remedial actions, June through October 2014. TestAmerica Laboratories, Inc., Tacoma, Washington (TA-Tacoma) and TestAmerica Laboratories, Inc., West Sacramento analyzed the data. TestAmerica Laboratories, Inc. in Denver was specified as a backup for overflow samples as well as methane analyses in the QAPP. A DoD accredited onsite mobile laboratory also analyzed soil samples for diesel range organics (DRO) and residual-range organics (RRO) onsite at NE Cape.

TestAmerica used several methods for sample analysis:

- U.S. Environmental Protection Agency (EPA) methods 5030B/8260B for benzene, toluene, ethylbenzene, and xylenes (BTEX), as defined in US publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)
- Volatile organic compounds (VOCs) by SW-846 Methods 5035/8260B,C
- Gasoline-range organics (GRO) by ADEC method AK101
- DRO and RRO by ADEC method AK102/103
- DRO and RRO by ADEC method AK102/103 with silica gel clean-up
- Methane by RSK 175
- Glycols by SW-846 method SW846 method 8015B (or 8015C); with direct aqueous injection
- Polynuclear aromatic hydrocarbons (PAHs) by SW-846 method 3510C (or 3520C)/8270C (waters), 3550B/8270C (soils) or SW-846 method 3580A/8270C in selected ion mode (SIM)
- Polychlorinated biphenyls (PCBs) by SW-846 method 3510C/8082 (waters) and either 3550B or 3550C/8082 or 8082A (soils)
- Metals by SW-846 methods 3005A/6020 (waters) or 3050B/6020 (soils)
- Mercury by SW-846 methods 7470A (waters) or 7471A (soils)
- Toxicity characteristic leaking procedure (TCLP) metals by SW-846 methods 1311/3010A/6010B/7470A

- Incremental sample preparation (soil) in conjunction with the preparation and analytical methods listed above for GRO/BTEX, metals, PAHs, DRO/RRO and PCBs

Analytical results tables are presented in Appendix G of the RA Report. The tables include sample identification, which reference the year (13), the project (NC) for NE Cape, the site (e.g., -28 for site 28), the matrix (SS for subsurface soil, WA for water) and the sample location (referred to in Appendix G as LocID) as well as the laboratory ID along with the sample collection date. The LocID indicates the specific site at NE Cape, as well as a specific location within the sites.

Data qualifiers assigned during the data review are included on the analytical results tables in Appendix G. The following data qualifiers may be used to identify data points when data verification determines that results should be qualified because of a potential bias in the result, or a deviation from method or QAPP QC procedures:

1.1 DATA QUALIFIERS

- B – Analyte result is considered a high estimated value due to contamination present in the method blank, instrument blank, or trip blank. Results less than 10 times the reported method blank concentration will be B flagged to indicate bias.
- J – Positive result is less than the limit of quantitation (LOQ) and is considered an estimate.
- ND (LOD) – Analyte result is less than the detection limit (DL). The non-detected result (ND) has the limit of detection (LOD) in parentheses.
- QH, QL, QN – Analyte result is considered an estimated value biased (high [H], low [L], uncertain [N]) due to a laboratory quality control failure (Q) such as LCS/LCSD, MS/MSD or surrogate recoveries outside of acceptance limits. Field duplicates that do not meet relative percent difference (RPD) limits but meet other acceptance criteria are also flagged QN.
- H-Sample extracted or analyzed outside of holding time. Results have potential low bias.

Data verification was performed for samples collected from each site:

- Site 6: Four primary soil samples and one field duplicate
- Site 8: Two primary water samples and one field duplicate
- Site 10: Forty-one primary soil samples and six field duplicates; two bulk waste samples
- Site 21: Mapping; one-hundred and twenty primary samples and twelve field duplicates; six primary water samples and three field duplicates, thirty-one soil confirmation samples and four field duplicates, and three soil waste samples
- Site 27: One primary and one field duplicate
- Site 28: One *MULTI INCREMENT*[1] (MI) soil sample and two field replicates, and one waste sample from the Geotube
- Site 32: Nine soil samples and one field duplicate
- Main Operations Complex (MOC): Fifteen groundwater samples and two field duplicates; nine surface water samples and three field duplicates; two-hundred fifty-eight soil samples and thirty-eight field duplicates; sixty-six primary bulk waste samples and six field duplicates; one MI sample and two replicates
- Cargo Beach (Bag Staging Area): Six MI soil samples and two replicates

Field sample identification, corresponding laboratory identification, and analytical results are presented in the analytical results tables of the 2014 *Northeast Cape HTRW Remedial Actions Report*.

The sample summary sheet which lists all project samples and their respective analyses is presented as Attachment 1. The ADEC Laboratory Data Review Checklists are presented in Attachment 2. Bristol-to-USACE Variance-Request correspondence is presented in Attachment 3. Laboratory certifications are included in attachment 4.

Table 1-1 lists all laboratory work orders along with identifying the matrix and sites at NE Cape where the samples were collected.

[1] *MULTI INCREMENT®* is a registered trademark of EnviroStat, Inc.

Table 1-1 Laboratory Work Orders

Laboratory Work Order	Matrix	Site(s)
580-44007-1	Soil	Site 21 Mapping
580-44016-1	Soil	Site 28 Waste Char. (Geotubes)
580-44658-1	Soil	MOC Pre-stockpile sampling
580-44660-1	Soil	MOC Pre-stockpile sampling
580-44662-1	Soil	MOC Pre-stockpile sampling
580-44663-1	Soil	MOC Pre-stockpile sampling
580-44665-1	Soil	MOC Pre-stockpile sampling
580-44676-1	Water	MOC Surface Water Monitoring, Pre Exc.
580-44676-2	Water/Waste	Camp Ash, Bootwash Waste
580-44683-1	Soil	MOC Exc. C-Plume
580-44684-1	Soil	MOC Stockpile Sampling
580-44685-1	Soil	MOC Stockpile Sampling
580-44697-1	Soil	Site 32
580-44702-1	Soil	Site 10 Excavation
580-44718-1	Soil	MOC Exc E-Plume
580-44735-1	Soil	MOC Exc E-Plume
580-44747-1	Soil	MOC Exc E-Plume
580-44758-1	Soil	MOC Bulk Waste Char.
580-44766-1	Soil	MOC Exc E-Plume + One I–Plume Sample
580-44772-1	Soil	MOC Stockpile Sampling
580-44778-1	Soil	MOC E-Plume Exc.
580-44799-1	Soil	Site 10 DRO/RRO
580-44802-1	Soil	Site 10 Non-DRO (PCBS, Metals, PAHs, VOCs)
580-44806-1	Water	MOC Surface Water, Mid Exc
580-44811-1	Soil	MOC Well Soil, DRO/RRO
580-44813-1	Soil	MOC Bulk Waste
580-44828-1	Soi	MOC Well Soil, Non DRO/RRO
580-44829-1	Soil	MOC Well Soil, DRO/RRO
580-44831-1	Soil/Waste	Site 10 Drum Waste
580-44835-1	Soil	Site 32
580-44839-1	Soil	Site 21 Mapping

Table 1-1 Laboratory Work Orders (continued)

Laboratory Work Order	Matrix	Site(s)
580-44850-1	Soil	Site 27
580-44852-1	Soil	MOC bulk waste
580-44876-1	Soil	Site 10 DRO
580-44877-1	Soil	MOC E plume
580-44879-1	Soil	Site 32 DRO
580-44880-1	Soil	MOC stockpiles
580-44887-1	Soil	MOC Post Stockpile
580-44891-1	Soil	Site 21 surface water + 3 exc soils
580-44894-1	Soil	Site 6 PCBs
580-44895-1	Soil	Site 27 naphthalene
580-44897-1	Soil	MOC Post-stockpile
1143700 (SGS)	Soil	Site 10 Excavation
580-44911-1	Soil	Site 10 non-DRO soil
580-44911-2	Soil	Site 10 waste for 1 sample from 44911-1
580-44912-1	Soil	Site 21 Exc
580-44913-1	Soil	Site 21 bulk waste
580-44915-1	Soil	Pad 98 SP-MOC
580-44917-1	Soil	MOC post stockpile
580-44923-1	Soil	Site 21 waters
580-44975-1	Soil	Site 8 waters
580-45000-1	Soil	MOC bulk waste
580-45009-1	Soil	Site 28 MI
580-45035-1	Soil	Site 21 soil and bulk waste
580-45105-1	Soil	Site 10 exc VOCs
580-45122-1	Soi	MOC GW
580-45125-1	Soil	MOC and Site 21 SW
580-45126-1	Soil/Waste	MOC MI
580-45739-1	Soil	Site 10 VOCs
1143921 (SGS)	Soil	Site 10 Exc. VOCs
580-45740-1	Soil	MOC MI, Round 2
580-46105-1	Soil	Cargo Beach MI

(Intentionally blank)

2.0 DATA VERIFICATION RESULTS

2.1 SAMPLE RECEIPT CONDITIONS

Samples were shipped from NE Cape by Bering Air, who forwarded samples to the laboratory via Alaska Airlines Goldstreak or Northern Air Cargo. Custody seals remained intact from NE Cape until receipt by the laboratory. Most samples arrived at the lab at 4 (+/-2) Celsius (°C) and in good condition. Exceptions are noted here:

580-44007-1: Sample collection times were not noted on two of the three CoCs. Sample times were determined based on the sample labels on the containers. While the CoC was not properly completed to include sample collection times, the results are still usable for the purpose of mapping arsenic concentrations at Site 21 outside of the previously excavated areas. Holding times were not an issue as there is a 6-month holding time for arsenic. Results were not qualified.

580-44016-1: Sample collection times were not noted on the CoC. Sample times were determined based on the sample labels on the containers. While the CoC was not properly completed to include sample collection times, the results are still usable for the purpose of waste disposal determination; the samples were collected from the geotube sediment from Site 28. Results were not qualified.

580-44676-1 and 580-44676-2: One of the three coolers submitted with this sample delivery group (SDG) had a cooler temperature of 6.3°C and a temperature blank measured at 1.6°C. No flags were assigned based on the slightly elevated cooler temperature as the temperature blank was within DoD acceptance criteria.

580-44685-1: The cooler temperature was reported at 6.6°C and the temperature blank was noted at 3.6°C. No qualification is necessary, as samples were submitted to the onsite lab approximately 1 hour after collection.

580-44718-1: The single cooler temperature was recorded at 10.8°C upon receipt at the laboratory, and the temperature blank was recorded at 4.7°C. Samples were submitted to the onsite mobile laboratory approximately 90 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44735-1: The single cooler temperature was recorded at 7.2°C upon receipt at the laboratory, and the temperature blank was recorded at 3.5°C. Samples were submitted to the onsite mobile laboratory approximately 30 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44747-1: The single cooler temperature was recorded at 9.0°C upon receipt at the laboratory, and the temperature blank was recorded at 3.5°C. Samples were submitted to the onsite mobile laboratory approximately 45 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44758-1: The single cooler temperature was recorded at 7.7°C upon receipt at the laboratory, and the temperature blank was recorded at 2.1°C. Samples were transferred from an onsite sample refrigerator where they were stored along with the temperature blank to a cooler and walked to the mobile laboratory, resulting in a warmed cooler, though the temperature blank remained within acceptance range. Results are not considered impacted by the elevated cooler temperature due to the very short time between loading samples in the cooler and submittal to the lab as well as supporting evidence that the temp blank was within acceptance range.

580-44766-1: The single cooler temperature was recorded at 11.9°C upon receipt at the laboratory, and the temperature blank was recorded at 4.5°C. Samples were submitted to the onsite mobile laboratory approximately 55 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44772-1: The single cooler temperature was recorded at 6.4°C upon receipt at the laboratory, and the temperature blank was recorded at 3.5°C. Samples were submitted to the onsite mobile laboratory approximately 45 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44778-1: The single cooler temperature was recorded at 8.2°C upon receipt at the laboratory, and the temperature blank was recorded at 3.8°C. Samples were submitted to the onsite mobile laboratory approximately 30 minutes after sample collection. Results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

580-44802-1: The laboratory noted that the container for 14NC10SS008 had a collection time of 11:10 AM and the CoC listed a collection time of 11:05 AM. The sample was logged in per the CoC. The sample was extracted within holding time for all analyses, so results are not affected.

580-44806-1: Three coolers were shipped with this work order. Cooler 080414-1 was received with a cooler temperature of 3.8°C and a temperature blank at 1.2°C. Cooler 080414-2 was received with a cooler temperature of 6.1°C and a temperature blank at 1.7°C. Cooler 080414-3 was received with a cooler temperature of 6.5°C and a

temperature blank at 0.7°C. ADEC cooler acceptance criteria is 4°C +/- 2 degrees and USACE acceptance criteria is a temperature blank at 0-6°C. The cooler receipt forms indicated that all samples were received in good condition, so no flags were assigned for the slightly out of control temperatures in the coolers.

The case narrative noted that a 1-liter sample container for DRO analysis of sample 14NCMOCSW07 was received at pH 4. The laboratory added additional hydrochloric acid to bring the pH to less than 2. The case narrative did not note if the sample container with the adjusted pH was used for extraction and analyses. Extra sample containers were supplied for all analyses.

580-44911-1 and 580-44911-2: Several of the container sample IDs did not match the CoC. The alphanumeric sample ID noted the samples were collected from site 21 and were in fact collected from Site 10. Samples were logged in per the CoC, which has been verified as correct by sample collection and shipping personnel.

580-44913-1: The CoC lists two sample containers per sample, but in fact only one was submitted for arsenic analyses only. Analysis proceeded without qualification.

580-44923-1 and 580-45125-1: The Cooler Receipt Form and Login Sample Receipt Checklist noted that two of the samples only had one container and the CoC listed two—one total and one dissolved.

The total metals samples were inadvertently left out of the shipment. The two sample containers were later submitted under work order 580-45125-1 and were analyzed within holding time. There were no issues with reporting the results.

580-44975-1: Three coolers were submitted for this work order. Two coolers were initially shipped on 8/13/14. Cooler 081314-1 had a cooler temperature of 4.4°C and cooler 081314-2 was received with a cooler temperature of 3.9°C and a temperature blank at 0.7°C. Both cooler temperatures were acceptable. A third cooler containing

volatiles that was inadvertently omitted from the initial shipment was received at the lab on 8/19/14 with a cooler temperature of 0.5°C and a temperature blank measuring 0.7°C. All samples were received in good condition. Analyses and reporting proceeded within holding time and without any affect from the two separate shipments. The BTEX samples were logged in under work order 580-45015-1. All results were reported under work order 580-44975-1.

580-45105-1: The single cooler in this shipment was received with a cooler temperature of 0.2°C and a temperature blank of 0.7°C. The only samples submitted were methanol preserved soil samples for VOC analyses. All samples were received in good condition, so no flags were assigned for the lower temperatures.

580-45122-1: Ten coolers were shipped for this work order. Nine were within the temperature range. Cooler 082414-3 was received with a cooler temperature of 1.0°C and a temperature blank measured at 0.0°C. No samples were frozen or otherwise compromised from the slightly depressed cooler temperatures and analysis proceeded without any affects. Sample container 14NCMOCGW12 was received with one of two DRO containers broken upon receipt. The other container was used for analysis without incident.

The number of containers for the trip blank was noted as fifteen containers on the CoC when only nine containers were actually received. Trip blank analysis was not affected by the incorrect number noted on the CoC and analysis proceeded without incident.

580-45125-1: Two samples had differing collection times between the containers and the CoC. Dates on two other sample containers differed from those on the CoC by one and two days. The CoC had six containers listed for the trip blank and seven containers were actually received at the lab. The samples with incorrect sample times were logged in per the CoC. The samples with incorrect sample dates were logged in

per the container to assure holding times were met. All samples were extracted within holding times. While the mismatch between the sample containers and CoC had potential to affect sample results, all samples were extracted within holding times and sample results were unaffected. The containers with differing sample dates were submitted for total and dissolved arsenic only, which has a 180 day holding time. All results are usable without qualification with respect to sample documentation, preservation and sample receipt conditions.

580-45739-1: The laboratory report narrative noted that sample container 14NC10SS047-MSD had a smudged label, likely from methanol leakage. There were 3 jars submitted for this sample and sufficient methanol remained in the other 2 containers to perform analyses without incident. The container with the smudged label was not used for analysis. The sampling time for the trip blank on the CoC (Trip Blank 093014-1) did not match the sample time on the container. This does not affect holding times or reporting as there is no true collection time as the trip blanks are prepared in the laboratory prior to shipping out the empty sample containers for sample collection.

580-45740-1: The trip blank container listed a collection time of 10:00 AM and the CoC listed a time of 3:00 PM. The trip blank was logged in at 10:00 AM per the CoC. Holding time was not affected.

580-46105-1: Samples were initially received by TA-Anchorage with a cooler temp at 3.6°C. They were forwarded to TA-Tacoma for analysis where they were received with a cooler temperature at -2.2°C and a temperature blank at 4.4°C. The narrative noted that no samples appeared to be frozen and analysis proceeded without incident or impact on sample results.

The GRO/VOC MI samples in 46105-1 were collected in 8 oz. Teflon-lined sample jars. The sample receipt noted that methanol had smudged the labels indicating that

some sample preservative had been lost. The AK101/GRO field surrogate in the GRO/VOC samples met control limits. Sample results were ND for both VOCs and GRO, so results were not impacted by likely methanol loss.

1143700-SGS: The cooler temperature was recorded at 0.1°C. Samples were soil samples in methanol, so no freezing occurred and analysis proceeded without incident or need for qualification due to temperature upon receipt.

2.2 BTEX Analyses

TestAmerica analyzed samples for BTEX by SW-846 method 8260B. For soils, all QAPP specified surrogates were analyzed as well as additional surrogates. The data review was performed using all surrogates. QAPP specified QC for an analytical batch of up to 20 samples requires an MB, LCS/LCSD, and MS/MSD pair. A MB, LCS/LCSD, and project MS/MSD pair were analyzed with each batch and met all quality control criteria, except these work orders:

580-45009-1: The 8260 method blank in batch 580-167475 had a reported toluene concentration of 3.31 µg/kg. Sample 14NC28MI002 was the only sample in this work order with detectable concentration of toluene and it is B flagged.

580-44806-1: The BTEX LCS had recovery of toluene exceed the upper control limit, so toluene was re-analyzed in a second batch (580-167092) with sample 14NCMOCSW07. The original BTEX method blank 580-167033 had reportable concentrations of benzene and m, p-xylenes at less than half the LOQ. Project samples and the trip blank with reportable concentrations of benzene and m,p-xylenes were B flagged for blank contamination. All samples had reportable benzene below the LOQ, sample 14NCMOCSW07 had reportable concentrations of m,p-xylenes.

580-44975-1: The 8260/BTEX continuing calibration verification (CCV) had a response factor below the minimum acceptance level for acetone. The analysis proceeded without incident. Only BTEX (no acetone was reported for the VOCs) was reported, so

no action is required. Benzene failed high in the 8260 MS, the MSD passed along with the LCS/LCSD. No flags were assigned as the benzene result for the MS sample 14NC08SWA01 was non-detect for benzene.

580-46105-1: The VOC surrogate 4-bromofluorobenzene had recoveries in two project samples and the LCS exceeded the upper control limit. Project sample results were ND, so no flags were assigned. The VOC MS had m,p-xylenes recover at less than the lower control limit on sample 14NCCBMI003. The sample result was ND and a QL flag was assigned to the m,p-xylene result for the low MS recovery.

2.3 VOC ANALYSES

TestAmerica analyzed samples for VOCs by SW-846 method 8260B. QAPP specified QC for an analytical batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. An MB, LCS/LCSD and project MS/MSD were analyzed and within control limits with each batch with exceptions noted below.

For soil analysis, the QAPP listed only surrogates 4-bromofluorob4enzene (4-BFB) and toluene-d8. The laboratory reported three extra surrogates (fluorobenzene, tri-fluorotoluene (TFT), and ethylbenzene-d10) for soil samples which were also evaluated. It should be noted that TFT is a field surrogate provided with the methanol preservative specifically for AK101 (GRO) analysis. TFT was reported as a BTEX/VOC surrogate and its recoveries were evaluated. No results were flagged solely on the recovery of the TFT, but the recoveries were used to evaluate reported results. The QAPP surrogates and batch QC were within limits and results were not qualified, with exceptions noted below:

580-44676-2: The TCLP VOC method blank reported chloroform at 23.7 µg/L and benzene at 38.3 µg/L. Only sample 14NCASH1 was analyzed for TCLP VOCs and its chloroform and benzene results were B flagged for blank contamination.

The VOC analysis of waste water samples 14NCBOOTWASH1 and trip blank 072514-1 detected several analytes in the method blank; bromobenzene (0.139 µg/L), n-propylbenzene (0.222 µg/L), 1,3,5-trimethylbenzene (0.339 µg/L), 1,2,4-trimethylbenzene (0.224 µg/L), sec-butylbenzene (0.484 µg/L), p-isopropyltoluene (0.356 µg/L), 1,2-dichlorobenzene 0.311 µg/L and 1,2,4-trichlorobenzene (above the LOQ at 1.56 µg/L). Sample results for 14NCBOOTWASH1 that were less than 10 times the reported method blank concentrations were B flagged, specifically results for 1,2,4-trymethylbenzene, p-isopropyltoluene, and sec-butylbenzene. The results are still usable for waste characterization and disposal. None of the analytes exceeded the concentration of hazard determination and the waste liquids were disposed of as non-hazardous waste.

The VOC surrogate1,2-di chloroethane-d4 exceeded the upper control limit for sample 14NCBOOTWASH1 upon re-analysis at a 5x dilution. The sample was re-analyzed at a dilution in order to bring specific target analytes within calibration range. None of the reanalyzed target analytes is associated with this surrogate, so no flags were assigned based on the high surrogate recovery during reanalysis. There were also detections of 1,2,3-trichlorobenzene, hexachlorobutadiene and naphthalene in the re-analysis method blank. However, the sample results were either non-detect or greater than 10 times the concentration reported in the method blank, so no results were flagged based on the method blank detections.

The 8260 MS/ MSD had the recovery of 1,2 dichloroethane exceed the upper control limit. The sample was non-detect for 1,2 dichloroethane, so no flags were assigned.

580-44702-1: The VOC method blank had nine analytes detected in the method blank. Most samples were non-detect for all of the analytes detected in the method blank with the exception of methylene chloride, which was detected in all samples above the cleanup level as well as naphthalene in sample 14NC10SS001, which was well

below the site specific cleanup levels. Subsequent sampling at the same sample locations following additional excavation showed all results non-detect for methylene chloride. Methylene chloride is one of the main solvents in the laboratory and is a well-documented laboratory contaminant. A variance was granted by USACE for reporting analytes at concentrations greater than on-half the LOQ in the method blank.

580-44802-1: Naphthalene and 1,2,3 trichlorobenzene were detected in the VOC MB. Only naphthalene was detected in project samples. Recoveries of acetone and vinyl chloride exceed the upper control limits in the VOC CCV. A variance was granted for reporting as all samples were ND for acetone and vinyl chloride. The VOC LCS had recovery of vinyl chloride exceed the upper control limit. All sample results were non-detect. The VOC MS had recoveries exceed the upper control limit for 2,2-dichloropropane and vinyl chloride on sample 14NC10SS021. The VOC MSD had recoveries exceed the upper control limit for vinyl chloride and several MS/MSD analytes failed RPD limits. However, upon examination of MS/MSD percent recoveries, all MS/MSD percent recoveries met precision limits when RPD is calculated on percent recoveries and not on raw recoveries. No flags were assigned based on precision in MS/MSD recoveries for VOCs. Results for sample 14NC10SS021 are flagged QH for 2,2-dichloropropane and vinyl chloride, the sample results were non-detect.

The VOC CCV also failed to meet acceptance criteria for acetone and vinyl chloride. A variance was granted by USACE for reporting as all samples were non-detect for acetone and vinyl chloride.

580-44831-1: The VOC method blank had a reportable concentration of vinyl chloride at a concentration greater than one-half the LOQ. A variance was granted for

reporting vinyl chloride. Vinyl chloride was also detected in sample 14NCDRUM001 and the result is B flagged for blank contamination with potential high bias.

Seven analytes exceeded the upper control limits in the VOC MS. Only benzene was detected in the sample and having a recovery exceed the upper control limit. The benzene result for sample 14NCDRUM001 is flagged QH for quality issue with potential high bias.

580-44895-1: The 8260-VOC naphthalene MS/MSD failed to meet recovery limits. The parent sample concentration was greater than 4 times the spike concentration, so no qualification was necessary.

580-44911-1: The VOC CCV had a low recovery of bromomethane, which is noted as a poor performer for VOCs by EPA method 8260. A reporting limit standard was analyzed with acceptable recoveries. The USACE project chemist granted a variance for reporting the low CCV. Bromomethane was non-detect in all samples.

The minimum response factor (RF) for the 8260 CCV in analysis batch 580-166933 was outside of acceptance criteria for vinyl chloride, acetone, and 2-butanone. A low level CCVL was analyzed with acceptable criteria. Any detections of these 3 analytes are considered estimates.

Acetone was detected in sample 14NC10SS024 and the trip blank. The acetone result for sample 14NC10SS024 if flagged both QL for the low CCV recovery and also B flagged for detection in the trip blank. The method blank was ND for acetone.

The 8260 method blank did have detections of 2-hexanone, 4-MIBK and naphthalene. 4-MIBK was only detected in the trip blank. Naphthalene was detected in sample 14NC10SS024 and the trip blank at concentrations well below the cleanup level, those results are B flagged.

The 8260 VOC MS/MSD recoveries of bromobenzene, sec-butylbenzene, and tetrachloroethene in sample 14NC10SS031 exceeded the upper control limit, the LCS/LCSD met recovery limits. The bromobenzene, sec-butylbenzene and tetrachloroethene results for sample 14NC10SS031 were non-detect, so no flags were assigned as the instrument demonstrated the ability to detect these analytes.

580-45105-1: The 8260 CCV had calibration responses below the lower acceptance limit for 2-hexanone, acetone, chloromethane, and 2-butanone (MEK). A standard was analyzed at the reporting limit and the target analytes were detected within acceptance limits. The CCV also had recoveries of vinyl chloride and tetrachloroethene reported above the upper calibration limit. All of these analytes were non-detect and a USACE variance was granted for reporting the ND analytes outside of calibration acceptance limits.

The case narrative failed to identify that the VOC MS/MSD on sample 14NC10SS041 (580-45105-3) had recoveries of bromobenzene, toluene and vinyl chloride exceed the upper recovery limit for these three analytes in the MS, MSD or both. The parent sample results were non-detect for the three analytes, so no flags were assigned as the instrument demonstrated sufficient sensitivity and the LCS/LCSD was within control limits.

580-45122-1: The VOC method blank had reportable concentrations of 1,2,3 trichlorobenzene, 1,2,4 trichlorobenzene and naphthalene detected at less than one-half the LOQ. The single sample in this work order analyzed for VOCs along with a trip blank had positive detections of these three analytes and the results are B flagged for blank contamination. All three results were well below cleanup levels.

580-45739-1: The 8260 CCV had trichlorofluoromethane exceed the upper calibration limit. All samples were ND for trichlorofluoromethane, so results were reported without qualification. The minimum response factor for 2-butanone (MEK) and

acetone were outside of acceptance criteria for the CCV. The sample results were ND for these 2 analytes, so results were reported without qualification.

The 8260 MS/MSD on sample 14NC10SS047 failed the meet the upper acceptance criteria. The parent sample result was ND, so no flags were assigned.

1143921-SGS: The 8260-VOC MS/MSD on project sample 14NC10SS039 failed recovery high for hexachlorobutadiene. It was not detected in the sample.

Chloroethane failed to meet RPD (precision) in the MS/MSD. The sample was not detected in the parent sample. No flags were assigned as the analytes out of control were non-detect and would have been detected if present, so no flags were assigned to ND results.

2.4 METHANE ANALYSES

TestAmerica-Denver analyzed all samples for methane using method RSK 175.

Required QC for an analytical batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. A MB, LCS/LCSD and project MS/MSD pair were analyzed with each batch.

The following items were reviewed and met QAPP criteria: holding times, MB, LCS and LCSD recoveries, and MS/MSD recoveries and RPDs.

2.5 GLYCOL ANALYSES

TestAmerica analyzed samples for glycols by SW-846 method 8015B. For each analytical batch of up to 20 samples, an MB, and LCS/LCSD and MS/MSD pairs were analyzed. Surrogates, LCS/LCSD recoveries and RPDs, and MS/MSD recoveries and RPD were reviewed and met QAPP criteria, except as noted:

580-44702-1: The glycol analysis of sample 14NC10SS006 had low recovery of the surrogate 1,4 butanediol. The results were non-detect. Non-detect results for sample 14NC10SS006 are flagged QL for quality issue with potential low bias.

580-44911-1: The glycol method blank had reportable detections of ethylene glycol. All sample results were non-detect, so no flagging was necessary. The surrogate recovery for sample 14NC10SS024 was below the lower acceptance limit and the non-detect results are flagged QL for quality issues with potential low bias. The sample was re-extracted with similar results. The confirmation column also had low surrogate recoveries but the primary column surrogate results were within control limits, so no flagging was necessary.

2.6 GRO Analyses

TestAmerica tested for GRO by ADEC method AK101. Required QC for an analytical batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. An MB, LCS/LCSD pair and project MS/MSD pair were performed with each QC batch.

Holding times, MBs, LCS/LCSD recoveries and RPDs, and MS/MSD recoveries and RPDs were reviewed and met QAPP criteria, except as noted:

580-44016-1: The GRO analysis had low field surrogate recovery in the single submitted sample. The GRO result is flagged QL for low surrogate recovery; the GRO result is ND. It should be noted that sample 14NC28WCSD01 had reported percent solids of 43%, which may explain the low surrogate recovery (matrix interference). The sample was collected from a geo-tube after over-winter dewatering yet still had greater than 50% moisture content when the sample was collected and analyzed. The GRO MS also had low recovery. However, the MS was performed on a non-project sample, so no flags were assigned. The GRO/MS/MSD also failed to meet RPD limits, again no flags were assigned as it was not a project sample.

580-44676-1: The GRO method blank had a reportable concentration of GRO at 0.0192 mg/L. All sample results in this SDG were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias. The results were still usable for monitoring the surface waters' down gradient of the MOC excavation.

580-44702-1: The GRO method blank had a reportable concentration of GRO at 2.5 milligrams per kilogram (mg/kg). All sample results in this SDG except two were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias. The results were still usable to demonstrate that GRO is not above cleanup levels at Site 10. The laboratory case narrative also noted that foaming occurred in three samples and that the chromatogram pattern did not resemble GRO.

580-44802-1: The GRO MS/MSD recoveries for sample 14NC10SS021 were either non-detect or way below acceptance range. Upon review the surrogate recoveries for the MS/MSD were well within acceptance range, leading the reviewer to believe that no GRO spike was added to the MS/MSDs, so no flags were assigned. The GRO/LCS/LCSD also failed to meet RPD limits with an RPD of 33%. All samples in this work order with detectable results were flagged QN for quality issues with no directional bias.

580-44806-1: The GRO method blank had a reportable concentration of GRO at 0.021 mg/L. All sample results in this SDG were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias. The results were still usable to demonstrate that GRO is not above cleanup levels in surface waters adjacent to the MOC.

580-44828-1: The surrogate 4 bromofluorobenzene (BFB) was added as a surrogate in the laboratory for GRO analysis. The primary surrogate trifluorotoluene (TFT) was

added to the methanol preservative prior to sample collection and is the primary surrogate for GRO by Alaska method AK101. TFT was within control limits for all samples, so no flags were assigned based on surrogate recoveries for GRO analysis. Matrix interference is noted in the case narrative as the root cause of surrogate failure.

580-44975-1: The GRO spike in the MS/MSD was inadvertently omitted by the laboratory during sample preparation/extraction. No spike was added to the GRO MS/MSD. The LCS/LCSD met recovery limits and the GRO result for sample 14NC08SWA01 was non-detect, so no flags were assigned.

580-45126-1: The GRO batch prep failed to spike the MS/MSD. The LCS/LCSD met recovery limits, so no flags were assigned. The omission of the MS/MSD spike did not diminish the data accuracy of the results, which were all non-detect for GRO.

Sample 14NCMOCMI003 was re-analyzed due to a probable mis-injection during the initial analysis. The re-analysis produced acceptable results and the results are reported without qualification.

The GRO field surrogate, trifluorotoluene, failed to meet the lower recovery limit in the trip blank, the surrogate recovery was 2%. The case narrative noted that the volume of methanol in the trip blank may have been less than the 25 mL noted as the volume, which would affect the percent recovery. The GRO result for trip blank 081714-1 is flagged QL for quality issue with potential low bias. All project sample results in this work order were ND for GRO, so no flags were assigned to project samples.

580-46105-1: The GRO MS had recoveries exceed the upper control limit, the parent sample result for 14NCCBMI003 was ND for GRO, so no flags were assigned.

2.7 SVOC ANALYSES

TestAmerica analyzed SVOC samples by method SW-846 8270C. Required QC for an analytical batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. An MB, and LCS/LCSD and MS/MSD pairs were performed with each QC batch.

MBs, surrogate recoveries, and LCS/LCSD, MS/MSD recoveries and RPDs were reviewed and met QAPP criteria.

580-44676-2: The SVOC method blank had detectable concentrations of di-n-butyltphthalate and bis (2-ethylhexyl) phthalate. Sample results were non-detect for these analytes so no flags were assigned. The SVOC LCS/LCSD had high recoveries for several analytes, none of which were detected in the single sample analyzed in the batch so no flags were assigned based on the high LCS/LCSD recoveries. The SVOC LCS/LCSD failed RPD limits for 2-methylnaphthylene and 2-methylphenol, the positive sample results for 14NCASH1 were flagged QN for quality issue with no directional bias.

580-44831-1: The TCLP SVOC MS on sample 14NCDRUM001 had the recovery of hexachloroethane and nitrobenzene exceed the upper control limits. Hexachloroethane and nitrobenzene were non-detect in sample 14NCDRUM001 so no flags were assigned.

2.8 PCB ANALYSES

TestAmerica analyzed samples for PCB by method SW-846 8082. Required QC for an analytical batch of up to 20 samples includes an MB, LCS, and MS/MSD pair. The following items were reviewed and met QAPP criteria: holding times, MBs and LCS/LCSD recoveries. A MB, LCS/LCSD, and project MS/MSD pair were performed with each QC batch and met acceptance criteria with noted exceptions:

580-44831-1: Sample 14NCDRUM001 may contain Aroclor 1254 but the chromatographic pattern did not match the standard. The sample was re-analyzed with proper calibration but the sample did not closely match the sample chromatographic pattern. The result is J flagged for uncertainty. The sample result was well below the concentration for hazard determination. The sample was soil placed in a drum for disposal.

580-44894-1: The closing CCV for PCB analysis had the CCV surrogate recover 2% below the lower acceptance limit. Samples were reanalyzed with similar results. The USACE project chemist granted a variance for reporting sample results ND as sample surrogates met recovery limits.

1143700-SGS: PCB MS/MSD recoveries were 125% of spike concentration or higher, the parent sample result was ND for all PCBs. All PCB sample results were ND except one that was reported with an Aroclor 1260 a concentration less than the LOQ. The high PCB recoveries in the MS/MSD did not affect sample results and no flags were assigned to the PCB results.

2.9 PAH ANALYSES

TestAmerica analyzed samples by SW-846 method 8270C selected ion mode (SIM) for PAHs. Required QC for an analytical batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. A MB, LCS/LCSD, and project MS/MSD pair were performed with each QC batch and met criteria with some exceptions:

580-44016-1: The PAH method blank has reportable concentrations of 2-methylnaphthalene, fluorene and phenanthrene at less than ½ the LOQ; sample results were greater than 10 times the reported MB concentrations so no flags were assigned. The PAH LCS had low recovery of 1-methylnaphthalene and naphthalene; sample results for these analytes on sample 14NC28WCSD01 were flagged QL for quality issues with potential low bias.

580-44676-1: The PAH method blank had pyrene detected at a concentration of 0.0136 µg/L, all samples in this SDG were non-detect for pyrene so no flags were assigned. The PAH LCSD in extraction batch 580-165193 had low recoveries for several analytes and surrogates. The MS/MSD met accuracy and precision criteria as did the LCS so over-concentration is likely the root cause of the low LCSD recoveries. Samples with positive results associated with the low LCSD recoveries are flagged QL for quality issues with potential low bias.

580-44702-1: The 8270 PAH MS/MSD on sample 14NC10SS005 had low recoveries for anthracene and fluorene in sample 14NC10SS005. Anthracene was detected in the sample at a concentration well below the cleanup level, fluorene was non-detect. Both results are flagged QL for quality issues with potential low bias.

580-44802-1: The PAH MB had pyrene detected at 3.11 µg/kg, which is greater than one-half the LOQ. A USACE variance was granted for reporting pyrene in the MB at greater than half the LOQ. Roughly half of the samples submitted in this work order had pryene detected at less than 10 times the MB concentration and are B flagged.

580-44806-1: The internal standard perylene –d12 recovery was outside of acceptance limits for the MB, LCS and LCSD in the PAH extraction batch 580-166169. The QC results were not reported for benzo[b]fluoranthene or benzo[k]fluoranthene with the exception of the MS/MSD, which met recovery and internal standard criteria with the exception of the MS/MSD not meeting RPD requirements for acenaphthylene. The acenapthylene result for 14NCMOCSW07 is flagged QN for quality issue with no directional bias. The MS/MSD recoveries were within control limits. The LCS also had several other analytes not reported due to the IS recovery failure. The LCSD and MS/MSD recoveries were within control limits so no flags were assigned based on the non-reporting of 6 analytes in the LCS.

580-44828-1: The PAH surrogate nitrobenzene-d5 failed to meet the lower recovery limit in samples 14NCWELLSS07, -SS10 and –SS11. Sample 14NCWELLSS10 also had surrogate 2-fluorobiphenyl fail high. Terphenyl-d14, the primary PAH surrogate, met control limits so no PAH results were flagged based solely on surrogate recoveries.

580-44975-1: The PAH surrogate nitrobenzene-d5 failed to meet the lower recovery limit in samples 14NC08SWA02 and 14NC08SWA03. Sample14NC08SWA03 also had surrogate 2-fluorobiphenyl fail high. Terphenyl-d14, the primary PAH surrogate, met control limits so no PAH results were flagged based solely on surrogate recoveries. There were no other QC issues associated with PAH analyses in this work order.

580-45122-1: The PAH method blank had positive detections at less than half the LOQ for anthracene, benzo[b]fluoranthene, chrysene, phenanthrene and pyrene. Most sample results were ND. Those affected results whose concentrations are less than 10 times the method blank results are B flagged with potential high bias. All B flagged results were below their respective cleanup levels.

The PAH MS/MSD failed low for several analytes on sample 14NCMOCGW01. The PAH MS/MSD parent sample was ND for the low recovering analytes. The ND results are flagged QL for quality issue with potential low bias.

580-45125-1: The PAH surrogate, Terphenyl-d14, recovered above the upper acceptance limit in sample 14NCMOCSW11. The fluoranthene and pyrene results for 14NCMOCSW11 are flagged QH for quality issue with potential high bias, all other PAH results for this sample were non-detect (ND).

The PAH MS/MSD on sample 14NCMOCSW12 had recoveries exceed the upper control limit for 1-methylnaphthalene and 2-methylnaphthalene, all other PAH results were non-detect. 1-methylnaphthalene and 2-methylnaphthalene results for

sample 14NCMOCSW12 are flagged QH for quality issue with potential high bias due to the MS/MSD recoveries for these 2 analytes.

1143700-SGS: The PAH MS/MSDs on sample 14NC10SS031 failed to meet acceptance criteria on several analytes. The case narrative noted matrix interference. The PAH parent sample and MS/MSD were analyzed at a 5x dilution. Several PAH analytes had no reported recovery at all. MS/MSD recoveries that were below acceptance criteria are flagged QL. Those with recoveries greater than the upper acceptance limit are flagged QH. Fluorene is flagged QH due to the high recoveries even though the MS/MSD failed to meet RPD limits.

Some PAH sample surrogates failed to meet recovery limits. Some samples were diluted prior to analysis due to dark colored extracts before initial analysis. Sample results that were ND with high surrogate recoveries are not flagged. Samples with high surrogate recoveries and reportable PAH concentrations are flagged QH. PAH sample results with low surrogate recoveries are flagged QL, even if non-detect.

2.10 DRO/RRO ANALYSES

TestAmerica analyzed samples for DRO/RRO following ADEC methods AK102/103.

Required QC for a batch of up to 20 samples includes an MB, LCS /LCSD, and MS/MSD pair. A MB, LCS/LCSD, and project MS/MSD pair were performed with each QC batch and met acceptance criteria, with some exceptions:

580-44016-1: The RRO surrogate on sample 14NC28WCSD01 exceeded the upper control limit and the DRO result is flagged QH for quality issue with potential high bias. The RRO method blank had reportable concentrations. However, the sample result was greater than 10 times the blank concentration so no flags were assigned.

580-44658-1: The DRO method blank had a reportable concentration at 9.42 mg/kg. Eighteen of the twenty samples submitted in this SDG had concentrations less than

ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.

580-44660-1: The DRO method blank had a reportable concentration at 9.4 mg/kg. Thirteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias. Two sets of field duplicates were submitted with this SDG. Samples PSP040 and PSP085 (field duplicate pairs) failed to meet the 50% RPD limit for RRO and both RRO results are flagged QN for quality issue with no directional bias.

580-44662-1: The DRO method blank had a reportable concentration at 10.4 mg/kg, which is greater than half the LOQ. A variance was granted by the USACE chemist for reporting results. Eighteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias. The RRO matrix spike on sample PSP041 (580-44662-1), failed to meet the lower recovery limit, possibly due to a heterogeneous matrix. The MSD and RRO surrogate were well within recovery limits. The RRO result for sample PSP041 is flagged QL for quality issue with potential low bias. The results are still usable for project purposes, which is pre-stockpile sampling before a liner and excavated soil were placed at the location.

580-44663-1: The DRO/RRO method blank had a reportable concentration of DRO at 9.3 mg/kg and RRO at 13.4 mg/kg. Every sample in this SDG had concentrations less than ten times the method blank concentration for either, DRO, RRO or both and their results are B flagged to indicate blank contamination with potential high bias.

580-44665-1: The RRO matrix spike duplicate (MSD) on sample PSP081 (580-44665-1), exceeded the upper recovery limit, possibly due to a heterogeneous matrix. The RRO MS and RRO surrogate were well within recovery limits. The RRO

result for sample PSP041 is flagged QH for quality issue with potential high bias. The results are still usable for the project purposes of pre-stockpile sampling prior to placement of a liner and excavated soil.

580-44676-1: The DRO MS/MSD on sample 14NCMOCSW03 failed to meet the lower recovery limit and the DRO result is flagged QL for quality issues with potential low bias. The LCS/LCSD met recovery limits.

580-44683-1: The DRO method blank had a reportable concentration at 6.4 mg/kg. Nine of the fifteen samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.

The DRO/RRO batch MS/MSD on sample 14NCMOCSS001 had spike recoveries below the lower acceptance limit. The DRO parent sample concentration was greater than four times the spike concentration so no flags were assigned. The RRO parent sample concentration was within four times the spike concentration so the RRO result is flagged QL for quality issue with potential low bias.

580-44684-1: The DRO/RRO method blank had a reportable concentration DRO concentration of 6.4 mg/kg and an RRO concentration of 14 mg/kg. None of the samples submitted in this SDG had concentrations less than ten times the method blank concentration, so no flags were assigned.

The DRO/RRO batch MS/MSD on sample 14NCMOCSP01 had spike recoveries below the lower acceptance limit. The DRO and RRO parent sample concentrations were greater than four times the spike concentration so no flags were assigned.

The single set of field duplicates 14NCMOCSP04 and 14NCMOCSP05 failed to meet RPD criteria for both DRO and RRO. Both sets of DRO and RRO results are flagged

QN for quality issue with no directional bias. Both sets of results greatly exceeded the site specific cleanup levels, so the results are usable for project purposes.

580-44697-1: The DRO/RRO method blank had a reported concentration of 9.36 mg/kg, which is less than half the LOQ. All sample results analyzed with this method blank had reported concentrations greater than 10 times the blank concentration, so no flags were assigned.

The RRO surrogate recoveries for samples 14NC10SS002, 14NC10SS005, 14NC10SS007 and the MSD exceeded the upper control limit, the DRO surrogate met control limits. Sample 14NC10SS001 had the DRO surrogate recovery exceed the upper control limit. Sample results reported with surrogate recoveries exceeding the upper control limit are flagged QH for quality issues with potential high bias.

The matrix spike performed on sample 14NC32SS001 had low DRO recovery, the surrogates and RRO recovery met acceptance limits. The parent DRO result is flagged QL for quality issue with potential low bias.

The matrix spike performed on sample 14NC10SS005 had both DRO and RRO spike recoveries outside of acceptance limits. The parent sample concentration was greater than four times the spike concentration, so no flags were assigned.

580-44718-1: The DRO method blank had a reported concentration of 6.12 mg/kg, which was less than half the LOQ, sample results less than 10 times the blank concentration are B flagged. Five of the eleven samples submitted in this SDG were B flagged.

Sample 14NCMOCESS007 had low RRO surrogate recovery, its RRO result is flagged QL for quality issue with potential low bias.

580-44747-1: The DRO method blank had a reported concentration of 6.81 mg/kg, which was less than half the LOQ, sample results less than 10 times the blank

concentration are B flagged. Two of the five samples submitted in this SDG were B flagged.

580-44758-1: All three sets of MS/MSDs failed to meet recovery limits. The parent sample concentrations of two of the three MS/MSDs were greater than four times the spike concentration so no flagging is required. The third set of MS/MSDs failed to meet recovery criteria for DRO so the parent sample (14NCMOCBW442) DRO result is flagged QL for quality issue with potential low bias.

580-44766-1: The DRO method blank had a reported concentration of 6.81 mg/kg, which was less than half the LOQ. All DRO sample results were greater than 10 times the blank concentration, so no results were flagged.

580-44829-1: The DRO MSD failed to meet the lower recovery criteria. The case narrative noted that the parent sample concentration was greater than four times the spike concentration, so no flags were assigned.

580-44835-1: The DRO MSD failed to meet the lower recovery criteria. The case narrative noted that the parent sample concentration was greater than four times the spike concentration so no flags were assigned.

580-44852-1: Two sets of DRO MS/MSDs failed to meet the lower recovery criteria. The case narrative noted that the parent sample concentration on sample 14NCMOCBW504 was greater than four times the spike concentration so no flags were assigned. The second set of DRO MS/MSDs on sample14NCMOCBW488 failed to meet lower recovery limits, the results are flagged QL for quality issue with potential low bias.

580-44876-1: The DRO/RRO MS/MSD failed to meet the lower recovery criteria. The surrogates were well within control limits, the spike recoveries were extremely out of control suggesting that the MS/MSD was never spiked into the soil. DRO and RRO

results for sample 14NC10SS031 are flagged QL for quality issue with potential low bias.

580-44877-1: he DRO MS recovery was 73%, which was 2% below the lower acceptance criteria. The DRO result for sample 14NCMOCESS029 is flagged QL for quality issue with potential low bias.

580-44879-1: The DRO MS/MSD on sample 14NC32SS010 failed to meet recovery criteria. The case narrative noted that the parent sample concentration was greater than four times the spike concentration so no flags were assigned.

580-44880-1: The DRO MS/MSD on sample 14NC32SS010 from work order 580-44879-1 failed to meet recovery criteria. The case narrative noted that the parent sample concentration was greater than four times the spike concentration so no flags were assigned.

580-44887-1: Two sets DRO MS/MSDs failed to meet recovery limits. The parent sample concentrations were greater than four times the spike concentrations so no flags were assigned.

580-44897-1: The DRO MS/MSD failed to meet recovery limits due to high DRO concentration in the parent sample, no flags were assigned as the MS/MSD parent sample concentration was greater than four times the spike concentration.

580-44915-1: The DRO MS/MSD failed to meet recovery limits due to high DRO concentration in the parent sample, no flags were assigned as the MS/MSD parent sample concentration was greater than four times the spike concentration.

580-45000-1: The DRO/RRO batch of two primary samples also had two sets of MS/MSDs. The samples were field duplicates. The DRO recovery likely failed in both samples because the parent sample DRO concentration was greater than four times the spike concentration. While not documented, the reviewer suspects that the DRO/RRO

MSD on sample MOCBW507 was double spiked based on the MS recovery. Because of the high parent sample concentrations and relative agreement of the field duplicates, sample results are flagged QN for quality issues with no directional bias.

580-45009-1: The DRO method blank had a reported concentration of 1.3 mg/kg in the untreated (non-silica gel) method blank. All untreated DRO sample results in this work order were B flagged for blank contamination.

580-45122-1: Two DRO samples, 14NCMOCGW06 and -GW07, were re-extracted outside of holding time due to method blank contamination greater than one-half the LOQ. The re-extracted samples had method blank contamination at a concentration less than one-half the LOQ and also had a low LCSD recovery for DRO and RRO. The reviewer used professional judgment and reported the initial sample results with results B flagged for the two affected samples.

Sample 14NCMOCGW16 had the DRO surrogate recover at less than the lower recovery limit. The DRO result is flagged QL for quality issue with potential low bias.

580-45126-1: DRO was detected in the method blank at 1.24 mg/kg, which is less than half the LOQ. All reported DRO sample concentrations were greater than 10 times the method blank concentration, so no flags were assigned.

580-45740-1: The DRO MSD on sample 14NCMOCMI004 failed to meet the lower recovery limit. The DRO MB had reportable concentrations at less than half the LOQ at 2.91 mg/kg. No corrective actions were required. The DRO LCS/LCSD met accuracy and precision limits and the MB concentration did not affect sample results, which were greater than 10 times the MB DRO concentration.

580-46105-1: The DRO MB had reportable concentrations at less than half the LOQ, all project sample results except one were affected as the sample concentrations were less than 10 times the MB concentrations and B flags were assigned to project samples

with DRO concentrations at less than 10 times the DRO MB concentration. The DRO MS had recoveries at less than the lower acceptance limit. The DRO result for parent sample 14NCCBMI003 was flagged QL.

2.11 Total Organic Carbon Analyses

TestAmerica analyzed samples for total organic carbon analysis by SW-846 method 9060. A MB, LCS/LCSD, MS/MSD, and laboratory duplicate were analyzed with each batch. Holding time, MB, LCS/LCSD percent recoveries, and RPD percent recoveries, MS/MSD percent recoveries, RPD, and laboratory duplicate RPDs met QAPP criteria at review.

2.12 Metals Analyses

TestAmerica analyzed water and soil samples by SW-846 method 6020. Water samples were analyzed for both total and dissolved (field filtered) metals.

Required QC for a batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. An MB, LCS/LCSD, and project MS/MSD were analyzed per batch and met acceptance criteria, except as noted below. In addition, laboratory duplicates were reported.

580-44007-1: Two extraction batches whose MS/MSDs for arsenic analyses were reported to have RPDs exceeding their control limits in the case narrative. MS/MSDs were performed on samples 14NC21SS016-3 (580-44007-52) and 14NC21SS035-3 (580-44007-115), which were flagged for spike recoveries outside of control limits. When RPD is calculated using the raw recovered spike concentrations the RPD is exceeded. When percent recoveries are evaluated for RPD, both MS/MSD sets meet RPD requirements. The root cause for the discrepancy is that per the EPA method, the raw (mg/kg) recoveries are evaluated and not the percent recoveries. The differing weights of the two samples prior to spiking caused the error. When percent recoveries are evaluated for RPD precision, sample 14NC21016-3 had 110 and 117% spike recoveries with an RPD of 6.2% The MS/MSD recoveries for 14NC21SS035-3 were

reported with 110% and 112% recoveries and an RPD of 5.5%. Because the RPD criteria is met when percent recoveries are used to calculate RPD precision, no flags were assigned to the parent sample arsenic results for the MS/MSDs discussed in this section.

580-44016-1: The 6020 metals MS/MSD exceeded the upper control limits for barium and vanadium, likely due to non-homogeneity as cited in the case narrative. The MS/MSD was not a project sample, so no results were flagged for low 6020 metals recoveries.

580-44802-1: The metals MS/MSD on sample 14NC10SS021 exceeded the upper control limits in the MS for chromium and vanadium and the MSD also exceeded upper control limits for chromium, vanadium and zinc. The LCS/LCSD and post-digestion spike met control limits. The chromium, vanadium and zinc results for sample 14NC10SS021 are flagged QH for high recoveries in the MS and/or MSD.

580-45009-1 The metals method blank had lead detected at 0.0688 mg/kg. All sample results were greater than 10 times the blank concentration, so no flags were assigned.

580-44828-1: The metals MS/MSD recoveries of chromium and vanadium exceeded the upper control limit on sample 14NCWELLSS01. The lab LCS was in control limits so the chromium and vanadium results for sample 14NCWELLSS01 are flagged QH for quality issue with potential high bias.

580-44839-1: The case narrative noted that the arsenic MS/MSD failed to meet RPD criteria on sample 44839-29 (14NC21SS049-2). The percent recoveries on the MS/MSD were 106% and 116% respectively. When RPD is calculated on percent recoveries and not on raw recoveries the RPD is 9%, therefore results are not flagged based on the RPD of the arsenic MS/MSD.

580-44911-1: The metals MS/MSD on sample 14NC10SS031 had recoveries of barium chromium and vanadium exceeded the upper control limit. The positive results are flagged QH for quality issues with potential high bias. The affected results are well below site-specific cleanup levels.

2.13 MERCURY ANALYSES

TestAmerica analyzed mercury in soil samples by SW-846 method 7471A and total and dissolved mercury in water samples by SW-846 method 7470A. The drum waste samples were analyzed for TCLP Metals by SW-846 methods 1311/7470A. Required QC for a batch of up to 20 samples includes an MB, LCS/LCSD, and MS/MSD pair. A MB, LCS/LCSD and project MS/MSD were analyzed per batch. In addition, a laboratory duplicate was reported. Hold time, MB, LCS/LCSD recoveries and RPDs, and MS/MSD RPDs were reviewed and met QAPP criteria, except as noted below:

580-44016-1: The mercury MS/MSD on the single project sample failed to meet lower recovery limits, the lab duplicate on the same sample also exceeded RPD limits. The mercury result for sample 14NC28WCSD01 is flagged QL for low MS/MSD recoveries as the primary qualifier flag.

580-44828-1: The mercury lab duplicate on sample 14NCWELLSS01 failed to meet RPD control limits with a 48% RPD, control limit is 20% RPD. The mercury result for sample 14NCWELLSS01 is flagged QN for quality issue with no directional bias. Both mercury results were nearly 100 times below the mercury cleanup level.

580-44911-1: The mercury MS/MSD on sample 14NC10SS031 had recoveries exceed the upper control limit. The positive results for sample 14NC10SS031 are flagged QH for quality issues with potential high bias. The affected results are well below site-specific cleanup levels

580-45122-1: Mercury was detected in the total mercury method blank. Nearly all results were either non-detect or at concentrations less than 10 times the blank concentration and were B flagged. Non-detect results were not flagged.

2.14 PERCENT MOISTURE

TestAmerica TestAmerica analyzed samples for percent moisture using ASTM Method D 2216 in order to report results on a dry-weight basis. Sample 14NC21SS001-1 exceeded the 20% RPD criteria for moisture. The parent result is flagged QN for quality issue with no directional bias.

2.15 FIELD QA/QC

Field QC samples included field duplicate pairs, MS/MSD pairs, and trip blanks. Field QC samples were analyzed in the same manner and in the same extraction and analytical batches as primary field samples. Field duplicate samples were submitted "blind" to the lab with similar sample IDs as primary field samples, so the lab could not identify which samples were duplicates.

2.15.1 Field Sample Duplicates

The comparison of field sample duplicate results provides for the evaluation of precision as measured by relative percent difference (RPD) for the overall sample collection and analytical process. The precision between the field duplicate samples may be influenced by the unequal distribution of target analyte concentrations within a matrix. The RPD assessment criteria (as specified in the QAPP) were used to evaluate the field duplicates: ≤30% RPD for water matrices and ≤50% RPD for soils. This variability is assessed by evaluating the calculated RPDs between the field duplicate sample results. If target analytes were detected in one sample greater than the LOQ and not detected in the duplicate, both detected and non-detected results were flagged QN to indicate imprecision. Data which was J flagged and detected between the LOQ and the DL had the RPD calculated but analytical results were not flagged for out of control RPDs.

For MI samples, one primary and two field replicate samples were collected; therefore, the calculation is percent relative standard deviation (RSD), not RPD. The RSD assessment criteria was <30% RSD using the same reporting criteria cited in the last paragraph. One set of replicates were collected at the same minimum 10% frequency or greater per matrix and analyte suite per area of concern.

Field Duplicate Frequencies

Field sample duplicate pairs are specified the QAPP at a minimum rate of 10% per matrix and analytical suite. Field duplicates were collected at each site at the following frequencies:

- Site 6: Four primary soil samples and one field duplicate, 25% frequency
- Site 8: Two primary water samples and one field duplicate, 50% frequency
- Site 10: Forty-one primary soil samples and six field duplicates (15%) along with two bulk waste samples.
- Site 21: Mapping; One-hundred and twenty primary samples and twelve field duplicates (10%). Six primary water samples and three water-field duplicates (50%), thirty-one soil excavation confirmation samples and four field duplicates(13%), and three soil waste samples.
- Site 27: One primary soil sample and one field duplicate (100%).
- Site 28: One MI soil sample and two field replicates (100%), and one waste sample from the Geotube.
- Site 32: Nine soil samples and one field duplicate (11%).
- MOC: Fifteen groundwater samples and two field duplicates (13%), nine surface water samples and three field duplicates (33%), two-hundred fifty-eight soil samples and thirty-eight field duplicates (15%). Sixty-six primary bulk waste samples and six field duplicates (9%). One MI sample and two replicates (100%).
- Cargo Beach (Bag Staging Area): Six MI soil samples and two replicates (17%).

Field duplicates were typically not collected for waste samples, since these results were used for disposal purposes and the disposal facilities did not require it. The overall 10% frequency was met with the minor exception of the MOC bulk waste at a 9% frequency.

Field Duplicate RPDs

Table 2-1 lists the calculated RPDs between the field duplicate and parent sample results for target analytes that were outside of the 50% RPD for soil and 30% RPD for water samples. RPDs out of precision control and detected above the LOQ in both the parent and field duplicate sample were flagged QN. Analytes with one or both results below the LOQ had the RPDs calculated but neither result was flagged due to the inherent imprecision of the multiple methods below the LOQ. These results are not discussed, with the exception of samples 14NCWELLSS05 and 14NCWELLSS06 and their ethylbenzene results. The comparison below notes duplicate results with greater than an order of magnitude difference between results. The ethylbenzene result for sample 14NCWELLSS06 is at a concentration less than the LOQ at 15 µg/kg but the results differing by more than an order of magnitude (210 µg/kg) prompted the reviewer to flag the results. The 210 µg/kg result is still well below the 63,000 µg/kg cleanup level for ethybenzene, so the results can still be used to demonstrate that ethylbenzene is present but not over cleanup levels.

Table 2-1 lists the percent RSD calculated between the primary sample and two replicate samples for target analytes that were outside of the 30% RSD for those target analytes that were detected above the LOQ.

Table 2-1 Field Sample Duplicate Pair Results

Parent Sample ID/ Laboratory Sample ID	Field duplicate Sample ID/ Laboratory Sample ID	Compound	Units	Parent Field Sample Result	Field duplicate Result	RPD (%)
14NC21SS024-3	14NC21SS024-34	Arsenic Soil	mg/kg	6.1	3.4	**56.8**
PSP040	PSP085	RRO Soil	mg/kg	75	140	**60.4**
14NCMOCSP04	14NCMOCSP05	DRO Soil RRO Soil	mg/kg	**27000** 2600	**66000** **67000**	**83.9** **185**
MOC BW470	MOCBW565	RRO Soil	mg/kg	820	400	**69**
14NC10SS014	14NC10SS015 (Lab Replicate)	1,2,4-trimethylbenzene Chrysene Phenanthrene Soil	mg/kg	120 7.8 7	760 23 26	**145** **98.7** **115**
14NCMOCSW05	14NCMOCSW08	RRO Surface Water	mg/L	3.4	2.1	**47**
14NCWELLSS05	14NCWELLSS06	Ethylbenzene Soil	µg/kg	210	15 J B	**173**
14NCWELLSS13	14NCWELLSS14	Aroclor 1254 Soil	µg/kg	210	61	**110**
MOCBW567	MOCBW484	DRO Soil	mg/kg	1900	810	**80**
MOCBW481	MOCBW566	DRO Soil	mg/kg	1500	330	**128**
14NCPOSP065	14NCPOSP085	DRO Soil	Mg/kg	230	83	**94**
14NC08SWA02	14NC08SWA03	1-methynaphthalene 2-methylnaphthalene Fluorene Naphthalene DRO RRO Surface Water	µg/L µg/L µg/L µg/L mg/L mg/L	3.4 3.5 0.5 1.6 1.6 0.45	6.2 7.3 1.1 3.8 0.97 0.24	**58** **70** **75** **81** **49** **60**

Notes:

BOLD = Exceeds acceptance criteria except 14NCMOCSP04 and 14NCSP05, which exceed cleanup levels.

µg/L = micrograms per liter
DRO = diesel range organics
field dup = field duplicate
ID = identifier
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
RPD = relative percent difference
RRO = residual range organics

Table 2-2 Field Sample Triplicate Results

Sample ID	Target Analytes	Units	Parent Result	First Replicate Result	Second Replicate Result	RSD (%)
13NC28MI001	Fluoranthene	mg/kg	0.059	0.02	0.016	**75**
13NC28MI002	2-Methylnaphthalene		0.081	0.019	0.04	**68**
13NC28MI003	Fluorene		0.059	0.023	0.02	**34**
	Phenanathrene		0.073	0.025	0.025	**68**
	MI Soil Sample					

Notes:
BOLD = Exceeds acceptance criteria
% = percent
mg/kg = milligrams per kilogram
ID = identifier
RSD = relative standard deviation

The field duplicate RPDs and field triplicate RSDs were within control limits with the exceptions shown in bold on Tables 2-1 and 2-2. A total of 24 out of 1531 duplicate results (1.6%) did not meet RPD criteria. The out of control results for the parent, duplicate and triplicate sample results were QN qualified to indicate estimated results with an unknown bias. In addition, if one of the pair had a detection above the LOQ and one or more results were less than the LOQ, the RPD and RSD were calculated but not flagged for results outside of RPD or RSD acceptance limits, as there is a lower degree of analytical accuracy at concentrations less than the LOQ. No duplicate or replicate results were flagged if one or both results were reported at less than the LOQ with the exception of the ethylbenzene result for duplicate samples 13NCMOCWELLSS05/06. Only one set of duplicate results did not meet precision criteria, and showed results greater than cleanup (14NCMOCSP04/05) for DRO as well as RRO greater than cleanup level in one sample. The duplicate result was less than cleanup level. Project decisions were not affected by the out of control results, the sample soil associated with the results was collected from a stockpile that was ultimately disposed of off-site as DRO and RRO (POL) contaminated soil. All other results were also usable for project decisions to demonstrate that none of the precision biased sample results were greater than or anywhere near site-specific cleanup levels. Many of the affected result concentrations were within one order of

magnitude of the LOQ. The overall field duplicate imprecision was 1.6%, well below the 10% data quality objective for usable results.

2.15.2 Trip Blanks

Aqueous and soil trip blanks are included in shipments containing samples which are submitted to the laboratory for VOC, BTEX, GRO, and methane analyses. Trip blanks were submitted with project samples to assess the potential for VOC, BTEX, GRO or methane cross-contamination introduced by laboratory provided sample containers, storage during field operations, sample shipment and storage and analysis at the laboratory.

Trip blanks were included with shipments containing samples for VOC, BTEX, GRO, and methane analyses. Trip blanks were free of target analytes with some exceptions noted below:

580-44676-2: The trip blank had positive results for twelve VOC analytes. These analytes were also detected in the method blank, suggesting that the laboratory was the source of contamination. Affected sample results are B flagged to indicate blank contamination. The results are still usable for waste characterization and disposal purposes. None of the sample results exceeded the threshold for hazard determination.

580-44702-1: The trip blank had positive results for twenty VOC analytes. The GRO/VOC soil trip blank was also noted upon receipt as having a loose cap and possible loss of methanol, which may have allowed target analytes to contaminate the trip blank. Most of these analytes were also detected in the method blank, suggesting that the laboratory was the likely source of contamination. More than half of the analytes detected in the trip blank were not detected in any samples. Analytes detected in the trip blank and/or VOC method blank are B flagged to indicate blank contamination. Subsequent sampling following removal at the same sample locations

showed none of the analytes detected in the method blank or trip blank exceeded site specific cleanup levels in project samples.

580-44802-1: 1,2,4-trimetylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, m,p xylene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, tert-butylbenzene, and toluene were detected in both the trip blank and project samples. Sample results with concentrations less than 10 times the trip blank concentration are B flagged to indicate blank contamination with potential high bias.

580-44895-1: The trip blank was inadvertently excluded from the sample shipment. Sample results were not affected as the sample results had very high concentrations.

580-44911-1: 1,2,3-trichlorobenzene, acetone, tert-butylbenzene, methylene chloride, naphthalene, toluene and GRO were detected in the trip blank. 4-MIBK and naphthalene were detected in the trip blank and also detected in the 8260 method blank. GRO, 1,2,3-trichlorobenzene and 4-MIBK, were not detected in any samples, so no flagging was necessary for these analytes. Sample 14NC10SS024 had detections of acetone, tert-butylbenzene and naphthalene and those results are B flagged. Methylene chloride was detected in the trip blank and 7 of the 10 samples submitted in this work order. The trip blank methylene chloride result was 50 to 100 times greater than any sample result. Even the non-detect sample results were greater than the site specific cleanup level for methylene chloride, which is a very common laboratory contaminant. Methylene chloride was not detected in the 8260 method blank. Affected results are B flagged for blank contamination with potential high bias. Toluene was also detected in samples 14NC10SS029 and SS031 at concentrations less than 10 times the trip blank concentration and their toluene results are B flagged.

580-45105-1: Methylene chloride and toluene were positively detected in the trip blank. Neither of these analytes was detected in any project samples. It should be noted that methylene chloride was reported at a positive result nearly 200 times above

cleanup levels in the trip blank. It was not detected in any project samples in this work order but it has been reported in most of the trip blanks supplied by the lab for this project, so contamination during trip blank preparation at TestAmerica-Anchorage is suspected.

580-45122-1: Several analytes detected in the VOC method blank were also detected in the trip blank. 1,2 dichlorobenzene and GRO were detected in the trip blank but not the method blank. GRO results less than 10 times the trip blank result are B flagged. Most GRO results submitted with this trip blank are B flagged in this work order.

580-45125-1: Ethylbenzene, m, p and o-xylene were detected in the trip blank at concentrations less than the LOQ. All samples were ND for ethylbenzene except the trip blank itself. Sample 14NCMOCSW12 had xylene concentrations comparable to the trip blank concentration and those results are B flagged for blank contamination with potential high bias.

580-45126-1: Ethylbenzene, toluene, m,p and o-xylene and GRO were detected in the trip blank at concentrations greater than their respective LOQs and greatly higher than any sample concentration. The trip blank contamination is not explainable at such high concentrations. All three samples submitted in this work order had results flagged for trip blank contamination. Ethylbenzene and GRO were not detected in any samples. Xylenes and toluene were detected and results were B flagged. While the trip blank results bring the BTEX results into question, the results can still be used to demonstrate that the MI sample locations do not contain target analytes above their respective cleanup levels.

580-45739-1: 1,1 dichloroethene was detected in the trip blank at less than the LOQ and 2 samples (field duplicates), with one above the LOQ and one below the LOQ. Methylene chloride was detected in the trip blank at a concentration nearly 100 times

the cleanup level, it was not in any project samples. Toluene was detected in the method blank and the 2 field duplicates at concentrations less than the LOQ and greatly less than any cleanup levels for toluene. 1, 1, dichloroethene and toluene results for 14NC10SS045 and – SS046 (field duplicates) are B flagged. The blank contamination is lessening the degree of accuracy and definitive proof that 1,1 dichloroethene is actually present at the site. However, PCE and TCE were both detected in the drum contents at Site 10 and 1,2 DCE is a breakdown product of both PCE and TCE, so it is probable it is present at the site at concentrations above cleanup levels.

1143921-SGS: Methylene chloride was detected in the trip blank at 3,330 µg/kg, which is over 200 times the ADEC cleanup level. Laboratory contamination is highly suspect. Methylene chloride was not detected in any project samples, so no flagging was necessary.

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3.0 SENSITIVITY AND QUANTITATION LIMITS

Sensitivity is the capability of a test method or instrument to discriminate between measurement responses that represent different levels (e.g., concentrations) of a variable of interest. Examples of QC measures for determining sensitivity include laboratory-fortified blanks at the LOQ/ LOD studies, and the lowest calibration standards at or below the LOQ. In order to meet the needs of the data users, the project data must meet the measurement performance criteria for sensitivity and project LOQs. Analytical factors, such as dilutions or high percent soil moisture, may elevate the reporting limits for all target constituents. Other factors, such as low initial soil weights may also elevate limits.

Overall sensitivity and reporting for the project met quantitation reporting limits with minor exceptions.

580-44702-1: Site 10 confirmation soil samples and drum contents were analyzed for full list VOCs and, as stated in the QAPP, chloromethane, 1,2 dibromoethene (EDB), as well as 1,2-dibromoethane and 1,2,3-trichloropropane had the limit of detection greater than the soil cleanup level. Additionally, sample 14CN10SS006 had 1,1,2,2 tetrachloroethene and vinyl chloride exceed the cleanup level with a non-detect result due to high percent moisture elevating reporting limits. All Site 10 results were non-detect for all four analytes and none were detected in the drum liquid contents, which is considered the point source of contamination at Site 10. Only Site 10 soils were analyzed for full list VOCs.

580-44911-1: Most Site 10 samples in this work order had non-detect results for 1,2,3-trichloropropane, 1,2-dibromoethane, 1,2-dichloroethane, methylene chloride and vinyl chloride exceed the site-specific cleanup levels at the LOD. 1,2-dibromoethane and 1,2,3-trichloropropane were noted in the QAPP as having reporting limits greater than site specific cleanup levels. The other non-detect analytes

had their reporting limits raised due to high moisture in the samples elevating reporting limits above cleanup levels for the five analytes identified in this section as having reporting limits greater than cleanup levels.

580-45105-1: 1,2,3-trichloropropane, 1,2 dibromoethane, methylene chloride and vinyl chloride had non-detect results greater than the cleanup levels at the LOD. 1,2,3-trichloropropane and 1,2 dibromoethane were noted in the QAPP as having empirical reporting limits greater than the cleanup levels. The other analytes had reporting limits for non-detects elevated above cleanup levels due to percent moisture in soil. Non-detect analytes with reporting limits above cleanup levels are bolded on the results table for soil excavation at Site 10.

580-45739-1: Ten (10) VOC analytes had limit of detections (LODs) greater than cleanup levels in at least two samples. Four of these analytes had been identified in the QAPP as having LODs greater than cleanup levels. The other six analytes had higher reporting due to low mass in the initial sample as well as high moisture, which also decreases the amount of sample mass on a dry weight basis.

1143921-SGS: 1,2,3 trichloropropane and dibromoethane (EDB) were noted in the QAPP as having empirical reporting limits greater than the cleanup levels. The reporting limits presented by SGS assume 50 grams of sample (dry weight) per 25 mL of methanol in order to achieve their stated reporting limits. The primary laboratory cited in the QAPP assumes a 1:1 ratio of soil (dry weight) to meet empirical reporting limits. The error was assuming SGS had similar reporting limits, which in fact they do not, hence the ND results at the LOD exceed the cleanup levels for the above noted analytes.

3.1 SENSITIVITY SUMMARY

The overall project sensitivity was met with few exceptions. The majority of analyses met reporting limits. VOC soil samples collected at Site 10 represented the only instance where reporting limits did not meet sensitivity requirements. Besides the analytes identified in the QAPP as not meeting sensitivity requirements, 12 other analytes did not meet sensitivity in at least one confirmation sample. Because Site 10 is a former drum dump, analytes identified in drum contents were of particular concern and warranted more scrutiny; tetrachloroethene, trichloroethene, and their reductive dechlorination daughter products dichloroethene, dichloroethane and vinyl chloride. Sensitivity issues with these analytes lessen the degree of accuracy for determination if the site is cleaned up below all actions levels. However, final confirmation of soil results indicate that soil remains at the site with contaminants positively identified with unqualified results above cleanup levels. These contaminants were also identified in drum contents removed from the site during remedial activities. A liner was placed in the excavation over soil surfaces within the excavation with soil locations exceeding site-specific cleanup levels.

Overall project sensitivity was met. Some Site 10 results with non-detect results exceeded cleanup levels for compounds of particular concern. While results are still usable, further sampling and QAPP identified compounds of particular concern should be collected with low-level soil techniques in order to meet definitive reporting limits for making project decisions at Site 10.

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4.0 SUMMARY

This Report evaluates analytical data generated June through October 2014, during the NE Cape Remedial Actions. This assessment evaluated whether program objectives and data quality goals were met. The assessment reviewed sample receipt conditions, extraction and analytical procedures, sampling procedures, and correspondence to method criteria and project DQOs.

The overall data quality and completeness was met for the project.

- Site 10 results had some QC issues, mostly related to matrix interference and high concentrations of target analytes which interfered with other analyses. Elevated reporting limits for several compounds of particular concern made final data driven decisions more difficult to demonstrate that site specific cleanup goals had been achieved.
- MOC soil and water results were acceptable with minor QC issues, mostly related to high concentrations of target analytes (DRO) and the inaccuracies of MS/MSDs with high parent sample concentrations.
- Site 21 sample results had only minor QC issues in both soil and water matrices. However, the results were usable in determining areas where arsenic levels were either above or below cleanup levels.
- Overall, the project met its data quality objectives. No results were rejected based on data review and all data was complete and reportable. Some results are estimates due to minor QC issues during analyses. All samples collected for analysis had reportable results that were usable for project purposes.

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ATTACHMENT 1

Sample Summary Report

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44007-1	580-44007-1	14NC21SS001-1	Solid	6/11/2014 9:10	1-foot	6020	TestAmerica Seattle	MS/MSD	SS001-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-2	14NC21SS001-2	Solid	6/11/2014 9:20	2-foot	6020	TestAmerica Seattle		SS001-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-3	14NC21SS001-3	Solid	6/11/2014 9:25	3-foot	6020	TestAmerica Seattle		SS001-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-4	14NC21SS002-1	Solid	6/11/2014 10:00	1-foot	6020	TestAmerica Seattle		SS002-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-5	14NC21SS002-2	Solid	6/11/2014 9:50	2-foot	6020	TestAmerica Seattle		SS002-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-6	14NC21SS002-3	Solid	6/11/2014 9:45	3-foot	6020	TestAmerica Seattle		SS002-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-7	14NC21SS003-1	Solid	6/11/2014 10:22	1-foot	6020	TestAmerica Seattle		SS003-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-8	14NC21SS003-2	Solid	6/11/2014 10:16	2-foot	6020	TestAmerica Seattle		SS003-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-9	14NC21SS003-3	Solid	6/11/2014 10:15	3-foot	6020	TestAmerica Seattle		SS003-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-10	14NC21SS004-1	Solid	6/11/2014 10:38	1-foot	6020	TestAmerica Seattle		SS004-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-11	14NC21SS004-2	Solid	6/11/2014 10:36	2-foot	6020	TestAmerica Seattle		SS004-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-12	14NC21SS004-3	Solid	6/11/2014 10:35	3-foot	6020	TestAmerica Seattle		SS004-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-13	14NC21SS005-1	Solid	6/11/2014 10:54	1-foot	6020	TestAmerica Seattle		SS005-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-14	14NC21SS005-2	Solid	6/11/2014 10:51	2-foot	6020	TestAmerica Seattle		SS005-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-15	14NC21SS005-3	Solid	6/11/2014 10:49	3-foot	6020	TestAmerica Seattle		SS005-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-16	14NC21SS005-4	Solid	6/11/2014 10:56	3-foot	6020	TestAmerica Seattle	Dup SS005-03	SS005-4	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-17	14NC21SS006-1	Solid	6/11/2014 11:25	1-foot	6020	TestAmerica Seattle		SS006-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-18	14NC21SS006-2	Solid	6/11/2014 11:22	2-foot	6020	TestAmerica Seattle		SS006-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-19	14NC21SS006-3	Solid	6/11/2014 11:17	3-foot	6020	TestAmerica Seattle	MS/MSD	SS006-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-20	14NC21SS007-1	Solid	6/11/2014 11:46	1-foot	6020	TestAmerica Seattle		SS007-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-21	14NC21SS007-2	Solid	6/11/2014 11:40	2-foot	6020	TestAmerica Seattle		SS007-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-22	14NC21SS007-3	Solid	6/11/2014 11:38	3-foot	6020	TestAmerica Seattle		SS007-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-23	14NC21SS008-1	Solid	6/11/2014 13:16	1-foot	6020	TestAmerica Seattle		SS008-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-24	14NC21SS008-2	Solid	6/11/2014 13:12	2-foot	6020	TestAmerica Seattle		SS008-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-25	14NC21SS008-3	Solid	6/11/2014 13:05	3-foot	6020	TestAmerica Seattle		SS008-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-26	14NC21SS008-4	Solid	6/11/2014 13:10	3-foot	6020	TestAmerica Seattle	Dup 008-3	SS008-4	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-27	14NC21SS009-1	Solid	6/11/2014 13:38	1-foot	6020	TestAmerica Seattle		SS009-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-28	14NC21SS009-2	Solid	6/11/2014 13:33	2-foot	6020	TestAmerica Seattle		SS009-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-29	14NC21SS009-3	Solid	6/11/2014 13:31	3-foot	6020	TestAmerica Seattle		SS009-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-30	14NC21SS010-1	Solid	6/11/2014 13:57	1-foot	6020	TestAmerica Seattle		SS010-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-31	14NC21SS010-2	Solid	6/11/2014 13:54	2-foot	6020	TestAmerica Seattle		SS010-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-32	14NC21SS010-3	Solid	6/11/2014 13:50	3-foot	6020	TestAmerica Seattle		SS010-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-33	14NC21SS010-4	Solid	6/11/2014 13:51	3-foot	6020	TestAmerica Seattle	Dup 21SS010-3	SS010-4	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-34	14NC21SS011-1	Solid	6/11/2014 14:17	1-foot	6020	TestAmerica Seattle		SS011-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-35	14NC21SS011-2	Solid	6/11/2014 14:14	2-foot	6020	TestAmerica Seattle		SS011-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-36	14NC21SS011-3	Solid	6/11/2014 14:10	3-foot	6020	TestAmerica Seattle		SS011-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-37	14NC21SS012-1	Solid	6/11/2014 15:23	1-foot	6020	TestAmerica Seattle		SS012-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-38	14NC21SS012-2	Solid	6/11/2014 15:15	2-foot	6020	TestAmerica Seattle		SS012-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-39	14NC21SS012-3	Solid	6/11/2014 15:16	3-foot	6020	TestAmerica Seattle		SS012-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-40	14NC21SS013-1	Solid	6/11/2014 15:57	1-foot	6020	TestAmerica Seattle		SS013-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-41	14NC21SS013-2	Solid	6/11/2014 15:52	2-foot	6020	TestAmerica Seattle		SS013-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-42	14NC21SS013-3	Solid	6/11/2014 15:47	3-foot	6020	TestAmerica Seattle		SS013-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-43	14NC21SS014-1	Solid	6/11/2014 16:19	1-foot	6020	TestAmerica Seattle		SS014-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-44	14NC21SS014-2	Solid	6/11/2014 16:15	2-foot	6020	TestAmerica Seattle		SS014-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-45	14NC21SS014-3	Solid	6/11/2014 16:10	3-foot	6020	TestAmerica Seattle		SS014-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-46	14NC21SS015-1	Solid	6/11/2014 16:47	1-foot	6020	TestAmerica Seattle		SS015-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-47	14NC21SS015-2	Solid	6/11/2014 16:41	1-foot	6020	TestAmerica Seattle		SS015-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-48	14NC21SS015-3	Solid	6/11/2014 16:32	3-foot	6020	TestAmerica Seattle		SS015-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-49	14NC21SS015-4	Solid	6/11/2014 16:49	1-foot	6020	TestAmerica Seattle	Dup 21SS015-1	SS015-4	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-50	14NC21SS016-1	Solid	6/11/2014 17:09	1-foot	6020	TestAmerica Seattle		SS016-1	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-51	14NC21SS016-2	Solid	6/11/2014 17:02	2-foot	6020	TestAmerica Seattle		SS016-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-52	14NC21SS016-3	Solid	6/11/2014 17:00	3-foot	6020	TestAmerica Seattle	MS/MSD	SS016-3	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-53	14NC21SS017-1	Solid	6/11/2014 17:19	1-foot	6020	TestAmerica Seattle		SS017-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-54	14NC21SS017-2	Solid	6/11/2014 17:16	2-foot	6020	TestAmerica Seattle		SS017-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-55	14NC21SS017-3	Solid	6/11/2014 17:14	3-foot	6020	TestAmerica Seattle		SS017-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-56	14NC21SS017-4	Solid	6/11/2014 17:15	2-foot	6020	TestAmerica Seattle	Dup 017-2	SS017-4	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-57	14NC21SS018-1	Solid	6/11/2014 17:37	1-foot	6020	TestAmerica Seattle		SS018-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-58	14NC21SS018-2	Solid	6/11/2014 17:32	2-foot	6020	TestAmerica Seattle	MS/MSD	SS018-2	EB	Cool	614-02	4_Days	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44007-1	580-44007-59	14NC21SS018-3	Solid	6/11/2014 17:29	3-foot	6020	TestAmerica Seattle		SS018-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-60	14NC21SS019-1	Solid	6/12/2014 9:00	1-foot	6020	TestAmerica Seattle		SS019-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-61	14NC21SS019-2	Solid	6/12/2014 8:57	2-foot	6020	TestAmerica Seattle		SS019-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-62	14NC21SS019-3	Solid	6/12/2014 8:49	3-foot	6020	TestAmerica Seattle		SS019-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-72	14NC21SS019-4	Solid	6/12/2014 8:58	2-foot	6020	TestAmerica Seattle	Dup 019-2	SS019-4	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-63	14NC21SS020-1	Solid	6/12/2014 9:25	1-foot	6020	TestAmerica Seattle		SS020-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-64	14NC21SS020-2	Solid	6/12/2014 9:21	2-foot	6020	TestAmerica Seattle		SS020-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-65	14NC21SS020-3	Solid	6/12/2014 9:19	3-foot	6020	TestAmerica Seattle		SS020-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-66	14NC21SS021-1	Solid	6/12/2014 10:00	1-foot	6020	TestAmerica Seattle		SS021-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-67	14NC21SS021-2	Solid	6/12/2014 9:55	2-foot	6020	TestAmerica Seattle		SS021-2	EB	Cool	614-01	4_Days	Soil jar 4oz
580-44007-1	580-44007-68	14NC21SS021-3	Solid	6/12/2014 9:52	3-foot	6020	TestAmerica Seattle		SS021-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-69	14NC21SS022-1	Solid	6/12/2014 10:16	1-foot	6020	TestAmerica Seattle		SS022-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-70	14NC21SS022-2	Solid	6/12/2014 10:15	2-foot	6020	TestAmerica Seattle		SS022-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-71	14NC21SS022-3	Solid	6/12/2014 10:12	3-foot	6020	TestAmerica Seattle		SS022-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-73	14NC21SS023-1	Solid	6/12/2014 11:35	1-foot	6020	TestAmerica Seattle		SS023-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-74	14NC21SS023-2	Solid	6/12/2014 11:29	2-foot	6020	TestAmerica Seattle		SS023-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-75	14NC21SS023-3	Solid	6/12/2014 11:28	3-foot	6020	TestAmerica Seattle		SS023-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-76	14NC21SS024-1	Solid	6/12/2014 11:57	1-foot	6020	TestAmerica Seattle		SS024-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-77	14NC21SS024-2	Solid	6/12/2014 11:55	2-foot	6020	TestAmerica Seattle		SS024-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-78	14NC21SS024-3	Solid	6/12/2014 11:51	3-foot	6020	TestAmerica Seattle		SS024-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-79	14NC21SS025-1	Solid	6/12/2014 12:23	1-foot	6020	TestAmerica Seattle		SS025-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-80	14NC21SS025-2	Solid	6/12/2014 12:15	2-foot	6020	TestAmerica Seattle		SS025-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-81	14NC21SS025-3	Solid	6/12/2014 12:13	3-foot	6020	TestAmerica Seattle		SS025-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-82	14NC21SS025-4	Solid	6/12/2014 12:22	2-foot	6020	TestAmerica Seattle	Dup 025-2	SS025-4	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-83	14NC21SS026-1	Solid	6/12/2014 14:20	1-foot	6020	TestAmerica Seattle		SS026-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-84	14NC21SS026-2	Solid	6/12/2014 14:19	2-foot	6020	TestAmerica Seattle		SS026-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-85	14NC21SS026-3	Solid	6/12/2014 14:18	3-foot	6020	TestAmerica Seattle		SS026-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-86	14NC21SS027-1	Solid	6/12/2014 14:45	1-foot	6020	TestAmerica Seattle		SS027-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-87	14NC21SS027-2	Solid	6/12/2014 14:40	2-foot	6020	TestAmerica Seattle		SS027-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-88	14NC21SS027-3	Solid	6/12/2014 14:37	3-foot	6020	TestAmerica Seattle		SS027-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-96	14NC21SS027-4	Solid	6/12/2014 14:38	3-foot	6020	TestAmerica Seattle	Dup 27-3	SS027-4	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-89	14NC21SS028-1	Solid	6/12/2014 15:00	1-foot	6020	TestAmerica Seattle		SS028-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-90	14NC21SS028-2	Solid	6/12/2014 14:58	2-foot	6020	TestAmerica Seattle	MS/MSD	SS028-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-91	14NC21SS028-3	Solid	6/12/2014 14:56	3-foot	6020	TestAmerica Seattle		SS028-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-92	14NC21SS029-1	Solid	6/12/2014 15:22	1-foot	6020	TestAmerica Seattle		SS029-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-93	14NC21SS029-2	Solid	6/12/2014 15:20	2-foot	6020	TestAmerica Seattle		SS029-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-94	14NC21SS029-3	Solid	6/12/2014 15:18	3-foot	6020	TestAmerica Seattle		SS029-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-95	14NC21SS029-4	Solid	6/12/2014 15:23	1-foot	6020	TestAmerica Seattle	Dup 029-1	SS029-4	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-97	14NC21SS030-1	Solid	6/12/2014 15:44	1-foot	6020	TestAmerica Seattle		SS030-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-98	14NC21SS030-2	Solid	6/12/2014 15:43	2-foot	6020	TestAmerica Seattle		SS030-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-99	14NC21SS030-3	Solid	6/12/2014 15:40	3-foot	6020	TestAmerica Seattle		SS030-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-100	14NC21SS031-1	Solid	6/12/2014 15:59	1-foot	6020	TestAmerica Seattle		SS031-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-101	14NC21SS031-2	Solid	6/12/2014 15:57	2-foot	6020	TestAmerica Seattle		SS031-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-102	14NC21SS031-3	Solid	6/12/2014 15:55	3-foot	6020	TestAmerica Seattle		SS031-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-103	14NC21SS032-1	Solid	6/12/2014 16:16	1-foot	6020	TestAmerica Seattle		SS032-1	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-104	14NC21SS032-2	Solid	6/12/2014 16:14	2-foot	6020	TestAmerica Seattle		SS032-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-105	14NC21SS032-3	Solid	6/12/2014 16:11	3-foot	6020	TestAmerica Seattle		SS032-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-106	14NC21SS033-1	Solid	6/12/2014 16:38	1-foot	6020	TestAmerica Seattle		SS033-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-107	14NC21SS033-2	Solid	6/12/2014 16:37	2-foot	6020	TestAmerica Seattle		SS033-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-108	14NC21SS033-3	Solid	6/12/2014 16:34	3-foot	6020	TestAmerica Seattle		SS033-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-109	14NC21SS033-4	Solid	6/12/2014 16:38	2-foot	6020	TestAmerica Seattle	Dup 033-2	SS033-4	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-110	14NC21SS034-1	Solid	6/12/2014 17:03	1-foot	6020	TestAmerica Seattle		SS034-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-111	14NC21SS034-2	Solid	6/12/2014 17:00	2-foot	6020	TestAmerica Seattle		SS034-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-112	14NC21SS034-3	Solid	6/12/2014 16:58	3-foot	6020	TestAmerica Seattle		SS034-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-113	14NC21SS035-1	Solid	6/13/2014 8:32	1-foot	6020	TestAmerica Seattle		SS035-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-114	14NC21SS035-2	Solid	6/13/2014 8:24	2-foot	6020	TestAmerica Seattle		SS035-2	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-115	14NC21SS035-3	Solid	6/13/2014 8:23	3-foot	6020	TestAmerica Seattle	MS/MSD	SS035-3	EB	Cool	614-02	4_Days	Soil jar 4oz
580-44007-1	580-44007-116	14NC21SS035-4	Solid	6/13/2014 8:25	2-foot	6020	TestAmerica Seattle	Dup 035-2	SS035-4	EB	Cool	614-03	4_Days	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44007-1	580-44007-117	14NC21SS036-1	Solid	6/13/2014 8:50	1-foot	6020	TestAmerica Seattle		SS036-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-118	14NC21SS036-2	Solid	6/13/2014 8:46	2-foot	6020	TestAmerica Seattle	MS/MSD	SS036-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-119	14NC21SS036-3	Solid	6/13/2014 8:42	3-foot	6020	TestAmerica Seattle		SS036-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-120	14NC21SS036-4	Solid	6/13/2014 8:43	3-foot	6020	TestAmerica Seattle	Dup 036-3	SS036-4	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-121	14NC21SS037-1	Solid	6/13/2014 9:06	1-foot	6020	TestAmerica Seattle		SS037-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-122	14NC21SS037-2	Solid	6/13/2014 9:03	2-foot	6020	TestAmerica Seattle		SS037-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-123	14NC21SS037-3	Solid	6/13/2014 9:00	3-foot	6020	TestAmerica Seattle		SS037-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-124	14NC21SS038-1	Solid	6/13/2014 9:30	1-foot	6020	TestAmerica Seattle		SS038-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-125	14NC21SS038-2	Solid	6/13/2014 9:27	2-foot	6020	TestAmerica Seattle		SS038-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-126	14NC21SS038-3	Solid	6/13/2014 9:26	3-foot	6020	TestAmerica Seattle		SS038-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-127	14NC21SS039-1	Solid	6/13/2014 9:55	1-foot	6020	TestAmerica Seattle		SS039-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-128	14NC21SS039-2	Solid	6/13/2014 9:51	2-foot	6020	TestAmerica Seattle		SS039-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-129	14NC21SS039-3	Solid	6/13/2014 9:47	3-foot	6020	TestAmerica Seattle		SS039-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-130	14NC21SS040-1	Solid	6/13/2014 10:02	1-foot	6020	TestAmerica Seattle		SS040-1	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-131	14NC21SS040-2	Solid	6/13/2014 10:04	2-foot	6020	TestAmerica Seattle		SS040-2	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44007-1	580-44007-132	14NC21SS040-3	Solid	6/13/2014 10:11	3-foot	6020	TestAmerica Seattle		SS040-3	EB	Cool	614-03	4_Days	Soil jar 4oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	6020	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	7471A	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	8082	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	8260B	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	8270C SIM	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	AK101	TestAmerica Seattle		WCSD01	EB	Methanol	614-03	15_Days	Soil jar 4oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	AK102 & 103	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-1	13NC28WCSD01	Solid	6/14/2014 9:37	Waste	AK102 & 103	TestAmerica Seattle		WCSD01	EB	Cool	614-03	15_Days	Soil jar 8oz
580-44016-1	580-44016-2	13NC28WCTB01	Solid	6/14/2014 9:37	NA	AK101	TestAmerica Seattle	Trip Blank	WCTB01	EB	Methanol	614-03	15_Days	Soil jar 4oz
580-44658-1	580-44658-1	PSP001	Solid	7/23/2014 15:59	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	PSP001	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-2	PSP002	Solid	7/23/2014 16:00	0-4"	AK102 & 103	TestAmerica Seattle		PSP002	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-3	PSP003	Solid	7/23/2014 16:01	0-4"	AK102 & 103	TestAmerica Seattle		PSP003	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-4	PSP004	Solid	7/23/2014 16:02	0-4"	AK102 & 103	TestAmerica Seattle		PSP004	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-5	PSP005	Solid	7/23/2014 16:03	0-4"	AK102 & 103	TestAmerica Seattle		PSP005	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-6	PSP006	Solid	7/23/2014 16:04	0-4"	AK102 & 103	TestAmerica Seattle		PSP006	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-7	PSP007	Solid	7/23/2014 16:04	0-4"	AK102 & 103	TestAmerica Seattle		PSP007	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-8	PSP008	Solid	7/23/2014 16:05	0-4"	AK102 & 103	TestAmerica Seattle		PSP008	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-9	PSP009	Solid	7/23/2014 16:06	0-4"	AK102 & 103	TestAmerica Seattle		PSP009	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-10	PSP010	Solid	7/23/2014 16:08	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP082	PSP010	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-11	PSP011	Solid	7/23/2014 16:11	0-4"	AK102 & 103	TestAmerica Seattle		PSP011	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-12	PSP012	Solid	7/23/2014 16:11	0-4"	AK102 & 103	TestAmerica Seattle		PSP012	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-13	PSP013	Solid	7/23/2014 16:12	0-4"	AK102 & 103	TestAmerica Seattle		PSP013	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-14	PSP014	Solid	7/23/2014 16:12	0-4"	AK102 & 103	TestAmerica Seattle		PSP014	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-15	PSP015	Solid	7/23/2014 16:13	0-4"	AK102 & 103	TestAmerica Seattle		PSP015	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-16	PSP016	Solid	7/23/2014 16:14	0-4"	AK102 & 103	TestAmerica Seattle		PSP016	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-17	PSP017	Solid	7/23/2014 16:14	0-4"	AK102 & 103	TestAmerica Seattle		PSP017	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-18	PSP018	Solid	7/23/2014 16:15	0-4"	AK102 & 103	TestAmerica Seattle		PSP018	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-19	PSP019	Solid	7/23/2014 16:16	0-4"	AK102 & 103	TestAmerica Seattle		PSP019	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44658-1	580-44658-20	PSP020	Solid	7/23/2014 16:18	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP083	PSP020	EB	Cool	Blue	1_Day_RUS	Soil jar 4oz
580-44660-1	580-44660-1	PSP021	Solid	7/23/2014 16:19	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	PSP021	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-2	PSP022	Solid	7/23/2014 16:25	0-4"	AK102 & 103	TestAmerica Seattle		PSP022	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-3	PSP023	Solid	7/23/2014 16:27	0-4"	AK102 & 103	TestAmerica Seattle		PSP023	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-4	PSP024	Solid	7/23/2014 16:28	0-4"	AK102 & 103	TestAmerica Seattle		PSP024	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-5	PSP025	Solid	7/23/2014 16:29	0-4"	AK102 & 103	TestAmerica Seattle		PSP025	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-6	PSP026	Solid	7/23/2014 16:30	0-4"	AK102 & 103	TestAmerica Seattle		PSP026	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-7	PSP027	Solid	7/23/2014 16:31	0-4"	AK102 & 103	TestAmerica Seattle		PSP027	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-8	PSP028	Solid	7/23/2014 16:32	0-4"	AK102 & 103	TestAmerica Seattle		PSP028	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-9	PSP029	Solid	7/23/2014 16:32	0-4"	AK102 & 103	TestAmerica Seattle		PSP029	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-10	PSP030	Solid	7/23/2014 16:34	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP084	PSP030	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-11	PSP031	Solid	7/23/2014 16:35	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP031	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-12	PSP032	Solid	7/23/2014 16:37	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP032	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44660-1	580-44660-13	PSP033	Solid	7/23/2014 16:38	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP033	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-14	PSP034	Solid	7/23/2014 16:39	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP034	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-15	PSP035	Solid	7/23/2014 16:40	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP035	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-16	PSP036	Solid	7/23/2014 16:41	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP036	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-17	PSP037	Solid	7/23/2014 16:41	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP037	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-18	PSP038	Solid	7/23/2014 16:42	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP038	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-19	PSP039	Solid	7/23/2014 16:42	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP039	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44660-1	580-44660-20	PSP040	Solid	7/23/2014 16:44	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP085	PSP040	EB	Cool	Blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-1	PSP041	Solid	7/23/2014 16:46	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP041	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-2	PSP042	Solid	7/23/2014 16:47	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP042	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-3	PSP043	Solid	7/23/2014 16:48	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP043	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-4	PSP044	Solid	7/23/2014 16:48	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP044	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-5	PSP045	Solid	7/23/2014 16:49	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP045	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-6	PSP046	Solid	7/23/2014 16:50	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP046	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-7	PSP047	Solid	7/23/2014 16:50	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP047	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-8	PSP048	Solid	7/23/2014 16:51	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP048	EB	Cool	blue	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-9	PSP049	Solid	7/23/2014 16:54	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP049	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-10	PSP050	Solid	7/23/2014 16:56	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP086	PSP050	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-11	PSP051	Solid	7/23/2014 16:57	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP051	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-12	PSP052	Solid	7/23/2014 16:58	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP052	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-13	PSP053	Solid	7/23/2014 17:00	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP053	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-14	PSP054	Solid	7/23/2014 17:00	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP054	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-15	PSP055	Solid	7/23/2014 16:58	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP055	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-16	PSP056	Solid	7/23/2014 17:01	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP056	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-17	PSP057	Solid	7/23/2014 16:59	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP057	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-18	PSP058	Solid	7/23/2014 17:00	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP058	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-19	PSP059	Solid	7/23/2014 17:05	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP059	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44662-1	580-44662-20	PSP060	Solid	7/23/2014 17:03	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP087	PSP060	EB	Cool	red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-1	PSP061	Solid	7/23/2014 17:07	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP061	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-2	PSP062	Solid	7/23/2014 17:01	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP062	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-3	PSP063	Solid	7/23/2014 17:08	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP063	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-4	PSP064	Solid	7/23/2014 17:04	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP064	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-5	PSP065	Solid	7/23/2014 17:04	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP065	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-6	PSP066	Solid	7/23/2014 17:07	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP066	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-7	PSP067	Solid	7/23/2014 17:04	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP067	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-8	PSP068	Solid	7/23/2014 17:05	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP068	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-9	PSP069	Solid	7/23/2014 17:07	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP069	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-10	PSP070	Solid	7/23/2014 17:06	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP088	PSP070	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-11	PSP071	Solid	7/23/2014 17:08	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP071	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-12	PSP072	Solid	7/23/2014 17:07	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP072	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-13	PSP073	Solid	7/23/2014 17:10	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP073	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-14	PSP074	Solid	7/23/2014 17:10	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP074	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-15	PSP075	Solid	7/23/2014 17:13	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP089	PSP075	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-16	PSP076	Solid	7/23/2014 17:11	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP076	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-17	PSP077	Solid	7/23/2014 17:10	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP077	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-18	PSP078	Solid	7/23/2014 17:12	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP078	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-19	PSP079	Solid	7/23/2014 17:12	0-4"	AK102 & 103	TestAmerica Seattle	---	PSP079	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44663-1	580-44663-20	PSP080	Solid	7/23/2014 17:15	0-4"	AK102 & 103	TestAmerica Seattle	(Duplicate) PSP090	PSP080	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-1	PSP081	Solid	7/23/2014 17:12	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	PSP081	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-2	PSP082	Solid	7/23/2014 17:13	0-4"	AK102 & 103	TestAmerica Seattle		PSP082	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-3	PSP083	Solid	7/23/2014 17:14	0-4"	AK102 & 103	TestAmerica Seattle		PSP083	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-4	PSP084	Solid	7/23/2014 17:15	0-4"	AK102 & 103	TestAmerica Seattle		PSP084	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-5	PSP085	Solid	7/23/2014 17:16	0-4"	AK102 & 103	TestAmerica Seattle		PSP085	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-6	PSP086	Solid	7/23/2014 17:17	0-4"	AK102 & 103	TestAmerica Seattle		PSP086	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-7	PSP087	Solid	7/23/2014 17:18	0-4"	AK102 & 103	TestAmerica Seattle		PSP087	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-8	PSP088	Solid	7/23/2014 17:19	0-4"	AK102 & 103	TestAmerica Seattle		PSP088	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44665-1	580-44665-9	PSP089	Solid	7/23/2014 17:20	0-4"	AK102 & 103	TestAmerica Seattle		PSP089	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44665-1	580-44665-10	PSP090	Solid	7/23/2014 17:21	0-4"	AK102 & 103	TestAmerica Seattle		PSP090	EB	Cool	Red	1_Day_RUS	Soil Jar 4oz Amb
580-44676-1	580-44676-1	14NCMOCSW01	Water	7/23/2014 15:40	surface	8260B	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-2	14NCMOCSW02	Water	7/23/2014 16:10	surface	8260B	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-3	14NCMOCSW03	Water	7/23/2014 16:30	surface	8260B	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	072514-04	15_Days	Voa Vial 40ml
580-44676-1	580-44676-4	14NCMOCSW04	Water	7/23/2014 15:50	surface	8260B	TestAmerica Seattle	Dup of SW01	MOCSW04	EB	Hydrochloric Acid	072514-05	15_Days	Voa Vial 40ml
580-44676-1	580-44676-5	Trip Blank 072514-1	Water	7/25/2014 0:00	surface	8260B	TestAmerica Seattle	Trip Blank	Trip Blank		Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-1	14NCMOCSW01	Water	7/23/2014 15:40	surface	8260B	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-2	14NCMOCSW02	Water	7/23/2014 16:10	surface	8260B	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-3	14NCMOCSW03	Water	7/23/2014 16:30	surface	8260B	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	072514-04	15_Days	Voa Vial 40ml
580-44676-1	580-44676-4	14NCMOCSW04	Water	7/23/2014 15:50	surface	8260B	TestAmerica Seattle	Dup of SW01	MOCSW04	EB	Hydrochloric Acid	072514-05	15_Days	Voa Vial 40ml
580-44676-1	580-44676-1	14NCMOCSW01	Water	7/23/2014 15:40	surface	8270C SIM	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-2	14NCMOCSW02	Water	7/23/2014 16:10	surface	8270C SIM	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-3	14NCMOCSW03	Water	7/23/2014 16:30	surface	8270C SIM	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	072514-04	15_Days	Voa Vial 40ml
580-44676-1	580-44676-4	14NCMOCSW04	Water	7/23/2014 15:50	surface	8270C SIM	TestAmerica Seattle	Dup of SW01	MOCSW04	EB	Hydrochloric Acid	072514-05	15_Days	Voa Vial 40ml
580-44676-1	580-44676-1	14NCMOCSW01	Water	7/23/2014 15:40	surface	AK102 & 103	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-2	14NCMOCSW02	Water	7/23/2014 16:10	surface	AK102 & 103	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-3	14NCMOCSW03	Water	7/23/2014 16:30	surface	AK102 & 103	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	072514-04	15_Days	Voa Vial 40ml
580-44676-1	580-44676-4	14NCMOCSW04	Water	7/23/2014 15:50	surface	AK102 & 103	TestAmerica Seattle	Dup of SW01	MOCSW04	EB	Hydrochloric Acid	072514-05	15_Days	Voa Vial 40ml
580-44676-1	580-44676-1	14NCMOCSW01	Water	7/23/2014 15:40	surface	AK101	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-2	14NCMOCSW02	Water	7/23/2014 16:10	surface	AK101	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-1	580-44676-3	14NCMOCSW03	Water	7/23/2014 16:30	surface	AK101	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	072514-04	15_Days	Voa Vial 40ml
580-44676-1	580-44676-4	14NCMOCSW04	Water	7/23/2014 15:50	surface	AK101	TestAmerica Seattle	Dup of SW01	MOCSW04	EB	Hydrochloric Acid	072514-05	15_Days	Voa Vial 40ml
580-44676-1	580-44676-5	Trip Blank 072514-1	Water	7/25/2014 0:00	surface	AK101	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	072514-03	15_Days	Voa Vial 40ml
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	6020	TestAmerica Seattle	MS/MSD	14NCBTW1	EB	Nitric Acid	072514-02	3_Days	Plastic 250ml
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	1020A	TestAmerica Seattle		14NCBTW1	EB	Cool	072514-02	3_Days	Plastic 250ml
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	7470A	TestAmerica Seattle		14NCBTW1	EB	Nitric Acid	072514-02	3_Days	Plastic 250ml
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	8082	TestAmerica Seattle		14NCBTW1	EB	Cool	072514-02	3_Days	Amber Glass 1 li
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	8260C	TestAmerica Seattle		14NCBTW1	EB	Hydrochloric Acid	072514-02	3_Days	Voa Vial 40ml
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	8270D	TestAmerica Seattle		14NCBTW1	EB	Cool	072514-02	3_Days	Amber Glass 1 li
580-44676-2	580-44676-6	14NCBOOTWASH1	Water	7/24/2014 11:30	Waste	9040B	TestAmerica Seattle		14NCBTW1	EB	Cool	072514-02	3_Days	Amber Glass 1 li
580-44676-2	580-44676-7	14NCBOOTWASH2	Water	7/24/2014 15:00	Waste	8082	TestAmerica Seattle		14NCBTW2	EB	Cool	072514-02	3_Days	Amber Glass 1 li
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste	6020	TestAmerica Seattle	MS/MSD	14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste	7470A	TestAmerica Seattle	MS/MSD	14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste	8082	TestAmerica Seattle		14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste	8260B	TestAmerica Seattle	MS/MSD	14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste	8270C	TestAmerica Seattle	MS/MSD	14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-8	14NCASH1	Solid	7/23/2014 14:30	Waste		TestAmerica Seattle		14NCASH1	EB	Cool	072514-02	3_Days	Soil Jar 4oz Amb
580-44676-2	580-44676-5	Trip Blank 072514-1	Water	7/25/2014 0:00	NA	8260C	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	072514-02	3_Days	Voa Vial 40ml
580-44683-1	580-44683-1	14NCMOCCSS001	Solid	7/26/2014 10:40	11-13'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCC001	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-2	14NCMOCCSS002	Solid	7/26/2014 10:45	11-13'	AK102 & 103	TestAmerica Seattle		14NCC002	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-3	14NCMOCCSS003	Solid	7/26/2014 10:50	8-10'	AK102 & 103	TestAmerica Seattle		14NCC003	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-4	14NCMOCCSS004	Solid	7/26/2014 10:55	8-10'	AK102 & 103	TestAmerica Seattle		14NCC004	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-5	14NCMOCCSS005	Solid	7/26/2014 11:00	8-10'	AK102 & 103	TestAmerica Seattle		14NCC005	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-6	14NCMOCCSS006	Solid	7/26/2014 11:05	8-10'	AK102 & 103	TestAmerica Seattle		14NCC006	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-7	14NCMOCCSS007	Solid	7/26/2014 11:10	8-10'	AK102 & 103	TestAmerica Seattle		14NCC007	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-8	14NCMOCCSS008	Solid	7/26/2014 11:15	8-10'	AK102 & 103	TestAmerica Seattle		14NCC008	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-9	14NCMOCCSS009	Solid	7/26/2014 11:20	11-13'	AK102 & 103	TestAmerica Seattle		14NCC009	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-10	14NCMOCCSS010	Solid	7/26/2014 11:25	11-13'	AK102 & 103	TestAmerica Seattle		14NCC010	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-11	14NCMOCCSS011	Solid	7/26/2014 11:30	15'	AK102 & 103	TestAmerica Seattle		14NCC011	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-12	14NCMOCCSS012	Solid	7/26/2014 11:35	12'	AK102 & 103	TestAmerica Seattle		14NCC012	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-13	14NCMOCCSS013	Solid	7/26/2014 10:40	12'	AK102 & 103	TestAmerica Seattle		14NCC013	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-14	14NCMOCCSS014	Solid	7/26/2014 10:45	11-13'	AK102 & 103	TestAmerica Seattle	Dup of CSS010	14NCC014	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44683-1	580-44683-15	14NCMOCCSS015	Solid	7/26/2014 10:50	11-13'	AK102 & 103	TestAmerica Seattle	Dup of CSS002	14NCC015	LK	Cool	072614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44684-1	580-44684-1	14NCMOCSP01	Solid	7/27/2014 11:00	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCSP01	EB	Cool	072714-1	1_Day_RUS	Soil Jar 4oz Amb
580-44684-1	580-44684-2	14NCMOCSP02	Solid	7/27/2014 11:05	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP02	EB	Cool	072714-1	1_Day_RUS	Soil Jar 4oz Amb
580-44684-1	580-44684-3	14NCMOCSP03	Solid	7/27/2014 11:10	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP03	EB	Cool	072714-1	1_Day_RUS	Soil Jar 4oz Amb
580-44684-1	580-44684-4	14NCMOCSP04	Solid	7/27/2014 11:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP04	EB	Cool	072714-1	1_Day_RUS	Soil Jar 4oz Amb
580-44684-1	580-44684-5	14NCMOCSP05	Solid	7/27/2014 11:20	0-4"	AK102 & 103	TestAmerica Seattle	Dup of MOCSP04	14NCSP05	EB	Cool	072714-1	1_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44685-1	580-44685-1	14NCMOCSP06	Solid	7/28/2014 10:10	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP06	EB	Cool	072814-1	1_Day_RUS	Soil Jar 4oz Amb
580-44685-1	580-44685-2	14NCMOCSP07	Solid	7/28/2014 10:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP07	EB	Cool	072814-1	1_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-1	14NC32SS001	Solid	7/27/2014 15:45	6-12"	AK102 & 103	TestAmerica Seattle	MS/MSD	32SS001	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-2	14NC32SS002	Solid	7/27/2014 15:50	6-12"	AK102 & 103	TestAmerica Seattle		32SS002	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-3	14NC32SS003	Solid	7/27/2014 15:58	6-12"	AK102 & 103	TestAmerica Seattle		32SS003	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-4	14NC32SS004	Solid	7/27/2014 16:16	6-12"	AK102 & 103	TestAmerica Seattle		32SS004	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-5	14NC10SS001	Solid	7/27/2014 14:15	6-12"	AK102 & 103	TestAmerica Seattle		10SS001	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-6	14NC10SS002	Solid	7/27/2014 14:30	6-12"	AK102 & 103	TestAmerica Seattle		10SS002	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-7	14NC10SS003	Solid	7/27/2014 14:35	6-12"	AK102 & 103	TestAmerica Seattle		10SS003	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-8	14NC10SS004	Solid	7/27/2014 14:40	6-12"	AK102 & 103	TestAmerica Seattle	Dup of 10SS03	10SS004	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-9	14NC10SS005	Solid	7/27/2014 14:50	6-12"	AK102 & 103	TestAmerica Seattle		10SS005	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-10	14NC10SS006	Solid	7/27/2014 15:15	6-12"	AK102 & 103	TestAmerica Seattle		10SS006	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44697-1	580-44697-11	14NC10SS007	Solid	7/27/2014 15:35	6-12"	AK102 & 103	TestAmerica Seattle		10SS007	EB	Cool	072914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	6020	TestAmerica Seattle		10SS001	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	6020	TestAmerica Seattle		10SS002	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	6020	TestAmerica Seattle		10SS003	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	6020	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	6020	TestAmerica Seattle	MS/MSD	10SS005	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	6020	TestAmerica Seattle		10SS006	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	7471A	TestAmerica Seattle		10SS001	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	7471A	TestAmerica Seattle		10SS002	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	7471A	TestAmerica Seattle		10SS003	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	7471A	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	7471A	TestAmerica Seattle	MS/MSD	10SS005	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	7471A	TestAmerica Seattle		10SS006	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	8015C	TestAmerica Seattle		10SS001	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	8015C	TestAmerica Seattle		10SS002	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	8015C	TestAmerica Seattle		10SS003	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	8015C	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	8015C	TestAmerica Seattle	MS/MSD	10SS005	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	8015C	TestAmerica Seattle		10SS006	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	8082	TestAmerica Seattle		10SS001	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	8082	TestAmerica Seattle		10SS002	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	8082	TestAmerica Seattle		10SS003	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	8082	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	8082	TestAmerica Seattle	MS/MSD	10SS005	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	8082	TestAmerica Seattle		10SS006	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	8260B	TestAmerica Seattle		10SS001	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	8260B	TestAmerica Seattle		10SS002	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	8260B	TestAmerica Seattle		10SS003	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	8260B	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	8260B	TestAmerica Seattle	MS/MSD	10SS005	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	8260B	TestAmerica Seattle		10SS006	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-7	TB AV00281	Solid	7/27/2014 0:01	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank		Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	AK101	1		10SS001	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	AK101	1		10SS002	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	AK101	1		10SS003	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	AK101	1	Dup of 10SS003	10SS004	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	AK101	1	MS/MSD	10SS005	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	AK101	1		10SS006	EB	Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-7	TB AV00281	Solid	7/27/2014 0:01	NA	AK101	1	Trip Blank	Trip Blank		Methanol	72414-01	2_Day_RUS	Soil jar 4oz
580-44702-1	580-44702-1	14NC10SS001	Solid	7/27/2014 14:15	6-12"	8270C SIM/DoD	TestAmerica Seattle		10SS001	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-2	14NC10SS002	Solid	7/27/2014 14:30	6-12"	8270C SIM/DoD	TestAmerica Seattle		10SS002	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-3	14NC10SS003	Solid	7/27/2014 14:35	6-12"	8270C SIM/DoD	TestAmerica Seattle		10SS003	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-4	14NC10SS004	Solid	7/27/2014 14:40	6-12"	8270C SIM/DoD	TestAmerica Seattle	Dup of 10SS003	10SS004	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-5	14NC10SS005	Solid	7/27/2014 14:50	6-12"	8270C SIM/DoD	TestAmerica Seattle	MS/MSD	10SS005	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44702-1	580-44702-6	14NC10SS006	Solid	7/27/2014 15:15	6-12"	8270C SIM/DoD	TestAmerica Seattle		10SS006	EB	Cool	72414-01	2_Day_RUS	Soil jar 8oz
580-44718-1	580-44718-1	14NCMOCESS001	Solid	7/29/2014 13:00	9-11'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCE001	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44718-1	580-44718-2	14NCMOCESS002	Solid	7/29/2014 13:05	9-11'	AK102 & 103	TestAmerica Seattle		14NCE002	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-3	14NCMOCESS003	Solid	7/29/2014 13:10	9-11'	AK102 & 103	TestAmerica Seattle		14NCE003	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-4	14NCMOCESS004	Solid	7/29/2014 13:15	9-11'	AK102 & 103	TestAmerica Seattle		14NCE004	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-5	14NCMOCESS005	Solid	7/29/2014 13:20	9-11'	AK102 & 103	TestAmerica Seattle		14NCE005	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-6	14NCMOCESS006	Solid	7/29/2014 13:25	13-15'	AK102 & 103	TestAmerica Seattle		14NCE006	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-7	14NCMOCESS007	Solid	7/29/2014 13:30	13-15'	AK102 & 103	TestAmerica Seattle		14NCE007	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-8	14NCMOCESS008	Solid	7/29/2014 13:35	13-15'	AK102 & 103	TestAmerica Seattle		14NCE008	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-9	14NCMOCESS009	Solid	7/29/2014 13:40	15-16'	AK102 & 103	TestAmerica Seattle		14NCE009	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-10	14NCMOCESS010	Solid	7/29/2014 13:45	11-13'	AK102 & 103	TestAmerica Seattle		14NCE010	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-11	14NCMOCESS011	Solid	7/29/2014 13:50	11-13'	AK102 & 103	TestAmerica Seattle		14NCE011	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44718-1	580-44718-12	14NCMOCESS012	Solid	7/29/2014 13:55	9-11'	AK102 & 103	TestAmerica Seattle	FD of MOCESS003	14NCE012	LK	Cool	072914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-1	14NCMOCESS013	Solid	7/30/2014 15:20	10-13'	AK102 & 103	TestAmerica Seattle		14NCE013	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-2	14NCMOCESS014	Solid	7/30/2014 15:25	10-13'	AK102 & 103	TestAmerica Seattle		14NCE014	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-3	14NCMOCESS015	Solid	7/30/2014 15:30	10-13'	AK102 & 103	TestAmerica Seattle		14NCE015	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-4	14NCMOCESS016	Solid	7/30/2014 15:35	10-13'	AK102 & 103	TestAmerica Seattle		14NCE016	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-5	14NCMOCESS017	Solid	7/30/2014 15:40	10-13'	AK102 & 103	TestAmerica Seattle		14NCE017	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44735-1	580-44735-6	14NCMOCESS018	Solid	7/30/2014 15:45	10-13'	AK102 & 103	TestAmerica Seattle	FD of MOCESS014	14NCE018	LK	Cool	073014-1	1_Day_RUS	Soil Jar 4oz Amb
580-44747-1	580-44747-1	14NCMOCCSS016	Solid	7/30/2014 9:30	9-13'	AK102 & 103	TestAmerica Seattle		14NCc016	LK	Cool	073114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44747-1	580-44747-2	14NCMOCCSS017	Solid	7/30/2014 9:35	9-13'	AK102 & 103	TestAmerica Seattle		14NCC017	LK	Cool	073114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44747-1	580-44747-3	14NCMOCISS001	Solid	7/30/2014 13:30	6'	AK102 & 103	TestAmerica Seattle		14NC1001	LK	Cool	073114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44747-1	580-44747-4	14NCMOCISS002	Solid	7/30/2014 13:35	6'	AK102 & 103	TestAmerica Seattle	FD of MOCISS002	14NC1002	LK	Cool	073114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44747-1	580-44747-5	14NCMOCISS003	Solid	7/30/2014 13:40	6'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NC1003	LK	Cool	073114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-1	MOCBW442	Solid	7/25/2014 9:00	Waste	AK102 & 103	TestAmerica Seattle	MS/MSD	MOC442	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-2	MOCBW443	Solid	7/25/2014 10:00	Waste	AK102 & 103	TestAmerica Seattle		MOC443	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-3	MOCBW444	Solid	7/25/2014 10:40	Waste	AK102 & 103	TestAmerica Seattle		MOC444	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-4	MOCBW445	Solid	7/25/2014 11:50	Waste	AK102 & 103	TestAmerica Seattle		MOC445	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-5	MOCBW446	Solid	7/25/2014 13:50	Waste	AK102 & 103	TestAmerica Seattle		MOC446	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-6	MOCBW447	Solid	7/25/2014 15:25	Waste	AK102 & 103	TestAmerica Seattle		MOC447	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-7	MOCBW448	Solid	7/25/2014 16:27	Waste	AK102 & 103	TestAmerica Seattle		MOC448	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-8	MOCBW449	Solid	7/26/2014 8:00	Waste	AK102 & 103	TestAmerica Seattle		MOC449	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-9	MOCBW450	Solid	7/26/2014 9:40	Waste	AK102 & 103	TestAmerica Seattle		MOC450	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-10	MOCBW451	Solid	7/27/2014 7:50	Waste	AK102 & 103	TestAmerica Seattle		MOC451	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-11	MOCBW452	Solid	7/27/2014 9:45	Waste	AK102 & 103	TestAmerica Seattle		MOC452	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-12	MOCBW453	Solid	7/27/2014 10:57	Waste	AK102 & 103	TestAmerica Seattle		MOC453	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-13	MOCBW454	Solid	7/27/2014 13:05	Waste	AK102 & 103	TestAmerica Seattle		MOC454	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-14	MOCBW455	Solid	7/27/2014 14:00	Waste	AK102 & 103	TestAmerica Seattle		MOC455	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-15	MOCBW456	Solid	7/27/2014 15:10	Waste	AK102 & 103	TestAmerica Seattle		MOC456	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-16	MOCBW457	Solid	7/27/2014 16:40	Waste	AK102 & 103	TestAmerica Seattle		MOC457	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-17	MOCBW458	Solid	7/28/2014 8:30	Waste	AK102 & 103	TestAmerica Seattle		MOC458	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-18	MOCBW459	Solid	7/28/2014 10:00	Waste	AK102 & 103	TestAmerica Seattle		MOC459	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-19	MOCBW460	Solid	7/28/2014 13:06	Waste	AK102 & 103	TestAmerica Seattle		MOC460	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-20	MOCBW461	Solid	7/28/2014 14:30	Waste	AK102 & 103	TestAmerica Seattle		MOC461	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-21	MOCBW462	Solid	7/28/2014 16:00	Waste	AK102 & 103	TestAmerica Seattle	MS/MSD	MOC462	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-22	MOCBW463	Solid	7/29/2014 8:00	Waste	AK102 & 103	TestAmerica Seattle		MOC463	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-23	MOCBW464	Solid	7/29/2014 9:40	Waste	AK102 & 103	TestAmerica Seattle		MOC464	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-24	MOCBW465	Solid	7/29/2014 11:10	Waste	AK102 & 103	TestAmerica Seattle		MOC465	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-25	MOCBW466	Solid	7/29/2014 13:25	Waste	AK102 & 103	TestAmerica Seattle		MOC466	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-26	MOCBW467	Solid	7/29/2014 15:00	Waste	AK102 & 103	TestAmerica Seattle		MOC467	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-27	MOCBW468	Solid	7/29/2014 16:15	Waste	AK102 & 103	TestAmerica Seattle		MOC468	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-28	MOCBW469	Solid	7/29/2014 17:08	Waste	AK102 & 103	TestAmerica Seattle		MOC469	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-29	MOCBW470	Solid	7/30/2014 8:42	Waste	AK102 & 103	TestAmerica Seattle		MOC470	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-30	MOCBW471	Solid	7/30/2014 10:10	Waste	AK102 & 103	TestAmerica Seattle		MOC471	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-31	MOCBW472	Solid	7/30/2014 11:17	Waste	AK102 & 103	TestAmerica Seattle		MOC472	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-32	MOCBW473	Solid	7/30/2014 14:04	Waste	AK102 & 103	TestAmerica Seattle		MOC473	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-33	MOCBW474	Solid	7/30/2014 15:50	Waste	AK102 & 103	TestAmerica Seattle		MOC474	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-34	MOCBW475	Solid	7/31/2014 9:00	Waste	AK102 & 103	TestAmerica Seattle		MOC475	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-35	MOCBW476	Solid	7/31/2014 10:10	Waste	AK102 & 103	TestAmerica Seattle		MOC476	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-36	MOCBW477	Solid	7/31/2014 11:40	Waste	AK102 & 103	TestAmerica Seattle		MOC477	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44758-1	580-44758-37	MOCBW478	Solid	7/27/2014 14:00	Waste	AK102 & 103	TestAmerica Seattle		MOC478	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-38	MOCBW479	Solid	7/27/2014 15:22	Waste	AK102 & 103	TestAmerica Seattle		MOC479	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-39	MOCBW563	Solid	7/29/2014 8:05	Waste	AK102 & 103	TestAmerica Seattle	FD of MOCBW463	MOC563	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-40	MOCBW564	Solid	7/29/2014 9:50	Waste	AK102 & 103	TestAmerica Seattle	FD of MOCBW464	MOC564	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44758-1	580-44758-41	MOCBW565	Solid	7/30/2014 8:30	Waste	AK102 & 103	TestAmerica Seattle	FD of MOCBW470	MOC565	EB	Cool	080114-1	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-1	14NCMOCESS019	Solid	8/1/2014 11:30	10-12'	AK102 & 103	TestAmerica Seattle		14NCE019	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-2	14NCMOCESS020	Solid	8/1/2014 11:35	12'	AK102 & 103	TestAmerica Seattle		14NCE020	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-3	14NCMOCESS021	Solid	8/1/2014 11:40	10-12'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCE021	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-4	14NCMOCESS022	Solid	8/1/2014 11:45	10-12'	AK102 & 103	TestAmerica Seattle		14NCE022	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-5	14NCMOCESS023	Solid	8/1/2014 11:50	12'	AK102 & 103	TestAmerica Seattle		14NCE023	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-6	14NCMOCESS024	Solid	8/1/2014 11:55	10-12'	AK102 & 103	TestAmerica Seattle	FD of MOCISS022	14NCE024	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44766-1	580-44766-7	14NCMOCISS004	Solid	8/1/2014 13:30	13'	AK102 & 103	TestAmerica Seattle		14NCI004	LK	Cool	080114-2	3_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-1	14NCMOCSP08	Solid	8/1/2014 15:30	12"	AK102 & 103	TestAmerica Seattle		14NCSP08	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-2	14NCMOCSP09	Solid	8/1/2014 15:35	12"	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCSP09	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-3	14NCMOCSP10	Solid	8/1/2014 15:40	12"	AK102 & 103	TestAmerica Seattle		14NCSP10	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-4	14NCMOCSP11	Solid	8/1/2014 15:45	12"	AK102 & 103	TestAmerica Seattle		14NCSP11	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-5	14NCMOCSP12	Solid	8/1/2014 15:50	12"	AK102 & 103	TestAmerica Seattle		14NCSP12	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-6	14NCMOCSP13	Solid	8/1/2014 15:55	12"	AK102 & 103	TestAmerica Seattle		14NCSP13	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-7	14NCMOCSP14	Solid	8/1/2014 16:00	12"	AK102 & 103	TestAmerica Seattle		14NCSP14	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-8	14NCMOCSP15	Solid	8/1/2014 16:05	12"	AK102 & 103	TestAmerica Seattle		14NCSP15	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-9	14NCMOCSP16	Solid	8/1/2014 16:10	12"	AK102 & 103	TestAmerica Seattle		14NCSP16	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44772-1	580-44772-10	14NCMOCSP17	Solid	8/1/2014 16:15	12"	AK102 & 103	TestAmerica Seattle		14NCSP17	EB	Cool	080114-3	1_Day_RUS	Soil Jar 4oz Amb
580-44778-1	580-44778-1	14NCMOCESS025	Solid	8/4/2014 9:35	10-12'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCB025	LK	Cool	080414-1	1_Day_RUS	Soil Jar 4oz Amb
580-44778-1	580-44778-2	14NCMOCESS026	Solid	8/4/2014 9:40	10-12'	AK102 & 103	TestAmerica Seattle		14NCB026	LK	Cool	080414-1	1_Day_RUS	Soil Jar 4oz Amb
580-44778-1	580-44778-3	14NCMOCESS027	Solid	8/4/2014 9:45	15'	AK102 & 103	TestAmerica Seattle		14NCB027	LK	Cool	080414-1	1_Day_RUS	Soil Jar 4oz Amb
580-44778-1	580-44778-4	14NCMOCESS028	Solid	8/4/2014 9:50	15'	AK102 & 103	TestAmerica Seattle		14NCB028	LK	Cool	080414-1	1_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	AK102 & 103	TestAmerica Seattle		10SS008	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	AK102 & 103	TestAmerica Seattle	FD of 10SS008	10SS009	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	AK102 & 103	TestAmerica Seattle		10SS010	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	AK102 & 103	TestAmerica Seattle		10SS011	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	AK102 & 103	TestAmerica Seattle		10SS012	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	AK102 & 103	TestAmerica Seattle		10SS013	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	AK102 & 103	TestAmerica Seattle		10SS014	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	AK102 & 103	TestAmerica Seattle	FD of 10SS014	10SS015	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	AK102 & 103	TestAmerica Seattle		10SS016	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	AK102 & 103	TestAmerica Seattle		10SS017	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	AK102 & 103	TestAmerica Seattle		10SS018	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	AK102 & 103	TestAmerica Seattle		10SS019	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	AK102 & 103	TestAmerica Seattle		10SS020	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	AK102 & 103	TestAmerica Seattle	MS/MSD,	10SS021	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	AK102 & 103	TestAmerica Seattle		10SS022	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44799-1	580-44799-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	AK102 & 103	TestAmerica Seattle		10SS023	EB	Cool	080514-1	2_Day_RUS	Soil Jar 4oz Amb
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	6020	TestAmerica Seattle		10SS008	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	6020	TestAmerica Seattle	FD of 10SS008	10SS009	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	6020	TestAmerica Seattle		10SS010	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	6020	TestAmerica Seattle		10SS011	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	6020	TestAmerica Seattle		10SS012	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	6020	TestAmerica Seattle		10SS013	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	6020	TestAmerica Seattle		10SS014	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	6020	TestAmerica Seattle	FD of 10SS014	10SS015	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	6020	TestAmerica Seattle		10SS016	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	6020	TestAmerica Seattle		10SS017	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	6020	TestAmerica Seattle		10SS018	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	6020	TestAmerica Seattle		10SS019	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	6020	TestAmerica Seattle		10SS020	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	6020	TestAmerica Seattle		10SS021	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	6020	TestAmerica Seattle		10SS022	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	6020	TestAmerica Seattle		10SS023	EB	Cool	080414-4	10_Days	Soil jar 8oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	8082	TestAmerica West Sac		10SS008	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	8082	TestAmerica West Sac	FD of 10SS008	10SS009	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	8082	TestAmerica West Sac		10SS010	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	8082	TestAmerica West Sac		10SS011	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	8082	TestAmerica West Sac		10SS012	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	8082	TestAmerica West Sac		10SS013	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	8082	TestAmerica West Sac		10SS014	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	8082	TestAmerica West Sac	FD of 10SS014	10SS015	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	8082	TestAmerica West Sac		10SS016	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	8082	TestAmerica West Sac		10SS017	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	8082	TestAmerica West Sac		10SS018	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	8082	TestAmerica West Sac		10SS019	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	8082	TestAmerica West Sac		10SS020	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	8082	TestAmerica West Sac		10SS021	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	8082	TestAmerica West Sac		10SS022	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	8082	TestAmerica West Sac		10SS023	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	8270C SIM	TestAmerica Seattle		10SS008	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	8270C SIM	TestAmerica Seattle	FD of 10SS008	10SS009	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	8270C SIM	TestAmerica Seattle		10SS010	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	8270C SIM	TestAmerica Seattle		10SS011	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	8270C SIM	TestAmerica Seattle		10SS012	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	8270C SIM	TestAmerica Seattle		10SS013	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	8270C SIM	TestAmerica Seattle		10SS014	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	8270C SIM	TestAmerica Seattle	FD of 10SS014	10SS015	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	8270C SIM	TestAmerica Seattle		10SS016	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	8270C SIM	TestAmerica Seattle		10SS017	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	8270C SIM	TestAmerica Seattle		10SS018	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	8270C SIM	TestAmerica Seattle		10SS019	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	8270C SIM	TestAmerica Seattle		10SS020	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	8270C SIM	TestAmerica Seattle		10SS021	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	8270C SIM	TestAmerica Seattle		10SS022	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	8270C SIM	TestAmerica Seattle		10SS023	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	8260B	TestAmerica Seattle		10SS008	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	8260B	TestAmerica Seattle	FD of 10SS008	10SS009	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	8260B	TestAmerica Seattle		10SS010	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	8260B	TestAmerica Seattle		10SS011	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	8260B	TestAmerica Seattle		10SS012	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	8260B	TestAmerica Seattle		10SS013	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	8260B	TestAmerica Seattle		10SS014	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	8260B	TestAmerica Seattle	FD of 10SS014	10SS015	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	8260B	TestAmerica Seattle		10SS016	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	8260B	TestAmerica Seattle		10SS017	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	8260B	TestAmerica Seattle		10SS018	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	8260B	TestAmerica Seattle		10SS019	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	8260B	TestAmerica Seattle		10SS020	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	8260B	TestAmerica Seattle		10SS021	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	8260B	TestAmerica Seattle		10SS022	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	8260B	TestAmerica Seattle		10SS023	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-17	TB080414	Solid	8/4/2014 0:01	NA	8260B	TestAmerica Seattle	Trip Blank	TB080414	EB	Methanol	080414-5	10_Days	Soil jar 4oz
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	AK101	TestAmerica Seattle		10SS008	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	AK101	TestAmerica Seattle	FD of 10SS008	10SS009	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	AK101	TestAmerica Seattle		10SS010	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	AK101	TestAmerica Seattle		10SS011	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	AK101	TestAmerica Seattle		10SS012	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	AK101	TestAmerica Seattle		10SS013	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	AK101	TestAmerica Seattle		10SS014	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	AK101	TestAmerica Seattle	FD of 10SS014	10SS015	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	AK101	TestAmerica Seattle		10SS016	EB	Methanol	080414-4	10_Days	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	AK101	TestAmerica Seattle		10SS017	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	AK101	TestAmerica Seattle		10SS018	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	AK101	TestAmerica Seattle		10SS019	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	AK101	TestAmerica Seattle		10SS020	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	AK101	TestAmerica Seattle		10SS021	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	AK101	TestAmerica Seattle		10SS022	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	AK101	TestAmerica Seattle		10SS023	EB	Methanol	080414-4	10_Days	Soil jar 4oz
580-44802-1	580-44802-17	TB080414	Solid	8/4/2014 0:01	NA	8015C	TestAmerica Denver	Trip Blank	TB080414	EB	Methanol	080414-5	10_Days	Soil jar 4oz
580-44802-1	580-44802-1	14NC10SS008	Solid	8/4/2014 11:05	2-3'	8015C	TestAmerica Denver		10SS008	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-2	14NC10SS009	Solid	8/4/2014 11:10	2-3'	8015C	TestAmerica Denver	FD of 10SS008	10SS009	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-3	14NC10SS010	Solid	8/4/2014 11:22	2-3'	8015C	TestAmerica Denver		10SS010	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-4	14NC10SS011	Solid	8/4/2014 11:27	2-3'	8015C	TestAmerica Denver		10SS011	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-5	14NC10SS012	Solid	8/4/2014 11:31	2-3'	8015C	TestAmerica Denver		10SS012	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-6	14NC10SS013	Solid	8/4/2014 11:35	2-3'	8015C	TestAmerica Denver		10SS013	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-7	14NC10SS014	Solid	8/4/2014 11:35	2-3'	8015C	TestAmerica Denver		10SS014	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-8	14NC10SS015	Solid	8/4/2014 11:45	2-3'	8015C	TestAmerica Denver	FD of 10SS014	10SS015	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-9	14NC10SS016	Solid	8/4/2014 12:58	2-3'	8015C	TestAmerica Denver		10SS016	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-10	14NC10SS017	Solid	8/4/2014 13:02	2-3'	8015C	TestAmerica Denver		10SS017	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-11	14NC10SS018	Solid	8/4/2014 13:08	2-3'	8015C	TestAmerica Denver		10SS018	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-12	14NC10SS019	Solid	8/4/2014 13:15	2-3'	8015C	TestAmerica Denver		10SS019	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-13	14NC10SS020	Solid	8/4/2014 13:21	2-3'	8015C	TestAmerica Denver		10SS020	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-14	14NC10SS021	Solid	8/4/2014 13:40	2-3'	8015C	TestAmerica Denver		10SS021	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-15	14NC10SS022	Solid	8/4/2014 14:02	2-3'	8015C	TestAmerica Denver		10SS022	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44802-1	580-44802-16	14NC10SS023	Solid	8/4/2014 13:55	2-3'	8015C	TestAmerica Denver		10SS023	EB	Cool	080414-4	10_Days	Soil jar 8oz
580-44806-1	580-44806-1	14NCMOCSW05	Water	8/3/2014 10:15	surface	8260B	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-2	14NCMOCSW06	Water	8/3/2014 11:00	surface	8260B	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-3	14NCMOCSW07	Water	8/3/2014 11:40	surface	8260B	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-4	14NCMOCSW08	Water	8/3/2014 10:30	surface	8260B	TestAmerica Seattle	FD of MOCSW05	MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-5	Trip Blank - 080414-1	Water	8/3/2014 0:01	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-1	14NCMOCSW05	Water	8/3/2014 10:15	surface	AK101	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-2	14NCMOCSW06	Water	8/3/2014 11:00	surface	AK101	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-3	14NCMOCSW07	Water	8/3/2014 11:40	surface	AK101	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-4	14NCMOCSW08	Water	8/3/2014 10:30	surface	AK101	TestAmerica Seattle	FD of MOCSW05	MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-5	Trip Blank - 080414-1	Water	8/3/2014 0:01	NA	AK102 & 103	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	080414-3	15_Days	Voa Vial 40ml
580-44806-1	580-44806-1	14NCMOCSW05	Water	8/3/2014 10:15	surface	AK102 & 103	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-2	14NCMOCSW06	Water	8/3/2014 11:00	surface	AK102 & 103	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-3	14NCMOCSW07	Water	8/3/2014 11:40	surface	AK102 & 103	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-4	14NCMOCSW08	Water	8/3/2014 10:30	surface	AK102 & 103	TestAmerica Seattle	FD of MOCSW05	MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-1	14NCMOCSW05	Water	8/3/2014 10:15	surface	8270C SIM	TestAmerica Seattle		MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-2	14NCMOCSW06	Water	8/3/2014 11:00	surface	8270C SIM	TestAmerica Seattle		MOCSW02	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-3	14NCMOCSW07	Water	8/3/2014 11:40	surface	8270C SIM	TestAmerica Seattle		MOCSW03	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44806-1	580-44806-4	14NCMOCSW08	Water	8/3/2014 10:30	surface	8270C SIM	TestAmerica Seattle	FD of MOCSW05	MOCSW01	EB	Hydrochloric Acid	080414-3	15_Days	Amber Glass 1 li
580-44811-1	580-44811-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	AK102 & 103	TestAmerica Seattle		14MW07	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25	AK102 & 103	TestAmerica Seattle		14MW07	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	AK102 & 103	TestAmerica Seattle		14MW02	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	AK102 & 103	TestAmerica Seattle		14MW02	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	AK102 & 103	TestAmerica Seattle		14MW03	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	AK102 & 103	TestAmerica Seattle	FD of WELLSS05	14MW03	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	AK102 & 103	TestAmerica Seattle		14MW03	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	AK102 & 103	TestAmerica Seattle		14MW01	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	AK102 & 103	TestAmerica Seattle		14MW01	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	AK102 & 103	TestAmerica Seattle		14MW03	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44811-1	580-44811-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	AK102 & 103	TestAmerica Seattle		14MW04	Lk	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-1	MOCBW494	Solid	8/3/2014 9:15	Waste	AK102 & 103	TestAmerica Seattle		BW494	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-2	MOCBW495	Solid	8/3/2014 10:10	Waste	AK102 & 103	TestAmerica Seattle		BW495	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-3	MOCBW496	Solid	8/3/2014 13:16	Waste	AK102 & 103	TestAmerica Seattle		BW496	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-4	MOCBW497	Solid	8/3/2014 15:10	Waste	AK102 & 103	TestAmerica Seattle		BW497	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-5	MOCBW498	Solid	8/3/2014 17:00	Waste	AK102 & 103	TestAmerica Seattle		BW498	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44813-1	580-44813-6	MOCBW499	Solid	8/4/2014 14:00	Waste	AK102 & 103	TestAmerica Seattle		BW499	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44813-1	580-44813-7	MOCBW500	Solid	8/4/2014 15:50	Waste	AK102 & 103	TestAmerica Seattle		BW500	EB	Cool	080614-1	1_Day_RUS	Soil Jar 4oz Amb
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	8260B	TestAmerica Seattle	MS/MSD	14MW07	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25	8260B	TestAmerica Seattle		14MW07	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	8260B	TestAmerica Seattle		14MW02	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	8260B	TestAmerica Seattle		14MW02	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	8260B	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	8260B	TestAmerica Seattle	FD of WELLSS05	14MW03	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	8260B	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	8260B	TestAmerica Seattle		14MW01	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	8260B	TestAmerica Seattle		14MW01	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	8260B	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	8260B	TestAmerica Seattle		14MW04	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	8260B	TestAmerica Seattle		14MW05	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	8260B	TestAmerica Seattle		14MW05	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	8260B	TestAmerica Seattle	FD of WELLSS13	14MW05	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	8260B	TestAmerica Seattle		14MW06	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	8260B	TestAmerica Seattle		14MW06	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-17	TB14NC080614	Solid	8/6/2014 0:00	NA	8260B	TestAmerica Seattle	Trip Blank	TB14NC080	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	AK101	TestAmerica Seattle	MS/MSD	14MW07	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25'	AK101	TestAmerica Seattle		14MW07	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	AK101	TestAmerica Seattle		14MW02	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	AK101	TestAmerica Seattle		14MW02	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	AK101	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	AK101	TestAmerica Seattle	FD of WELLSS05	14MW03	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	AK101	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	AK101	TestAmerica Seattle		14MW01	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	AK101	TestAmerica Seattle		14MW01	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	AK101	TestAmerica Seattle		14MW03	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	AK101	TestAmerica Seattle		14MW04	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	AK101	TestAmerica Seattle		14MW05	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	AK101	TestAmerica Seattle		14MW05	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	AK101	TestAmerica Seattle	FD of WELLSS13	14MW05	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	AK101	TestAmerica Seattle		14MW06	LK	Methanol	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	AK101	TestAmerica Seattle		14MW06	LK	Methanol	080614-2	10_Days	Soil jar 4oz
580-44828-1	580-44828-17	TB14NC080614	Solid	8/6/2014 0:00	NA	7471A	TestAmerica Seattle	Trip Blank	TB14NC080	LK	Cool	080614-1	10_Days	Soil jar 4oz
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	7471A	TestAmerica Seattle	MS/MSD	14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25'	7471A	TestAmerica Seattle		14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	7471A	TestAmerica Seattle		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	7471A	TestAmerica Seattle		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	7471A	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	7471A	TestAmerica Seattle	FD of WELLSS05	14MW03	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	7471A	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	7471A	TestAmerica Seattle		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	7471A	TestAmerica Seattle		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	7471A	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	7471A	TestAmerica Seattle		14MW04	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	7471A	TestAmerica Seattle		14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	7471A	TestAmerica Seattle		14MW05	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	7471A	TestAmerica Seattle	FD of WELLSS13	14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	7471A	TestAmerica Seattle		14MW06	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	7471A	TestAmerica Seattle		14MW06	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	6020	TestAmerica Seattle	MS/MSD	14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25'	6020	TestAmerica Seattle		14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	6020	TestAmerica Seattle		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	6020	TestAmerica Seattle		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	6020	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	6020	TestAmerica Seattle	FD of WELLSS05	14MW03	LK	Cool	080614-1	10_Days	Soil jar 8oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	6020	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	6020	TestAmerica Seattle		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	6020	TestAmerica Seattle		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	6020	TestAmerica Seattle		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	6020	TestAmerica Seattle		14MW04	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	6020	TestAmerica Seattle		14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	6020	TestAmerica Seattle		14MW05	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	6020	TestAmerica Seattle	FD of WELLSS13	14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	6020	TestAmerica Seattle		14MW06	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	6020	TestAmerica Seattle		14MW06	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	8082	TestAmerica West Sac	MS/MSD	14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25'	8082	TestAmerica West Sac		14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	8082	TestAmerica West Sac		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	8082	TestAmerica West Sac		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	8082	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	8082	TestAmerica West Sac	FD of WELLSS05	14MW03	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	8082	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	8082	TestAmerica West Sac		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	8082	TestAmerica West Sac		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	8082	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	8082	TestAmerica West Sac		14MW04	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	8082	TestAmerica West Sac		14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	8082	TestAmerica West Sac		14MW05	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	8082	TestAmerica West Sac	FD of WELLSS13	14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	8082	TestAmerica West Sac		14MW06	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	8082	TestAmerica West Sac		14MW06	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-1	14NCWELLSS01	Solid	8/5/2014 10:00	16.5-20'	8270C SIM	TestAmerica West Sac	MS/MSD	14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-2	14NCWELLSS02	Solid	8/5/2014 10:15	21.5-25'	8270C SIM	TestAmerica West Sac		14MW07	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-3	14NCWELLSS03	Solid	8/5/2014 11:00	10-12'	8270C SIM	TestAmerica West Sac		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-4	14NCWELLSS04	Solid	8/5/2014 11:15	18-20'	8270C SIM	TestAmerica West Sac		14MW02	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-5	14NCWELLSS05	Solid	8/5/2014 13:00	16-17'	8270C SIM	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-6	14NCWELLSS06	Solid	8/5/2014 14:00	17-18'	8270C SIM	TestAmerica West Sac	FD of WELLSS05	14MW03	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-7	14NCWELLSS07	Solid	8/5/2014 14:20	23.5-25'	8270C SIM	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-8	14NCWELLSS08	Solid	8/5/2014 15:40	15.5-16.5'	8270C SIM	TestAmerica West Sac		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-9	14NCWELLSS09	Solid	8/5/2014 16:00	23-24'	8270C SIM	TestAmerica West Sac		14MW01	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-10	14NCWELLSS10	Solid	8/5/2014 17:00	7.5-10'	8270C SIM	TestAmerica West Sac		14MW03	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-11	14NCWELLSS11	Solid	8/5/2014 17:10	13.5-15'	8270C SIM	TestAmerica West Sac		14MW04	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-12	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	8270C SIM	TestAmerica West Sac		14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-13	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	8270C SIM	TestAmerica West Sac		14MW05	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-14	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	8270C SIM	TestAmerica West Sac	FD of WELLSS13	14MW05	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44828-1	580-44828-15	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	8270C SIM	TestAmerica West Sac		14MW06	LK	Cool	080614-1	10_Days	Soil jar 8oz
580-44828-1	580-44828-16	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	8270C SIM	TestAmerica West Sac		14MW06	LK	Cool	080614-2	10_Days	Soil jar 8oz
580-44829-1	580-44829-1	14NCWELLSS12	Solid	8/6/2014 9:20	2.5-4'	AK102 & 103	TestAmerica Seattle		14MW5	LK	Cool	080614-3	1_Day_RUS	Soil Jar 4oz Amb
580-44829-1	580-44829-2	14NCWELLSS13	Solid	8/6/2014 9:30	12.5-14.5'	AK102 & 103	TestAmerica Seattle		14MW5	LK	Cool	080614-3	1_Day_RUS	Soil Jar 4oz Amb
580-44829-1	580-44829-3	14NCWELLSS14	Solid	8/6/2014 9:40	12.5-14.5'	AK102 & 103	TestAmerica Seattle		14MW5	LK	Cool	080614-3	1_Day_RUS	Soil Jar 4oz Amb
580-44829-1	580-44829-4	14NCWELLSS15	Solid	8/6/2014 10:35	7.5-9.5'	AK102 & 103	TestAmerica Seattle		14MW6	LK	Cool	080614-3	1_Day_RUS	Soil Jar 4oz Amb
580-44829-1	580-44829-5	14NCWELLSS16	Solid	8/6/2014 10:40	12-14'	AK102 & 103	TestAmerica Seattle		14MW6	LK	Cool	080614-3	1_Day_RUS	Soil Jar 4oz Amb
580-44831-1	580-44831-1	14NCDRUM001	Solid	8/6/2014 10:42	Waste	6020	TestAmerica Seattle	MS/MSD	14NCDRUM(	EB	Cool	1 OF 1	8_Days	Soil jar 8oz
580-44831-1	580-44831-1	14NCDRUM001	Solid	8/6/2014 10:42	Waste	7470A	TestAmerica Seattle	MS/MSD	14NCDRUM(	EB	Cool	1 OF 1	8_Days	Soil jar 8oz
580-44831-1	580-44831-1	14NCDRUM001	Solid	8/6/2014 10:42	Waste	8082	TestAmerica Sacrament	MS/MSD	14NCDRUM(	EB	Cool	1 OF 1	8_Days	Soil jar 8oz
580-44831-1	580-44831-1	14NCDRUM001	Solid	8/6/2014 10:42	Waste	8270C	TestAmerica Seattle	MS/MSD	14NCDRUM(	EB	Cool	1 OF 1	8_Days	Soil jar 8oz
580-44831-1	580-44831-1	14NCDRUM001	Solid	8/6/2014 10:42	Waste	8260B	TestAmerica Seattle	MS/MSD	14NCDRUM(	EB	Cool	1 OF 1	8_Days	Soil jar 8oz
580-44835-1	580-44835-1	14NC32SS001	Solid	8/6/2014 10:24	2-foot	AK102 & 103	TestAmerica Seattle		32SS001	EB	Cool	080614-06	2_Day_RUS	Soil Jar 4oz Amb
580-44835-1	580-44835-2	14NC32SS002	Solid	8/6/2014 10:25	2-foot	AK102 & 103	TestAmerica Seattle		32SS002	EB	Cool	080614-06	2_Day_RUS	Soil Jar 4oz Amb
580-44835-1	580-44835-3	14NC32SS003	Solid	8/6/2014 10:30	2-foot	AK102 & 103	TestAmerica Seattle		32SS003	EB	Cool	080614-06	2_Day_RUS	Soil Jar 4oz Amb
580-44835-1	580-44835-4	14NC32SS004	Solid	8/6/2014 10:31	4-foot	AK102 & 103	TestAmerica Seattle	MS/MSD	32SS004	EB	Cool	080614-06	2_Day_RUS	Soil Jar 4oz Amb
580-44835-1	580-44835-5	14NC32SS005	Solid	8/6/2014 10:33	4-foot	AK102 & 103	TestAmerica Seattle		32SS005	EB	Cool	080614-06	2_Day_RUS	Soil Jar 4oz Amb
580-44839-1	580-44839-1	14NC21SS041-1	Solid	8/5/2014 9:05	1-foot	6020	TestAmerica Seattle		21SS041-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44839-1	580-44839-2	14NC21SS041-2	Solid	8/5/2014 9:19	2-foot	6020	TestAmerica Seattle		21SS041-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-3	14NC21SS041-3	Solid	8/5/2014 9:20	3-foot	6020	TestAmerica Seattle		21SS041-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-4	14NC21SS042-1	Solid	8/5/2014 9:35	1-foot	6020	TestAmerica Seattle		21SS042-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-5	14NC21SS042-2	Solid	8/5/2014 9:45	2-foot	6020	TestAmerica Seattle		21SS042-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-6	14NC21SS042-3	Solid	8/5/2014 9:47	3-foot	6020	TestAmerica Seattle		21SS042-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-7	14NC21SS043-1	Solid	8/5/2014 9:56	1-foot	6020	TestAmerica Seattle		21SS043-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-8	14NC21SS043-2	Solid	8/5/2014 10:00	2-foot	6020	TestAmerica Seattle		21SS043-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-9	14NC21SS043-3	Solid	8/5/2014 10:07	3-foot	6020	TestAmerica Seattle		21SS043-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-10	14NC21SS044-1	Solid	8/5/2014 10:12	1-foot	6020	TestAmerica Seattle		21SS044-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-11	14NC21SS044-2	Solid	8/5/2014 10:17	2-foot	6020	TestAmerica Seattle		21SS044-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-12	14NC21SS044-3	Solid	8/5/2014 10:23	3-foot	6020	TestAmerica Seattle		21SS044-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-13	14NC21SS045-1	Solid	8/5/2014 10:28	1-foot	6020	TestAmerica Seattle		21SS045-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-14	14NC21SS045-1.5	Solid	8/5/2014 10:33	1-foot	6020	TestAmerica Seattle		21SS045-1.!	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-15	14NC21SS045-2	Solid	8/5/2014 10:40	2-foot	6020	TestAmerica Seattle	FD of 21SS045-1	21SS045-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-16	14NC21SS045-3	Solid	8/5/2014 10:46	3-foot	6020	TestAmerica Seattle		21SS045-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-17	14NC21SS046-1	Solid	8/5/2014 11:00	1-foot	6020	TestAmerica Seattle		21SS046-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-18	14NC21SS046-2	Solid	8/5/2014 10:59	2-foot	6020	TestAmerica Seattle		21SS046-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-19	14NC21SS046-3	Solid	8/5/2014 10:58	3-foot	6020	TestAmerica Seattle		21SS046-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-20	14NC21SS047-1	Solid	8/5/2014 11:16	1-foot	6020	TestAmerica Seattle		21SS047-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-21	14NC21SS047-2	Solid	8/5/2014 11:15	2-foot	6020	TestAmerica Seattle		21SS047-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-22	14NC21SS047-3	Solid	8/5/2014 11:13	3-foot	6020	TestAmerica Seattle		21SS047-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-23	14NC21SS048-1	Solid	8/5/2014 11:25	1-foot	6020	TestAmerica Seattle		21SS048-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-24	14NC21SS048-1.5	Solid	8/5/2014 11:30	1-foot	6020	TestAmerica Seattle	FD of 21SS048-1	21SS048-1.!	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-25	14NC21SS048-2	Solid	8/5/2014 11:32	2-foot	6020	TestAmerica Seattle	MS/MSD	21SS048-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-26	14NC21SS048-3	Solid	8/5/2014 11:38	3-foot	6020	TestAmerica Seattle		21SS048-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-27	14NC21SS049-1	Solid	8/5/2014 12:50	1-foot	6020	TestAmerica Seattle		21SS049-1	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-28	14NC21SS049-1.5	Solid	8/5/2014 12:55	1-foot	6020	TestAmerica Seattle	FD of 21SS049-1	21SS049-1.!	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-29	14NC21SS049-2	Solid	8/5/2014 13:05	2-foot	6020	TestAmerica Seattle	MS/MSD	21SS049-2	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44839-1	580-44839-30	14NC21SS049-3	Solid	8/5/2014 13:10	3-foot	6020	TestAmerica Seattle		21SS049-3	EB	Cool	1 OF 1	2_Day_RUS	Soil jar 4oz
580-44850-1	580-44850-1	14NC27SS01	Solid	8/7/2014 8:30	16'	AK102 & 103	TestAmerica Seattle		14NC27-01	EB	Cool	080714-2	1_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-1	MOCBW480	Solid	8/1/2014 8:40	Waste	AK102 & 103	TestAmerica Seattle		BW480	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-2	MOCBW481	Solid	8/1/2014 9:40	Waste	AK102 & 103	TestAmerica Seattle		BW481	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-3	MOCBW482	Solid	8/1/2014 11:15	Waste	AK102 & 103	TestAmerica Seattle		BW482	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-4	MOCBW483	Solid	8/1/2014 13:24	Waste	AK102 & 103	TestAmerica Seattle		BW483	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-5	MOCBW484	Solid	8/1/2014 14:45	Waste	AK102 & 103	TestAmerica Seattle		BW484	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-6	MOCBW485	Solid	8/1/2014 16:00	Waste	AK102 & 103	TestAmerica Seattle		BW485	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-7	MOCBW486	Solid	8/1/2014 17:10	Waste	AK102 & 103	TestAmerica Seattle		BW486	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-8	MOCBW487	Solid	8/2/2014 8:50	Waste	AK102 & 103	TestAmerica Seattle		BW487	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-9	MOCBW488	Solid	8/2/2014 9:50	Waste	AK102 & 103	TestAmerica Seattle		BW488	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-10	MOCBW489	Solid	8/2/2014 11:30	Waste	AK102 & 103	TestAmerica Seattle		BW489	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-11	MOCBW490	Solid	8/2/2014 13:15	Waste	AK102 & 103	TestAmerica Seattle		BW490	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-12	MOCBW491	Solid	8/2/2014 14:38	Waste	AK102 & 103	TestAmerica Seattle		BW491	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-13	MOCBW492	Solid	8/2/2014 14:38	Waste	AK102 & 103	TestAmerica Seattle		BW492	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-14	MOCBW493	Solid	8/2/2014 17:09	Waste	AK102 & 103	TestAmerica Seattle		BW493	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-15	MOCBW501	Solid	8/5/2014 14:51	Waste	AK102 & 103	TestAmerica Seattle		BW501	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-16	MOCBW502	Solid	8/5/2014 15:38	Waste	AK102 & 103	TestAmerica Seattle		BW502	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-17	MOCBW503	Solid	8/6/2014 15:40	Waste	AK102 & 103	TestAmerica Seattle		BW503	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-18	MOCBW504	Solid	8/6/2014 17:02	Waste	AK102 & 103	TestAmerica Seattle	MS/MSD	BW504	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-19	MOCBW505	Solid	8/7/2014 8:30	Waste	AK102 & 103	TestAmerica Seattle		BW505	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-20	MOCBW506	Solid	8/7/2014 10:40	Waste	AK102 & 103	TestAmerica Seattle		BW506	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-21	MOCBW566	Solid	8/1/2014 9:50	Waste	AK102 & 103	TestAmerica Seattle	FD of BW481	BW566	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44852-1	580-44852-22	MOCBW567	Solid	8/1/2014 15:00	Waste	AK102 & 103	TestAmerica Seattle	FD of BW484	BW567	EB	Cool	080714-3	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-1	14NC10SS024	Solid	8/8/2014 14:25	3'-4'	AK102 & 103	TestAmerica Seattle		10SS024	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-2	14NC10SS025	Solid	8/8/2014 14:30	3'-4'	AK102 & 103	TestAmerica Seattle		10SS025	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-3	14NC10SS026	Solid	8/8/2014 14:33	3'-4'	AK102 & 103	TestAmerica Seattle		10SS026	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-4	14NC10SS027	Solid	8/8/2014 14:36	3'-4'	AK102 & 103	TestAmerica Seattle	FD of 10SS026	10SS027	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-5	14NC10SS028	Solid	8/8/2014 15:14	3'-4'	AK102 & 103	TestAmerica Seattle		10SS028	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-6	14NC10SS029	Solid	8/8/2014 15:20	3'-4'	AK102 & 103	TestAmerica Seattle		10SS029	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44876-1	580-44876-7	14NC10SS030	Solid	8/8/2014 15:30	3'-4'	AK102 & 103	TestAmerica Seattle		10SS030	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-8	14NC10SS031	Solid	8/8/2014 16:00	3'-4'	AK102 & 103	TestAmerica Seattle	MS/MSD	10SS031	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-9	14NC10SS032	Solid	8/8/2014 16:12	3'-4'	AK102 & 103	TestAmerica Seattle		10SS032	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44876-1	580-44876-10	14NC10SS033	Solid	8/8/2014 15:43	3'-4'	AK102 & 103	TestAmerica Seattle		10SS033	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44877-1	580-44877-1	14NCMOCESS029	Solid	8/9/2014 8:00	12-14'	AK102 & 103	TestAmerica Seattle	MS/MSD	14NCE029	LK	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44877-1	580-44877-2	14NCMOCESS030	Solid	8/9/2014 8:10	15-16'	AK102 & 103	TestAmerica Seattle		14NCE030	LK	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44877-1	580-44877-3	14NCMOCESS031	Solid	8/9/2014 8:15	15-16'	AK102 & 103	TestAmerica Seattle	FD of MOCESS030	14NCE031	LK	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44879-1	580-44879-1	14NC32SS010	Solid	8/9/2014 8:50	2-foot	AK102 & 103	TestAmerica Seattle	MS/MSD	32SS010	EB	Cool	080914-3	2_Day_RUS	Soil Jar 4oz Amb
580-44879-1	580-44879-2	14NC32SS011	Solid	8/9/2014 8:55	2-foot	AK102 & 103	TestAmerica Seattle		32SS011	EB	Cool	080914-3	2_Day_RUS	Soil Jar 4oz Amb
580-44880-1	580-44880-1	14NCMOCSP018	Solid	8/9/2014 15:50	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP18	EB	Cool	080914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44880-1	580-44880-2	14NCMOCSP019	Solid	8/9/2014 16:00	0-4"	AK102 & 103	TestAmerica Seattle	FD of MOCSP018	14NCSP19	EB	Cool	080914-2	1_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-1	14NCPOSP01	Solid	8/10/2014 15:05	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-2	14NCPOSP02	Solid	8/10/2014 15:10	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-3	14NCPOSP03	Solid	8/10/2014 15:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-4	14NCPOSP04	Solid	8/10/2014 15:20	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-5	14NCPOSP05	Solid	8/10/2014 15:25	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-6	14NCPOSP06	Solid	8/10/2014 15:30	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-7	14NCPOSP07	Solid	8/10/2014 15:35	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-8	14NCPOSP08	Solid	8/10/2014 15:40	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-9	14NCPOSP09	Solid	8/10/2014 15:45	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP0	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-10	14NCPOSP10	Solid	8/10/2014 15:50	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-11	14NCPOSP11	Solid	8/10/2014 15:55	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-12	14NCPOSP12	Solid	8/10/2014 16:00	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-13	14NCPOSP13	Solid	8/10/2014 16:05	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-14	14NCPOSP14	Solid	8/10/2014 16:10	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-15	14NCPOSP15	Solid	8/10/2014 16:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-16	14NCPOSP16	Solid	8/10/2014 16:20	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-17	14NCPOSP17	Solid	8/10/2014 16:25	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-18	14NCPOSP18	Solid	8/10/2014 16:30	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-19	14NCPOSP19	Solid	8/10/2014 16:35	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP1	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-20	14NCPOSP20	Solid	8/10/2014 16:40	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-21	14NCPOSP21	Solid	8/10/2014 16:45	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP20	14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-22	14NCPOSP22	Solid	8/10/2014 16:50	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-23	14NCPOSP23	Solid	8/10/2014 16:55	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-24	14NCPOSP24	Solid	8/10/2014 17:00	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-25	14NCPOSP25	Solid	8/10/2014 17:05	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-26	14NCPOSP26	Solid	8/10/2014 17:07	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-27	14NCPOSP27	Solid	8/10/2014 17:09	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-28	14NCPOSP28	Solid	8/10/2014 17:11	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-29	14NCPOSP29	Solid	8/10/2014 17:13	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP2	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-30	14NCPOSP30	Solid	8/10/2014 17:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-31	14NCPOSP31	Solid	8/10/2014 17:17	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-32	14NCPOSP32	Solid	8/10/2014 17:19	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-33	14NCPOSP33	Solid	8/10/2014 17:21	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-34	14NCPOSP34	Solid	8/10/2014 17:23	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-35	14NCPOSP35	Solid	8/10/2014 17:25	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44887-1	580-44887-36	14NCPOSP36	Solid	8/10/2014 17:27	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	080914-1	2_Day_RUS	Soil Jar 4oz Amb
580-44891-1	580-44891-1	14NC21SW001	Water	8/7/2014 8:55	surface	6020	TestAmerica Seattle		21-SW-01	EB	Nitric Acid	Lg Rd/Wh	2_Day_RUS	Plastic 250ml
580-44891-1	580-44891-2	14NC21SW002	Water	8/7/2014 8:58	surface	6020	TestAmerica Seattle	FD of 21SW001	21-SW-02	EB	Nitric Acid	Lg Rd/Wh	2_Day_RUS	Plastic 250ml
580-44891-1	580-44891-3	14NC21SW003	Water	8/7/2014 9:14	surface	6020	TestAmerica Seattle	MS/MSD	21-SW-03	EB	Nitric Acid	Lg Rd/Wh	2_Day_RUS	Plastic 250ml
580-44891-1	580-44891-4	14NC21SS001	Solid	8/7/2014 14:55	surface	6020	TestAmerica Seattle	MS/MSD	21SS001	EB	Cool	Lg Rd/Wh	2_Day_RUS	Soil jar 4oz
580-44891-1	580-44891-5	14NC21SS002	Solid	8/7/2014 15:05	surface	6020	TestAmerica Seattle		21SS002	EB	Cool	Lg Rd/Wh	2_Day_RUS	Soil jar 4oz
580-44891-1	580-44891-6	14NC21SS003	Solid	8/7/2014 15:10	surface	6020	TestAmerica Seattle	FD of 21SS002	21SS003	EB	Cool	Lg Rd/Wh	2_Day_RUS	Soil jar 4oz
580-44894-1	580-44894-1	14NC06SS01	Solid	8/6/2014 16:00	6"	8082	TestAmerica Seattle	MS/MSD	14NC06SS0	EB	Cool	Lg Rd/Wh	3_Day_RUS	Soil jar 4oz
580-44894-1	580-44894-2	14NC06SS02	Solid	8/6/2014 16:10	18"	8082	TestAmerica Seattle		14NC06SS0	EB	Cool	Lg Rd/Wh	3_Day_RUS	Soil jar 4oz
580-44894-1	580-44894-3	14NC06SS03	Solid	8/6/2014 16:20	18"	8082	TestAmerica Seattle	FD of 06SS02	14NC06SS0	EB	Cool	Lg Rd/Wh	3_Day_RUS	Soil jar 4oz
580-44894-1	580-44894-4	14NC06SS04	Solid	8/6/2014 16:30	6"	8082	TestAmerica Seattle		14NC06SS0	EB	Cool	Lg Rd/Wh	3_Day_RUS	Soil jar 4oz
580-44894-1	580-44894-5	14NC06SS05	Solid	8/6/2014 16:35	3.5'	8082	TestAmerica Seattle		14NC06SS0	EB	Cool	Lg Rd/Wh	3_Day_RUS	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44895-1	580-44895-1	14NC27SS01	Solid	8/7/2014 8:30	16'	8270C SIM	TestAmerica Seattle	MS/MSD	14NC27-01	EB	Cool	Lg Rd/Wh	5_Day_RUS	Soil jar 4oz
580-44895-1	580-44895-2	14NC27SS02	Solid	8/7/2014 8:40	16'	8270C SIM	TestAmerica Seattle	FD of 27SS01	14NC27-02	EB	Cool	Lg Rd/Wh	5_Day_RUS	Soil jar 4oz
580-44897-1	580-44897-1	14NCPOSP20	Solid	8/11/2014 10:30	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP20	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-2	14NCPOSP21	Solid	8/11/2014 10:35	0-4"	AK102 & 103	TestAmerica Seattle		14NCSP21	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-3	14NCPOSP37	Solid	8/11/2014 11:00	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-4	14NCPOSP38	Solid	8/11/2014 11:05	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-5	14NCPOSP39	Solid	8/11/2014 11:10	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP3	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-6	14NCPOSP40	Solid	8/11/2014 11:15	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-7	14NCPOSP41	Solid	8/11/2014 11:20	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-8	14NCPOSP42	Solid	8/11/2014 11:25	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-9	14NCPOSP43	Solid	8/11/2014 11:30	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-10	14NCPOSP44	Solid	8/11/2014 11:35	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-11	14NCPOSP45	Solid	8/11/2014 11:40	0-4"	AK102 & 103	TestAmerica Seattle		14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-12	14NCPOSP46	Solid	8/11/2014 11:45	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP39	14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-13	14NCPOSP47	Solid	8/11/2014 11:50	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP40	14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-14	14NCPOSP48	Solid	8/11/2014 11:55	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP38	14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44897-1	580-44897-15	14NCPOSP49	Solid	8/11/2014 12:00	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP37	14NCPOSP4	EB	Cool	081114-1	1_Day_RUS	Soil Jar 4oz Amb
580-44911-1	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-2	14NC10SS025	Solid	8/8/2014 14:30	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-3	14NC10SS026	Solid	8/8/2014 14:33	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-4	14NC10SS027	Solid	8/8/2014 14:36	4'-6'	6020	TestAmerica Seattle	FD of 10SS026	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-5	14NC10SS028	Solid	8/8/2014 15:14	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-6	14NC10SS029	Solid	8/8/2014 15:20	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-7	14NC10SS030	Solid	8/8/2014 15:30	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-8	14NC10SS031	Solid	8/8/2014 16:00	4'-6'	6020	TestAmerica Seattle	MS/MSD	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-9	14NC10SS032	Solid	8/8/2014 16:12	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-10	14NC10SS033	Solid	8/8/2014 15:43	4'-6'	6020	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-2	14NC10SS025	Solid	8/8/2014 14:30	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-3	14NC10SS026	Solid	8/8/2014 14:33	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-4	14NC10SS027	Solid	8/8/2014 14:36	4'-6'	7471A	TestAmerica Seattle	FD of 10SS026	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-5	14NC10SS028	Solid	8/8/2014 15:14	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-6	14NC10SS029	Solid	8/8/2014 15:20	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-7	14NC10SS030	Solid	8/8/2014 15:30	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-8	14NC10SS031	Solid	8/8/2014 16:00	4'-6'	7471A	TestAmerica Seattle	MS/MSD	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-9	14NC10SS032	Solid	8/8/2014 16:12	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-10	14NC10SS033	Solid	8/8/2014 15:43	4'-6'	7471A	TestAmerica Seattle		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-2	14NC10SS025	Solid	8/8/2014 14:30	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-3	14NC10SS026	Solid	8/8/2014 14:33	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-4	14NC10SS027	Solid	8/8/2014 14:36	4'-6'	8015C	TestAmerica Denver	FD of 10SS026	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-5	14NC10SS028	Solid	8/8/2014 15:14	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-6	14NC10SS029	Solid	8/8/2014 15:20	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-7	14NC10SS030	Solid	8/8/2014 15:30	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-8	14NC10SS031	Solid	8/8/2014 16:00	4'-6'	8015C	TestAmerica Denver	MS/MSD	14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-9	14NC10SS032	Solid	8/8/2014 16:12	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-10	14NC10SS033	Solid	8/8/2014 15:43	4'-6'	8015C	TestAmerica Denver		14NC10SS0	EB	Cool	081114-001	5_Day_RUS	Soil jar 4oz
580-44911-1	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-2	14NC10SS025	Solid	8/8/2014 14:30	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-3	14NC10SS026	Solid	8/8/2014 14:33	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-4	14NC10SS027	Solid	8/8/2014 14:36	4'-6'	Ak101	TestAmerica Seattle	FD of 10SS026	14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-5	14NC10SS028	Solid	8/8/2014 15:14	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-6	14NC10SS029	Solid	8/8/2014 15:20	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-7	14NC10SS030	Solid	8/8/2014 15:30	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-8	14NC10SS031	Solid	8/8/2014 16:00	4'-6'	Ak101	TestAmerica Seattle	MS/MSD	14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-9	14NC10SS032	Solid	8/8/2014 16:12	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-10	14NC10SS033	Solid	8/8/2014 15:43	4'-6'	Ak101	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-11	TB081114-01	Solid	8/8/2014 0:00	NA	Ak101	TestAmerica Seattle	Trip Blank	TB081114-0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44911-1	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-2	14NC10SS025	Solid	8/8/2014 14:30	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-3	14NC10SS026	Solid	8/8/2014 14:33	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-4	14NC10SS027	Solid	8/8/2014 14:36	4'-6'	8260B	TestAmerica Seattle	FD of 10SS026	14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-5	14NC10SS028	Solid	8/8/2014 15:14	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-6	14NC10SS029	Solid	8/8/2014 15:20	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-7	14NC10SS030	Solid	8/8/2014 15:30	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-8	14NC10SS031	Solid	8/8/2014 16:00	4'-6'	8260B	TestAmerica Seattle	MS/MSD	14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-9	14NC10SS032	Solid	8/8/2014 16:12	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-10	14NC10SS033	Solid	8/8/2014 15:43	4'-6'	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-1	580-44911-11	TB081114-01	Solid	8/8/2014 0:00	NA	8260B	TestAmerica Seattle	Trip Blank	TB081114-0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44911-2	580-44911-1	14NC10SS024	Solid	8/8/2014 14:25	Waste	8260B	TestAmerica Seattle		14NC10SS0	EB	Methanol	081114-001	Soil jar 4oz	Soil jar 4oz
580-44912-1	580-44912-1	14NC21SS004	Solid	8/10/2014 9:30	4'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-2	14NC21SS005	Solid	8/10/2014 9:32	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-3	14NC21SS006	Solid	8/10/2014 9:35	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-4	14NC21SS007	Solid	8/10/2014 10:25	4'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-5	14NC21SS008	Solid	8/10/2014 10:27	3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-6	14NC21SS009	Solid	8/10/2014 10:30	3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-7	14NC21SS010	Solid	8/10/2014 11:08	4'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-8	14NC21SS011	Solid	8/10/2014 11:10	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-9	14NC21SS012	Solid	8/10/2014 11:14	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-10	14NC21SS013	Solid	8/10/2014 14:05	4'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-11	14NC21SS014	Solid	8/10/2014 14:09	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-12	14NC21SS015	Solid	8/10/2014 14:12	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-13	14NC21SS016	Solid	8/10/2014 14:18	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-14	14NC21SS017	Solid	8/10/2014 14:40	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-15	14NC21SS018	Solid	8/10/2014 14:45	2-3'	6020	TestAmerica Seattle	FD of 21SS017	14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-16	14NC21SS019	Solid	8/10/2014 15:22	4'	6020	TestAmerica Seattle	MS/MSD	14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-17	14NC21SS020	Solid	8/10/2014 15:25	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-18	14NC21SS021	Solid	8/10/2014 15:26	2-3'	6020	TestAmerica Seattle	MS/MSD	14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-19	14NC21SS022	Solid	8/10/2014 15:28	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-20	14NC21SS023	Solid	8/10/2014 15:35	2-3'	6020	TestAmerica Seattle		14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44912-1	580-44912-21	14NC21SS024	Solid	8/11/2014 15:40	2-3'	6020	TestAmerica Seattle	FD of 21SS023	14NC21SS0	EB	Cool	081114-001	2_Day_RUS	Soil jar 4oz
580-44913-1	580-44913-1	14NC21BW001	Solid	8/10/2014 12:00	Waste	6020	TestAmerica Seattle		14NC21BW0	EB	Cool	081114-001	3_Day_RUS	Soil jar 4oz
580-44913-1	580-44913-2	14NC21BW002	Solid	8/10/2014 15:00	Waste	6020	TestAmerica Seattle	MS/MSD	14NC21BW0	EB	Cool	081114-001	3_Day_RUS	Soil jar 4oz
580-44915-1	580-44915-1	14NCSP022	Solid	8/12/2014 14:17	12"	AK102 & 103	TestAmerica Seattle	MS/MSD	SP022	EB	Cool	081214-01	2_Day_RUS	Soil Jar 4oz Amb
580-44915-1	580-44915-2	14NCSP023	Solid	8/12/2014 14:18	12"	AK102 & 103	TestAmerica Seattle	FD of SP022	SP023	EB	Cool	081214-01	2_Day_RUS	Soil Jar 4oz Amb
580-44915-1	580-44915-3	14NCSP024	Solid	8/12/2014 14:20	12"	AK102 & 103	TestAmerica Seattle		SP024	EB	Cool	081214-01	2_Day_RUS	Soil Jar 4oz Amb
580-44915-1	580-44915-4	14NCSP025	Solid	8/12/2014 14:24	12"	AK102 & 103	TestAmerica Seattle		SP025	EB	Cool	081214-01	2_Day_RUS	Soil Jar 4oz Amb
580-44915-1	580-44915-5	14NCSP026	Solid	8/12/2014 14:26	12"	AK102 & 103	TestAmerica Seattle		SP026	EB	Cool	081214-01	2_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-1	14NCPOSP046-2	Solid	8/12/2014 9:30	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	POSP046-2	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-2	14NCPOSP047-2	Solid	8/12/2014 9:31	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP46-2	POSP047-2	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-3	14NCPOSP048-2	Solid	8/12/2014 9:32	0-4"	AK102 & 103	TestAmerica Seattle		POSP048-2	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-4	14NCPOSP049-2	Solid	8/12/2014 9:33	0-4"	AK102 & 103	TestAmerica Seattle		POSP049-2	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-5	14NCPOSP050	Solid	8/12/2014 9:34	0-4"	AK102 & 103	TestAmerica Seattle		POSP050	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-6	14NCPOSP051	Solid	8/12/2014 9:35	0-4"	AK102 & 103	TestAmerica Seattle		POSP051	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-7	14NCPOSP052	Solid	8/12/2014 9:36	0-4"	AK102 & 103	TestAmerica Seattle		POSP052	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-8	14NCPOSP053	Solid	8/12/2014 9:37	0-4"	AK102 & 103	TestAmerica Seattle		POSP053	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-9	14NCPOSP054	Solid	8/12/2014 9:38	0-4"	AK102 & 103	TestAmerica Seattle		POSP054	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-10	14NCPOSP055	Solid	8/12/2014 9:39	0-4"	AK102 & 103	TestAmerica Seattle		POSP055	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-11	14NCPOSP056	Solid	8/12/2014 9:40	0-4"	AK102 & 103	TestAmerica Seattle		POSP056	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-12	14NCPOSP057	Solid	8/12/2014 9:41	0-4"	AK102 & 103	TestAmerica Seattle		POSP057	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-13	14NCPOSP058	Solid	8/12/2014 9:42	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	POSP058	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-14	14NCPOSP059	Solid	8/12/2014 9:43	0-4"	AK102 & 103	TestAmerica Seattle		POSP059	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-15	14NCPOSP060	Solid	8/12/2014 9:44	0-4"	AK102 & 103	TestAmerica Seattle		POSP060	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-16	14NCPOSP061	Solid	8/12/2014 9:45	0-4"	AK102 & 103	TestAmerica Seattle		POSP061	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-17	14NCPOSP062	Solid	8/12/2014 9:46	0-4"	AK102 & 103	TestAmerica Seattle		POSP062	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-18	14NCPOSP063	Solid	8/12/2014 9:47	0-4"	AK102 & 103	TestAmerica Seattle		POSP063	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-44917-1	580-44917-19	14NCPOSP064	Solid	8/12/2014 9:48	0-4"	AK102 & 103	TestAmerica Seattle		POSP064	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-20	14NCPOSP065	Solid	8/12/2014 9:49	0-4"	AK102 & 103	TestAmerica Seattle		POSP065	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-21	14NCPOSP066	Solid	8/12/2014 9:50	0-4"	AK102 & 103	TestAmerica Seattle		POSP066	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-22	14NCPOSP067	Solid	8/12/2014 9:51	0-4"	AK102 & 103	TestAmerica Seattle		POSP067	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-23	14NCPOSP068	Solid	8/12/2014 9:52	0-4"	AK102 & 103	TestAmerica Seattle		POSP068	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-24	14NCPOSP069	Solid	8/12/2014 9:53	0-4"	AK102 & 103	TestAmerica Seattle		POSP069	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-25	14NCPOSP070	Solid	8/12/2014 9:54	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	POSP070	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-26	14NCPOSP071	Solid	8/12/2014 9:55	0-4"	AK102 & 103	TestAmerica Seattle		POSP071	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-27	14NCPOSP072	Solid	8/12/2014 9:56	0-4"	AK102 & 103	TestAmerica Seattle		POSP072	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-28	14NCPOSP073	Solid	8/12/2014 9:57	0-4"	AK102 & 103	TestAmerica Seattle		POSP073	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-29	14NCPOSP074	Solid	8/12/2014 9:58	0-4"	AK102 & 103	TestAmerica Seattle		POSP074	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-30	14NCPOSP075	Solid	8/12/2014 9:59	0-4"	AK102 & 103	TestAmerica Seattle		POSP075	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-31	14NCPOSP076	Solid	8/12/2014 10:00	0-4"	AK102 & 103	TestAmerica Seattle		POSP076	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-32	14NCPOSP077	Solid	8/12/2014 10:01	0-4"	AK102 & 103	TestAmerica Seattle		POSP077	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-33	14NCPOSP078	Solid	8/12/2014 10:02	0-4"	AK102 & 103	TestAmerica Seattle		POSP078	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-34	14NCPOSP079	Solid	8/12/2014 10:03	0-4"	AK102 & 103	TestAmerica Seattle		POSP079	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-35	14NCPOSP080	Solid	8/12/2014 10:04	0-4"	AK102 & 103	TestAmerica Seattle		POSP080	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-36	14NCPOSP081	Solid	8/12/2014 10:05	0-4"	AK102 & 103	TestAmerica Seattle		POSP081	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-37	14NCPOSP082	Solid	8/12/2014 10:06	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP050	POSP082	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-38	14NCPOSP083	Solid	8/12/2014 10:07	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP055	POSP083	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-39	14NCPOSP084	Solid	8/12/2014 10:08	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP060	POSP084	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-40	14NCPOSP085	Solid	8/12/2014 10:09	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP065	POSP085	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-41	14NCPOSP086	Solid	8/12/2014 10:10	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP070	POSP086	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-42	14NCPOSP087	Solid	8/12/2014 10:11	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP075	POSP087	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-43	14NCPOSP088	Solid	8/12/2014 10:12	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP077	POSP088	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-44	14NCPOSP089	Solid	8/12/2014 10:13	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP080	POSP089	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44917-1	580-44917-45	14NCPOSP090	Solid	8/12/2014 10:14	0-4"	AK102 & 103	TestAmerica Seattle	FD of POSP081	POSP090	EB	Cool	081214-02	3_Day_RUS	Soil Jar 4oz Amb
580-44923-1	580-44923-1	14NC21SW004	Water	8/10/2014 15:00	surface	6020	TestAmerica Seattle		14NC21SW0	EB	Nitric Acid	081114-001	15_Days	Plastic 250ml
580-44923-1	580-44923-2	14NC21SW005	Water	8/10/2014 15:05	surface	6020	TestAmerica Seattle	FD of 21SW004	14NC21SW0	EB	Nitric Acid	081114-001	15_Days	Plastic 250ml
580-44923-1	580-44923-3	14NC21SW006	Water	8/10/2014 15:15	surface	6020	TestAmerica Seattle	MS/MSD	14NC21SW0	EB	Nitric Acid	081114-001	15_Days	Plastic 250ml
580-44975-1	580-44975-1	14NC08SWA01	Water	8/12/2014 16:45	surface	8260B	TestAmerica Seattle	MS/MSD	08SW01	EB	Hydrochloric Acid	081314-1	14_Days	Voa Vial 40ml
580-44975-1	580-44975-2	14NC08SWA02	Water	8/12/2014 16:50	surface	8260B	TestAmerica Seattle		08SW02	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-3	14NC08SWA03	Water	8/12/2014 17:00	surface	8260B	TestAmerica Seattle	FD of 08SWA02	08SW03	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-4	Trip Blank 080414-1	Water	8/12/2014 0:01	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-1	14NC08SWA01	Water	8/12/2014 16:45	surface	AK101	TestAmerica Seattle	MS/MSD	08SW01	EB	Hydrochloric Acid	081314-1	14_Days	Voa Vial 40ml
580-44975-1	580-44975-2	14NC08SWA02	Water	8/12/2014 16:50	surface	AK101	TestAmerica Seattle		08SW02	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-3	14NC08SWA03	Water	8/12/2014 17:00	surface	AK101	TestAmerica Seattle	FD of 08SWA02	08SW03	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-4	Trip Blank 080414-1	Water	8/12/2014 0:01	NA	8270C SIM	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Hydrochloric Acid	081314-2	14_Days	Voa Vial 40ml
580-44975-1	580-44975-1	14NC08SWA01	Water	8/12/2014 16:45	surface	8270C SIM	TestAmerica Seattle	MS/MSD	08SW01	EB	Hydrochloric Acid	081314-1	14_Days	Amber Glass 1 li
580-44975-1	580-44975-2	14NC08SWA02	Water	8/12/2014 16:50	surface	8270C SIM	TestAmerica Seattle		08SW02	EB	Hydrochloric Acid	081314-2	14_Days	Amber Glass 1 li
580-44975-1	580-44975-3	14NC08SWA03	Water	8/12/2014 17:00	surface	8270C SIM	TestAmerica Seattle	FD of 08SWA02	08SW03	EB	Hydrochloric Acid	081314-2	14_Days	Amber Glass 1 li
580-44975-1	580-44975-1	14NC08SWA01	Water	8/12/2014 16:45	surface	AK102 & 103	TestAmerica Seattle	MS/MSD	08SW01	EB	Hydrochloric Acid	081314-1	14_Days	Amber Glass 1 li
580-44975-1	580-44975-2	14NC08SWA02	Water	8/12/2014 16:50	surface	AK102 & 103	TestAmerica Seattle		08SW02	EB	Hydrochloric Acid	081314-2	14_Days	Amber Glass 1 li
580-44975-1	580-44975-3	14NC08SWA03	Water	8/12/2014 17:00	surface	AK102 & 103	TestAmerica Seattle	FD of 08SWA02	08SW03	EB	Hydrochloric Acid	081314-2	14_Days	Amber Glass 1 li
580-45000-1	580-45000-1	MOCBW507	Solid	8/6/2014 14:00	Waste	AK102 & 103	TestAmerica Seattle	MS/MSD	MOCBW507	EB	Cool	080614-1	2_Day_RUS	Soil Jar 4oz Amb
580-45000-1	580-45000-2	MOCBW568	Solid	8/6/2014 14:30	Waste	AK102 & 103	TestAmerica Seattle	FD of BW507	MOCBW568	EB	Cool	080614-1	2_Day_RUS	Soil Jar 4oz Amb
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	6020	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	6020	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	6020	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	8082	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	8082	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	8082	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	7471A	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	7471A	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	7471A	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	8270C SIM	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	8270C SIM	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	8270C SIM	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	AK102 & 103	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	AK102 & 104	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	AK102 & 105	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	AK102/103-SG	TestAmerica Seattle		MI28-001	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	AK102/103-SG	TestAmerica Seattle	FD of MI001	MI28-002	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	AK102/103-SG	TestAmerica Seattle	FD of MI001	MI28-003	EB	Cool	lg b/w	15_Days	Plastic Bag
580-45009-1	580-45009-1	14NC28MI001	Solid	8/9/2014 14:55	0-4"	8260B	TestAmerica Seattle	MS/MSD	MI28-001	EB	Methanol	lg b/w	15_Days	Voa Vial 40ml
580-45009-1	580-45009-2	14NC28MI002	Solid	8/9/2014 15:10	0-4"	8260B	TestAmerica Seattle	FD of MI001	MI28-002	EB	Methanol	lg b/w	15_Days	Voa Vial 40ml
580-45009-1	580-45009-3	14NC28MI003	Solid	8/9/2014 15:35	0-4"	8260B	TestAmerica Seattle	FD of MI001	MI28-003	EB	Methanol	lg b/w	15_Days	Voa Vial 40ml
580-45009-1	580-45009-4	Trip Blank 080914-1	Solid	8/9/2014 0:01	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Methanol	lg b/w	15_Days	Soil jar 4oz
580-45035-1	580-45035-1	14NC21SS025	Solid	8/19/2014 11:10	2'	6020	TestAmerica Seattle		21SS0025	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-2	14NC21SS026	Solid	8/19/2014 11:12	1'	6020	TestAmerica Seattle		21SS0026	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-3	14NC21SS027	Solid	8/19/2014 11:14	1'	6020	TestAmerica Seattle	FD of 21SS028	21SS0027	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-4	14NC21SS028	Solid	8/19/2014 11:16	1'	6020	TestAmerica Seattle		21SS0028	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-5	14NC21SS029	Solid	8/19/2014 11:18	1'	6020	TestAmerica Seattle		21SS0029	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-6	14NC21SS030	Solid	8/19/2014 11:20	1'	6020	TestAmerica Seattle		21SS0030	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-7	14NC21SS031	Solid	8/19/2014 11:36	2'	6020	TestAmerica Seattle		21SS0031	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-8	14NC21SS032	Solid	8/19/2014 11:38	1'	6020	TestAmerica Seattle		21SS0032	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-9	14NC21SS033	Solid	8/19/2014 11:40	1'	6020	TestAmerica Seattle	MS/MSD	21SS0033	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-10	14NC21SS034	Solid	8/19/2014 11:42	1'	6020	TestAmerica Seattle		21SS0034	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-11	14NC21SS035	Solid	8/19/2014 11:44	1'	6020	TestAmerica Seattle		21SS0035	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45035-1	580-45035-12	21BW-003	Solid	8/19/2014 11:30	Waste	6020	TestAmerica Seattle		21BW-003	EB	Cool	large red/wh	2_Day_RUS	Soil jar 8oz
580-45105-1	580-45105-1	14NC10SS041	Solid	8/22/2014 9:28	3-5'	8260B	TestAmerica Seattle		10SS041	EB	Methanol	082214-01	5_Day_RUS	Soil jar 4oz
580-45105-1	580-45105-2	14NC10SS042	Solid	8/22/2014 9:30	3-5'	8260B	TestAmerica Seattle	FD of 10SS041	10SS042	EB	Methanol	082214-01	5_Day_RUS	Soil jar 4oz
580-45105-1	580-45105-3	14NC10SS043	Solid	8/22/2014 9:32	6-7'	8260B	TestAmerica Seattle	MS/MSD	10SS043	EB	Methanol	082214-01	5_Day_RUS	Soil jar 4oz
580-45105-1	580-45105-4	14NC10SS044	Solid	8/22/2014 9:40	3-5'	8260B	TestAmerica Seattle		10SS044	EB	Methanol	082214-01	5_Day_RUS	Soil jar 4oz
580-45105-1	580-45105-5	TB082214-1	Solid	8/22/2014 0:00	NA	8260B	TestAmerica Seattle	trip Blank	Trip Blank	EB	Methanol	082214-01	5_Day_RUS	Soil jar 4oz
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	6020	TestAmerica Seattle		26MW1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	6020	TestAmerica Seattle		22MW3	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	6020	TestAmerica Seattle		22MW2	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	6020	TestAmerica Seattle		20MW1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	6020	TestAmerica Seattle		88MW10	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	6020	TestAmerica Seattle		14MW01	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	6020	TestAmerica Seattle		17MW07	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	6020	TestAmerica Seattle		MW88-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	6020	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	6020	TestAmerica Seattle		MW88-3	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	6020	TestAmerica Seattle		14MW02	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	6020	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	6020	TestAmerica Seattle		14MW03	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	6020	TestAmerica Seattle		14MW04	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	6020	TestAmerica Seattle		14MW05	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	6020	TestAmerica Seattle		14MW06	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	6020	TestAmerica Seattle		MW 10-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	7470	TestAmerica Seattle		26MW1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	7470	TestAmerica Seattle		22MW3	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	7470	TestAmerica Seattle		22MW2	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	7470	TestAmerica Seattle		20MW1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	7470	TestAmerica Seattle		88MW10	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	7470	TestAmerica Seattle		14MW01	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	7470	TestAmerica Seattle		17MW07	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	7470	TestAmerica Seattle		MW88-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	7470	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	7470	TestAmerica Seattle		MW88-3	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	7470	TestAmerica Seattle		14MW02	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	7470	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	7470	TestAmerica Seattle		14MW03	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	7470	TestAmerica Seattle		14MW04	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	7470	TestAmerica Seattle		14MW05	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	7470	TestAmerica Seattle		14MW06	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	7470	TestAmerica Seattle		MW 10-1	LK	Nitric Acid	082414-2	15_Days	Plastic 500ml
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	8082	TestAmerica Seattle		26MW1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	8082	TestAmerica Seattle		22MW3	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	8082	TestAmerica Seattle		22MW2	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	8082	TestAmerica Seattle		20MW1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	8082	TestAmerica Seattle		88MW10	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	8082	TestAmerica Seattle		14MW01	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	8082	TestAmerica Seattle		17MW07	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	8082	TestAmerica Seattle		MW88-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	8082	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	8082	TestAmerica Seattle		MW88-3	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	8082	TestAmerica Seattle		14MW02	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	8082	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	8082	TestAmerica Seattle		14MW03	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	8082	TestAmerica Seattle		14MW04	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	8082	TestAmerica Seattle		14MW05	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	8082	TestAmerica Seattle		14MW06	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	8082	TestAmerica Seattle		MW 10-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	8270C SIM	TestAmerica Seattle		26MW1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	8270C SIM	TestAmerica Seattle		22MW3	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	8270C SIM	TestAmerica Seattle		22MW2	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	8270C SIM	TestAmerica Seattle		20MW1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	8270C SIM	TestAmerica Seattle		88MW10	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	8270C SIM	TestAmerica Seattle		14MW01	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	8270C SIM	TestAmerica Seattle		17MW07	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	8270C SIM	TestAmerica Seattle		MW88-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	8270C SIM	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	8270C SIM	TestAmerica Seattle		MW88-3	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	8270C SIM	TestAmerica Seattle		14MW02	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	8270C SIM	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	8270C SIM	TestAmerica Seattle		14MW03	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	8270C SIM	TestAmerica Seattle		14MW04	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	8270C SIM	TestAmerica Seattle		14MW05	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	8270C SIM	TestAmerica Seattle		14MW06	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	8270C SIM	TestAmerica Seattle		MW 10-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	AK102 & 103	TestAmerica Seattle		26MW1	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	AK102 & 103	TestAmerica Seattle		22MW3	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	AK102 & 103	TestAmerica Seattle		22MW2	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	AK102 & 103	TestAmerica Seattle		20MW1	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	AK102 & 103	TestAmerica Seattle		88MW10	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	AK102 & 103	TestAmerica Seattle		14MW01	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	AK102 & 103	TestAmerica Seattle		17MW07	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	AK102 & 103	TestAmerica Seattle		MW88-1	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	AK102 & 103	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	AK102 & 103	TestAmerica Seattle		MW88-3	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	AK102 & 103	TestAmerica Seattle		14MW02	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	AK102 & 103	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	AK102 & 103	TestAmerica Seattle		14MW03	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	AK102 & 103	TestAmerica Seattle		14MW04	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	AK102 & 103	TestAmerica Seattle		14MW05	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	AK102 & 103	TestAmerica Seattle		14MW06	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	AK102 & 103	TestAmerica Seattle		MW 10-1	LK	Hydrochloric Acid	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	8260B	TestAmerica Seattle	MS/MSD	26MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	8260B	TestAmerica Seattle		22MW3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	8260B	TestAmerica Seattle		22MW2	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	8260B	TestAmerica Seattle		20MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	8260B	TestAmerica Seattle		88MW10	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	8260B	TestAmerica Seattle		14MW01	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	8260B	TestAmerica Seattle		17MW07	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	8260B	TestAmerica Seattle		MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	8260B	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	8260B	TestAmerica Seattle		MW88-3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	8260B	TestAmerica Seattle		14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	8260B	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	8260B	TestAmerica Seattle		14MW03	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	8260B	TestAmerica Seattle		14MW04	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	8260B	TestAmerica Seattle		14MW05	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	8260B	TestAmerica Seattle		14MW06	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	8260B	TestAmerica Seattle		MW 10-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-18	Trip Blank 082414	Water	8/20/2014 0:00	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	8015C	TestAmerica Denver	MS/MSD	MW 10-1	LK	Cool	082414-2	15_Days	Amber Glass 1 li
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	AK101	TestAmerica Seattle	MS/MSD	26MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	AK101	TestAmerica Seattle		22MW3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	AK101	TestAmerica Seattle		22MW2	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	AK101	TestAmerica Seattle		20MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	AK101	TestAmerica Seattle		88MW10	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	AK101	TestAmerica Seattle		14MW01	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	AK101	TestAmerica Seattle		17MW07	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	AK101	TestAmerica Seattle		MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	AK101	TestAmerica Seattle	FD of MOCGW08	MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	AK101	TestAmerica Seattle		MW88-3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	AK101	TestAmerica Seattle		14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	AK101	TestAmerica Seattle	FD of MOCGW11	14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	AK101	TestAmerica Seattle		14MW03	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	AK101	TestAmerica Seattle		14MW04	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	AK101	TestAmerica Seattle		14MW05	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	AK101	TestAmerica Seattle		14MW06	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	AK101	TestAmerica Seattle		MW 10-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-18	Trip Blank 082414	Water	8/20/2014 0:00	NA	AK101	TestAmerica Seattle	Trip Blank	Trip Blank	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-1	14NCMOCGW01	Water	8/20/2014 11:50	36.85'	RSK-175	TestAmerica Denver	MS/MSD	26MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-2	14NCMOCGW02	Water	8/20/2014 15:30	29.48'	RSK-175	TestAmerica Denver		22MW3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-3	14NCMOCGW03	Water	8/20/2014 16:30	12.59'	RSK-175	TestAmerica Denver		22MW2	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-4	14NCMOCGW04	Water	8/21/2014 11:00	24.42'	RSK-175	TestAmerica Denver		20MW1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-5	14NCMOCGW05	Water	8/21/2014 12:00	22.51'	RSK-175	TestAmerica Denver		88MW10	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-6	14NCMOCGW06	Water	8/21/2014 15:30	16.16'	RSK-175	TestAmerica Denver		14MW01	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-7	14NCMOCGW07	Water	8/21/2014 17:30	27.52'	RSK-175	TestAmerica Denver		17MW07	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-8	14NCMOCGW08	Water	8/22/2014 9:30	18.65'	RSK-175	TestAmerica Denver		MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-9	14NCMOCGW09	Water	8/22/2014 9:40	18.65'	RSK-175	TestAmerica Denver	FD of MOCGW08	MW88-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-10	14NCMOCGW10	Water	8/22/2014 14:50	13.96'	RSK-175	TestAmerica Denver		MW88-3	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-11	14NCMOCGW11	Water	8/22/2014 17:00	11.26'	RSK-175	TestAmerica Denver		14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-12	14NCMOCGW12	Water	8/22/2014 17:30	11.26'	RSK-175	TestAmerica Denver	FD of MOCGW11	14MW02	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-13	14NCMOCGW13	Water	8/23/2014 10:50	13.40'	RSK-175	TestAmerica Denver		14MW03	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-14	14NCMOCGW14	Water	8/23/2014 12:00	4.42'	RSK-175	TestAmerica Denver		14MW04	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-15	14NCMOCGW15	Water	8/23/2014 15:00	4.81'	RSK-175	TestAmerica Denver		14MW05	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-16	14NCMOCGW16	Water	8/23/2014 14:55	5.65'	RSK-175	TestAmerica Denver		14MW06	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-17	14NCMOCGW17	Water	8/23/2014 17:15	7.15'	RSK-175	TestAmerica Denver		MW 10-1	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45122-1	580-45122-18	Trip Blank 082414	Water	8/20/2014 0:00	NA	RSK-175	TestAmerica Denver	Trip Blank	Trip Blank	LK	Hydrochloric Acid	082414-1	15_Days	Voa Vial 40ml
580-45125-1	580-45125-1	14NCMOCSW09	Water	8/24/2014 15:20	surface	8260B	TestAmerica Seattle		MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-2	14NCMOCSW10	Water	8/24/2014 15:30	surface	8260B	TestAmerica Seattle	FD of MOC SW09	MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-3	14NCMOCSW11	Water	8/24/2014 15:40	surface	8260B	TestAmerica Seattle		MOCSW02	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-4	14NCMOCSW12	Water	8/24/2014 15:50	surface	8260B	TestAmerica Seattle	MS/MSD	MOCSW03	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-5	Trip Blank 082514-1	Water	8/24/2014 0:00	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-6	14NC21SW004	Water	8/10/2014 15:00	surface	6020	TestAmerica Seattle		21-SW-04	EB	Nitric Acid	082514-3	15_Days	Plastic 250ml
580-45125-1	580-45125-7	14NC21SW005	Water	8/10/2014 15:05	surface	6020	TestAmerica Seattle	FD of 21SW004	21-SW-05	EB	Nitric Acid	082514-3	15_Days	Plastic 250ml

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-45125-1	580-45125-8	14NC21SW007	Water	8/24/2014 16:45	surface	6020	TestAmerica Seattle		21-SW-06	EB	Nitric Acid	082514-3	15_Days	Plastic 250ml
580-45125-1	580-45125-9	14NC21SW008	Water	8/25/2014 16:50	surface	6020	TestAmerica Seattle	FD of 21SW007	21-SW-08	EB	Nitric Acid	082514-3	15_Days	Plastic 250ml
580-45125-1	580-45125-10	14NC21SW009	Water	8/24/2014 16:55	surface	6020	TestAmerica Seattle	MS/MSD	21-SW-09		Nitric Acid	082514-3	15_Days	Plastic 250ml
580-45125-1	580-45125-1	14NCMOCSW09	Water	8/24/2014 15:20	surface	AK101	TestAmerica Seattle		MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-2	14NCMOCSW10	Water	8/24/2014 15:30	surface	AK101	TestAmerica Seattle	FD of MOC SW09	MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-3	14NCMOCSW11	Water	8/24/2014 15:40	surface	AK101	TestAmerica Seattle		MOCSW02	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-4	14NCMOCSW12	Water	8/24/2014 15:50	surface	AK101	TestAmerica Seattle	MS/MSD	MOCSW03	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-5	Trip Blank 082514-1	Water	8/24/2014 0:00	NA	AK101	TestAmerica Seattle	Trip Blank	Trip Blank	LK	Hydrochloric Acid	082514-3	15_Days	Voa Vial 40ml
580-45125-1	580-45125-1	14NCMOCSW09	Water	8/24/2014 15:20	surface	8270C SIM	TestAmerica Seattle		MOCSW01	LK	Cool	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-2	14NCMOCSW10	Water	8/24/2014 15:30	surface	8270C SIM	TestAmerica Seattle	FD of MOC SW09	MOCSW01	LK	Cool	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-3	14NCMOCSW11	Water	8/24/2014 15:40	surface	8270C SIM	TestAmerica Seattle		MOCSW02	LK	Cool	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-4	14NCMOCSW12	Water	8/24/2014 15:50	surface	8270C SIM	TestAmerica Seattle		MOCSW03	LK	Cool	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-1	14NCMOCSW09	Water	8/24/2014 15:20	surface	AK102 & 103	TestAmerica Seattle		MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-2	14NCMOCSW10	Water	8/24/2014 15:30	surface	AK102 & 103	TestAmerica Seattle	FD of MOC SW09	MOCSW01	LK	Hydrochloric Acid	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-3	14NCMOCSW11	Water	8/24/2014 15:40	surface	AK102 & 103	TestAmerica Seattle		MOCSW02	LK	Hydrochloric Acid	082514-3	15_Days	Amber Glass 1 li
580-45125-1	580-45125-4	14NCMOCSW12	Water	8/24/2014 15:50	surface	AK102 & 103	TestAmerica Seattle	MS/MSD	MOCSW03	LK	Hydrochloric Acid	082514-3	15_Days	Amber Glass 1 li
580-45126-1	580-45126-1	14NCMOCMI001	Solid	8/17/2014 13:30	0-4"	8260B	TestAmerica Seattle		MOCMI01	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-2	14NCMOCMI002	Solid	8/20/2014 10:30	0-4"	8260B	TestAmerica Seattle	MS/MSD	MOCMI02	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-3	14NCMOCMI003	Solid	8/22/2014 15:00	0-4"	8260B	TestAmerica Seattle		MOCMI03	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-4	Trip Blank 081714-1	Solid	8/17/2014 0:00	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank		Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-1	14NCMOCMI001	Solid	8/17/2014 13:30	0-4"	AK101	TestAmerica Seattle		MOCMI01	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-2	14NCMOCMI002	Solid	8/20/2014 10:30	0-4"	AK101	TestAmerica Seattle	MS/MSD	MOCMI02	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-3	14NCMOCMI003	Solid	8/22/2014 15:00	0-4"	AK101	TestAmerica Seattle		MOCMI03	EB	Methanol	082514-3	15_Days	Soil jar 4oz -
580-45126-1	580-45126-4	Trip Blank 081714-1	Solid	8/17/2014 0:00	NA	AK101	TestAmerica Seattle	Trip Blank	Trip Blank		Methanol	082514-3	15_Days	Plastic Bag
580-45126-1	580-45126-1	14NCMOCMI001	Solid	8/17/2014 13:30	0-4"	AK102 & 103	TestAmerica Seattle		MOCMI01	EB	Methanol	082514-3	15_Days	Plastic Bag
580-45126-1	580-45126-2	14NCMOCMI002	Solid	8/20/2014 10:30	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	MOCMI02	EB	Methanol	082514-3	15_Days	Plastic Bag
580-45126-1	580-45126-3	14NCMOCMI003	Solid	8/22/2014 15:00	0-4"	AK102 & 103	TestAmerica Seattle		MOCMI03	EB	Methanol	082514-3	15_Days	Plastic Bag
580-45739-1	580-45739-1	14NC10SS045	Solid	9/30/2014 10:00	4-6'	8260B	TestAmerica Seattle		10SS045	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45739-1	580-45739-2	14NC10SS046	Solid	9/30/2014 10:05	4-6'	8260B	TestAmerica Seattle	FD of 10SS045	10SS046	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45739-1	580-45739-3	14NC10SS047	Solid	9/30/2014 10:15	6-8'	8260B	TestAmerica Seattle	MS/MSD	10SS047	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45739-1	580-45739-4	Trip Blank 093014-01	Solid	9/30/2014 10:00	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45740-1	580-45740-1	14NOCMOCMI004	Solid	9/30/2014 15:00	0-4"	8260B	TestAmerica Seattle	MS/MSD	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml
580-45740-1	580-45740-2	14NOCMOCMI005	Solid	9/30/2014 15:30	0-4"	8260B	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml
580-45740-1	580-45740-3	14NOCMOCMI006	Solid	9/30/2014 16:00	0-4"	8260B	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml
580-45740-1	580-45740-4	Trip Blank 093014-02	Solid	9/30/2014 15:00	NA	8260B	TestAmerica Seattle	Trip Blank	Trip Blank 0	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45740-1	580-45740-1	14NOCMOCMI004	Solid	9/30/2014 15:00	0-4"	AK101	TestAmerica Seattle	MS/MSD	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml

SDG	Laboratory ID	Sample ID	Matrix	Date/Time Collected	Sample Depth	Analytical Methods	Analysis Laboratory	QC	Location ID	Sampler Initials	Field Preservation	Cooler Name	Turn around Time	Container Type/Volume
580-45740-1	580-45740-2	14NOCMOCMI005	Solid	9/30/2014 15:30	0-4"	AK101	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml
580-45740-1	580-45740-3	14NOCMOCMI006	Solid	9/30/2014 16:00	0-4"	AK101	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Voa Vial 40ml
580-45740-1	580-45740-4	Trip Blank 093014-02	Solid	9/30/2014 15:00	NA	AK101	TestAmerica Seattle	Trip Blank	Trip Blank 0	EB	Methanol	1	15_Days	Soil jar 4oz -
580-45740-1	580-45740-1	14NOCMOCMI004	Solid	9/30/2014 15:00	0-4"	AK102	TestAmerica Seattle	MS/MSD	14NOCMOCI	EB	Methanol	1	15_Days	Plastic Bag
580-45740-1	580-45740-2	14NOCMOCMI005	Solid	9/30/2014 15:30	0-4"	AK102	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Plastic Bag
580-45740-1	580-45740-3	14NOCMOCMI006	Solid	9/30/2014 16:00	0-4"	AK102	TestAmerica Seattle	FD of MOCMI004	14NOCMOCI	EB	Methanol	1	15_Days	Plastic Bag
580-46105-1	580-46105-1	14NCCBMI001	Solid	10/21/2014 14:13	0-4"	8260C	TestAmerica Seattle		CB-1	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-2	14NCCBMI002	Solid	10/21/2014 15:00	0-4"	8260C	TestAmerica Seattle		CB-2	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-3	14NCCBMI003	Solid	10/21/2014 15:15	0-4"	8260C	TestAmerica Seattle	MS/MSD	CB-3	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-4	14NCCBMI004	Solid	10/21/2014 15:30	0-4"	8260C	TestAmerica Seattle		CB-4	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-5	14NCCBMI005	Solid	10/21/2014 16:00	0-4"	8260C	TestAmerica Seattle		CB-5	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-6	14NCCBMI006	Solid	10/21/2014 16:20	0-4"	8260C	TestAmerica Seattle		CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-7	14NCCBMI007	Solid	10/21/2014 16:50	0-4"	8260C	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-8	14NCCBMI008	Solid	10/21/2014 17:15	0-4"	8260C	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-1	14NCCBMI001	Solid	10/21/2014 14:13	0-4"	AK101	TestAmerica Seattle		CB-1	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-2	14NCCBMI002	Solid	10/21/2014 15:00	0-4"	AK101	TestAmerica Seattle		CB-2	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-3	14NCCBMI003	Solid	10/21/2014 15:15	0-4"	AK101	TestAmerica Seattle	MS/MSD	CB-3	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-4	14NCCBMI004	Solid	10/21/2014 15:30	0-4"	AK101	TestAmerica Seattle		CB-4	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-5	14NCCBMI005	Solid	10/21/2014 16:00	0-4"	AK101	TestAmerica Seattle		CB-5	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-6	14NCCBMI006	Solid	10/21/2014 16:20	0-4"	AK101	TestAmerica Seattle		CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-7	14NCCBMI007	Solid	10/21/2014 16:50	0-4"	AK101	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-8	14NCCBMI008	Solid	10/21/2014 17:15	0-4"	AK101	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Methanol	large blue/w	15_Days	Soil jar 8oz
580-46105-1	580-46105-1	14NCCBMI001	Solid	10/21/2014 14:13	0-4"	AK102 & 103	TestAmerica Seattle		CB-1	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-2	14NCCBMI002	Solid	10/21/2014 15:00	0-4"	AK102 & 103	TestAmerica Seattle		CB-2	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-3	14NCCBMI003	Solid	10/21/2014 15:15	0-4"	AK102 & 103	TestAmerica Seattle	MS/MSD	CB-3	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-4	14NCCBMI004	Solid	10/21/2014 15:30	0-4"	AK102 & 103	TestAmerica Seattle		CB-4	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-5	14NCCBMI005	Solid	10/21/2014 16:00	0-4"	AK102 & 103	TestAmerica Seattle		CB-5	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-6	14NCCBMI006	Solid	10/21/2014 16:20	0-4"	AK102 & 103	TestAmerica Seattle		CB-6	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-7	14NCCBMI007	Solid	10/21/2014 16:50	0-4"	AK102 & 103	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Cool	large blue/w	15_Days	Plastic Bag
580-46105-1	580-46105-8	14NCCBMI008	Solid	10/21/2014 17:15	0-4"	AK102 & 103	TestAmerica Seattle	FD of CBMI006	CB-6	EB	Cool	large blue/w	15_Days	Plastic Bag
1143700	1143700001	14NC10SS024	Solid	8/8/14 14:25	3'-4'	8270C SIM	SGS-Anchorage		10SS024	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700002	14NC10SS025	Solid	8/8/14 14:30	3'-4'	8270C SIM	SGS-Anchorage		10SS025	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700003	14NC10SS026	Solid	8/8/14 14:33	3'-4'	8270C SIM	SGS-Anchorage		10SS026	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700004	14NC10SS027	Solid	8/8/14 14:36	3'-4'	8270C SIM	SGS-Anchorage	FD of 10SS026	10SS027	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700005	14NC10SS028	Solid	8/8/14 15:14	3'-4'	8270C SIM	SGS-Anchorage		10SS028	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700006	14NC10SS029	Solid	8/8/14 15:20	3'-4'	8270C SIM	SGS-Anchorage		10SS029	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700007	14NC10SS030	Solid	8/8/14 15:30	3'-4'	8270C SIM	SGS-Anchorage		10SS030	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700008	14NC10SS031	Solid	8/8/14 16:00	3'-4'	8270C SIM	SGS-Anchorage	MS/MSD	10SS031	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700011	14NC10SS032	Solid	8/8/14 16:12	3'-4'	8270C SIM	SGS-Anchorage		10SS032	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700012	14NC10SS033	Solid	8/8/14 15:43	3'-4'	8270C SIM	SGS-Anchorage		10SS033	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700001	14NC10SS024	Solid	8/8/14 14:25	3'-4'	8082	SGS-Anchorage		10SS024	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700002	14NC10SS025	Solid	8/8/14 14:30	3'-4'	8082	SGS-Anchorage		10SS025	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700003	14NC10SS026	Solid	8/8/14 14:33	3'-4'	8082	SGS-Anchorage		10SS026	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700004	14NC10SS027	Solid	8/8/14 14:36	3'-4'	8082	SGS-Anchorage	FD of 10SS026	10SS027	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700005	14NC10SS028	Solid	8/8/14 15:14	3'-4'	8082	SGS-Anchorage		10SS028	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700006	14NC10SS029	Solid	8/8/14 15:20	3'-4'	8082	SGS-Anchorage		10SS029	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700007	14NC10SS030	Solid	8/8/14 15:30	3'-4'	8082	SGS-Anchorage		10SS030	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700008	14NC10SS031	Solid	8/8/14 16:00	3'-4'	8082	SGS-Anchorage	MS/MSD	10SS031	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700011	14NC10SS032	Solid	8/8/14 16:12	3'-4'	8082	SGS-Anchorage		10SS032	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143700	1143700012	14NC10SS033	Solid	8/8/14 15:43	3'-4'	8082	SGS-Anchorage		10SS033	EB	Cool	large blue/w	1-day	Soil jar 8oz
1143921	1143921001	14NC10SS034	Solid	8/18/14 16:34	4-6'	8260B	SGS-Anchorage		10SS034	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921002	14NC10SS035	Solid	8/18/14 16:42	4-6'	8260B	SGS-Anchorage		10SS035	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921003	14NC10SS036	Solid	8/18/14 16:44	4-6'	8260B	SGS-Anchorage	FD of 10SS035	10SS036	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921004	14NC10SS037	Solid	8/18/14 16:45	4-6'	8260B	SGS-Anchorage		10SS037	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921005	14NC10SS038	Solid	8/18/14 16:55	4-6'	8260B	SGS-Anchorage		10SS038	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921006	14NC10SS039	Solid	8/18/14 16:58	4-6'	8260B	SGS-Anchorage	MS/MSD	10SS039	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921009	14NC10SS040	Solid	8/18/14 16:30	4-6'	8260B	SGS-Anchorage		10SS040	EB	Methanol	large blue/w	1-day	Soil jar 8oz
1143921	1143921010	TB081814-1	Solid	8/18/14 16:30	NA	8260B	SGS-Anchorage	Trip Blank	10SS041	EB	Methanol	large blue/w	1-day	Soil jar 8oz

ATTACHMENT 2

ADEC Laboratory Data Review Checklists

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/8/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 1143700

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by SGS-anchorage

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

   The temperature blank was recorded at 1.6 degrees C, slightly below the 2.0 degree C limit. NO temperature was reported for the cooler temperature. Soil samples were submitted for PAH and PCB analysis only and the slightly depressed temperature had no effect on sample results.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The surrogate for several PAH samples failed to meet recovery criteria due to initial dilution of samples. The PAH MS/MSD on a project sample failed to meet acceptance criteria for multiple analytes, some with no recovery, the case narrative noted matrix interference. The PAH parent sample and MS/MSD were analyzed at a 5x dilution. Non-project MS/MSD in same PAH batch also had QC issues, the non-project MS/MSD will not be further discussed.
The PCB MSD recovery exceeded the upper control limit.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required, the LCS and MB were in control.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with some qualifications for out of control QC.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

The MB was ND

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for PCH and PAH analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

□Yes x□ No □NA (Please explain.) Comments:

The PAH MS/MSDs on sample 14NC10SS031 failed to meet acceptance criteria on several analytes, the case narrative noted matrix interference. The PAH parent sample and MS/MSD were analyzed at a 5x dilution, several PAH analytes had no reported recovery at all. The PCB MSD had recoveries exceed the upper control limit. PCB MS/MSD recoveries were 125% of spike concentration or higher, the parent sample result was ND for all PCBs. All PCB sample results were ND except one that was reported with an Aroclor 1260 a concentration less than the LOQ. The high PCB recoveries in the MS/MSD did not affect sample results and no flags were assigned to the PCB results.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes □x No □NA (Please explain.) Comments:

The 8270 MS/MSD failed to meet RPD for fluorene. The recoveries exceeded the upper control limit and had an RPD of 35.5%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample 14NC10SS031 is affected as it was the CoC designated MS/MSD.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

MS/MSD recoveries that were below acceptance criteria are flagged QL, those with recoveries greater than the upper acceptance limit are flagged QH. Fluorene is flagged QH due to the high recoveries event though the MS/MSD failed to meet RPD limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐x No ☐NA (Please explain.) Comments:

Some PAH sample surrogates failed to meet recovery limits. Some samples were diluted prior to analysis due to dark colored extracts before initial analysis

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Sample results that were ND with high surrogate recoveries are not flagged. Samples with high surrogate recoveries and reportable PAH concentrations are flagged QH. PAH sample results with low surrogate recoveries are flagged QL, even if non-detect.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

While there were several surrogate recovery failures associated with sample dilutions, the results are still usable to demonstrate that PAH concentrations at the site are well below site-specific cleanup levels for PAHs.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for PAH and PCB analyses only, which do not require trip blanks.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

□Yes □ No x□NA (Please explain.) Comments:

iii. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blanks are required for the specified analyses.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS026 and -10SS027, were submitted with this SDG.

ii. Submitted blind to lab?

x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/9/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 1143921

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were shipped to and analyzed by SGS-Anchorage.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

   The cooler temperature was recorded at 0.1 degrees C. Samples were soil samples in methanol so no freezing occurred and analysis proceeded without incident or need for qualification due to temperature upon receipt.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The sample receipt tare weight for sample 14NC10SS039 was not present upon receipt. The sample results page for VOCs noted a soil weight and volume. It is unclear how the tare weight was determined but it is believed to be true and accurate based on documentation review.
It is also noted that the field surrogate tri-fluorotoluene was present in the methanol. SGS uses 4-bromofluorobenzene as the field surrogate for AK101. The samples were analyzed for VOCs only, which does not require a field surrogate.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260-VOC MS/MSD on project sample 14NC10SS039 failed recovery high for hexachlorobutadiene, it was not detected in the sample. Chloroethane also failed to meet RPD (precision) in the MS/MSD. The sample was not detected in the parent sample.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required, the LCS was in control.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with some qualifications for out of control QC in the MS/MSD as noted above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes x☐ No ☐NA (Please explain.) Comments:

1,2,3-trichlroopropane, methylene chloride, some bromomethane, bromodichloromethane, hexachlorobutadiene, chlorodibromoethane, carbon tetrachloride, trichloroethene, tetrchloroethene, vinyl chloride results exceeded the cleanup levels at NE Cape. Analytes with results, even ND results, were bolded on the sample results table to indicate the result is greater than the ADEC cleanup level.

e. Data quality or usability affected?

Comments:

1,2,3 trichloropropane and dibromoethane (EDB) were noted in the QAPP as having empirical reporting limits greater than the cleanup levels. The reporting limits presented by SGS assume 50 grams of sample (dry weight) per 25 mL of methanol in order to achieve their stated reporting limits. The primary laboratory we cited in the QAPP assumes a 1:1 ratio of soil (dry weight) to meet empirical reporting limits. The error was assuming SGS had similar reporting limits, which in fact they do not, hence the ND results at the LOD exceed the cleanup levels for the above noted analytes. Sample documentation and holding times were met.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?
Comments:

NA, The MB was ND.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for VOC analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260-VOC MS/MSD on project sample 14NC10SS039 failed recovery high for hexachlorobutadiene, it was not detected in the sample

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes x□ No □NA (Please explain.) Comments:

Chloroethane failed to meet RPD (precision) in the MS/MSD. The sample was not detected in the parent sample

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only the parent sample of the MS/MSD (14NC10SS039)was potentially affected by the out of control analytes as the LCS was in control.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

□Yes □ No x□NA (Please explain.) Comments:

No flags were assigned as the analytes out of control were non-detect and would have been detected if present so no flags were assigned to ND results.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

□Yes □ No x□NA (Please explain.) Comments:

All surrogates met recovery criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x Yes No NA (Please explain.) Comments:

Only one cooler was submitted with this work order.

iii. All results less than PQL?
Yes x No NA (Please explain.) Comments:

Methylene chloride was detected in the trip blank at 3,330 ug/Kg, which is over 200 times the ADEC cleanup level. Laboratory contamination is highly suspect. Methylene chloride was not detected in any project samples so no flagging was necessary.

iv. If above PQL, what samples are affected?
Comments:

No samples are affected. However, all methylene chloride results were non-detect and all sample reporting limits greatly exceeded the cleanup level for methylene chloride.

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to trip blank analyses and reporting.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x Yes No NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS035 and -10SS036, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All sample results were ND at the LOQ so no precision evaluation could be made.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>
   a. Defined and appropriate?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date:

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44007-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were shipped to and analyzed by TestAmerica-Tacoma, a CS and DoD approved lab.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No X☐NA (Please explain.) Comments:

      All samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      X☐Yes ☐No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      Three coolers were shipped in this SDG and all were within the range limits for temperature.

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
X☐Yes ☐ No ☐NA (Please explain.) Comments:

All sample containers were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
X☐Yes ☐ No ☐NA (Please explain.) Comments:

Two pages of the CoC did not have sample times on them. Sample times were determined based on the sample labels on the containers.

e. Data quality or usability affected? (Please explain.)
Comments:

While the CoC was not properly completed to include sample collection times, the results are still usable for project purposes, which is mapping arsenic concentrations at Site 21 outside of the previously excavated areas. Holding times were not an issue as there is a 6-month holding time for arsenic.

4. Case Narrative
a. Present and understandable?
X☐Yes ☐No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
X☐Yes ☐No ☐NA (Please explain.) Comments:

The 6020A arsenic MS/MSD failed to meet RPD criteria in 2 extraction batches. The percent moisture RPD also failed to meet criteria.

c. Were all corrective actions documented?
☐Yes ☐X No ☐NA (Please explain.) Comments:

No corrective actions were required. The LCS/LCSDs in the batches were in control as well was the post-digestion spike so no corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification with respect to the case narrative. The RPDs on the MS/MSD were calculated per the method, however, when percent recoveries are used to calculate the RPD the results are within control limits.

Samples Results

e. Correct analyses performed/reported as requested on COC?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

f. All applicable holding times met?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

g. All soils reported on a dry weight basis?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

h. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

i. Data quality or usability affected?

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

5. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

X☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

☐Yes ☐X No ☐NA (Please explain.) Comments:

All method blanks were non-detect.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

X Yes No NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

X Yes No NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes X No NA (Please explain.) Comments:

Two extraction batches whose MS/MSDs for arsenic analyses were reported to have RPDs exceeding their control limits in the case narrative. MS/MSDs were performed on samples 14NC21SS016-3 (580-44007-52) and 14NC21SS035-3 (580-44007-115), which were flagged as being outside of control limits. When RPD is calculated using the raw recovered spike concentrations the RPD is exceeded. When percent recoveries are evaluated for RPD, both MS/MSD sets meet RPD requirements. The root cause for the discrepancy is that per the EPA method, the raw (mg/kg) recoveries are evaluated and not the percent recoveries. The source of the error is having 2 differing weights of sample prior to being spiked. When percent recoveries are evaluated for RPD precision, sample 14NC21016-3 had 110 and 117% percent spike recoveries with an RPD of 6.2% The MS/MSD recoveries for 14NC21SS035-3 were reported at 110 and 112% recoveries and an RPD of 5.5%. Because the RPD criteria is met when percent recoveries are used to calculate RPD precision, no flags were assigned to the parent sample arsenic results for the MS/MSDs discussed in this section. Also, the RPPD criteria was exceeded for percent moisture on sample 14NC21SS001-1 (580-44007-1). The parent arsenic result is flagged QN for quality issue with no directional bias.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Only sample 14NC21SS001-1 is flagged QN for percent moisture RPD exceedance. The arsenic result is flagged.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Noted above

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

While the RPD exceedance in the percent moisture indicates potential heterogeneity in the sample matrix, the results are usable for project purposes, which is delineating the arsenic concentrations outside of the current excavation at Site 21.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were analyzed for arsenic only, which does not require a surrogate in the method.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐x NA (Please explain.) Comments:

No surrogate added.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Data quality is not affected as no surrogates were used in the analyses.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Samples were submitted for arsenic analyses only and a trip blank is not required.

□Yes □ No □x NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
□Yes □ No x□NA (Please explain.) Comments:

No trip blank required.

iii. All results less than PQL?
□Yes □ No □NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

Data is not affected as a trip blank is not required for arsenic samples.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

X□Yes □ No □NA (Please explain.) Comments: Eleven sets of field duplicates were submitted with this SDG: 14NC21SS005-3 and -SS005-4, -SS008-3 and –SS008-4, -SS010-3 and –SS010-4, SS015-1 and –SS015-4, -SS017-2 and –SS017-4, -SS019-2 and –SS019-4, -SS025-2 and –SS025-4,-SS029-1 and –SS029-4, -SS033-2 and –SS033-4, -SS035-2 and –SS035-4, -SS036-3 and –SS036-4.

ii. Submitted blind to lab?
X□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes X□ No□NA (Please explain.) Comments:

Eleven sets of field duplicates were submitted with this SDG, only sample 14NC21SS025-2 and –SS025-4 failed to meet RPD criteria and both results are flagged QN for quality issue with no directional bias due to the excessive RPD duplicate value.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While the 50% RPD criteria was exceeded at 56.8% in one duplicate set, the results are still usable for project purposes of delineating arsenic concentrations and identifying locations with arsenic concentrations above project cleanup levels. Both results were well less than the arsenic cleanup level for the site.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected using disposable sampling equipment.

i. All results less than PQL?

□Yes □ No □NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

NA

6. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>
   a. Defined and appropriate?
   X□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/15/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-440161-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

   The CoC did not include the sample dates and times. Samples were logged in per sample labels.

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The CoC did not include the sample dates and times. Samples were logged in per sample labels.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results can be used for project purposes without qualification. The lack the CoC time and the sample label time did not affect analyses or holding times. Samples were extracted well within holding times.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The PAH method blank has reportable concentrations of 2-methylnaphthalene, fluorene and phenanthrene. The PAH LCS had low recovery of 1-methylnaphthalene and naphthalene. The RRO surrogate on sample 14NC28WCSD01 exceeded the upper control limit and the DRO result is flagged QH for quality issue with potential high bias. The RRO method blank had reportable concentrations. The 6020 metals MS/MSD exceeded the upper control limits for barium and vanadium. The mercury MS/MSD on the single project sample failed to meet lower recovery limits. The GRO analysis had low field surrogate recovery in the single submitted sample.

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The PAH sample could not be re-extracted due to insufficient volume per the case narrative.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes, which is waste characterization for disposal.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      ☐x Yes ☐ No ☐NA (Please explain.) Comments:

The PAH method blank has reportable concentrations of 2-methylnaphthalene, fluorene and phenanthrene at less than half the LOQ.

      iii. If above PQL, what samples are affected?

All sample results were either ND or greater than 10 times the method blank concentration so no flags were assigned.

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
□Yes □x No □NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
x□Yes □ No □NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes x□ No □NA (Please explain.) Comments:

. The PAH LCS had low recovery of 1-methylnaphthalene and naphthalene. The 6020 metals MS/MSD exceeded the upper control limits for barium and vanadium. The mercury MS/MSD on the single project sample failed to meet lower recovery limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
□Yes x□ No □NA (Please explain.) Comments:

The, the lab duplicate on the same sample exceeded RPD limit on sample 14NC28WCSD01

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

14NC28WCSD01

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The mercury result for sample 14NC28WCSD01 is flagged QL, barium and vanadium results are flagged QH.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes, which is waste characterization for disposal, even with the flags and failed QC.

c. Surrogates – Organics Only

i. xAre surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO analysis had low field surrogate recovery in the single submitted sample, likely due to low percent moisture. The RRO surrogate on sample 14NC28WCSD01 exceeded the upper control limit

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO result is flagged QL and the RRO result is flagged QH for surrogate recoveries outside of control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualifications. Results were used for waste characterization and disposal.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

Not applicable

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to trip blank analysis and reporting.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No field duplicate was submitted with this sample, the overall 10% project frequency was met.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Sample was collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

Not applicable

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/12/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44658-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No X☐NA (Please explain.) Comments:

      Samples were received and analyzed by the certified on-site mobile lab.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?

      X☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were hand delivered directly from the field to the mobile lab. The cooler temp was 4.1 degrees C and the temp blank was 0.4 degrees C.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

X Yes No NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

X Yes No NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes X No NA (Please explain.) Comments:

No discrepancies were observed or reported.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes (pre-stockpile conditions) without qualification with respect to sample documentation and preservation.

4. Case Narrative

a. Present and understandable?

x Yes No NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain.) Comments:

The DRO method blank had reportable concentrations at less than ½ the LOQ.

c. Were all corrective actions documented?

Yes No X NA (Please explain.) Comments:

No corrective action was required as the MB result was less than ½ the LOQ.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes, with B qualification for DRO sample results less than 10 times the reported MB concentration. The MB DRO concentration was 9.42 mg/kg. Most results in this SDG were B flagged.

6. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

7. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

The MB DRO concentration was 9.42 mg/kg. Most results in this SDG were B flagged.

      iii. If above PQL, what samples are affected?
      Comments:

The DRO method blank result was less than half the LOQ, however, most pre-stockpile sample results were less than 10 times the MB result so 18 of the 20 samples in this SDG had a B flag assigned to the DRO result. All field sample results were greater than the MB concentration.

v. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Project sample DRO results are B flagged to indicate blank contamination with potential high bias.

vi. Data quality or usability affected? (Please explain.)
Comments:

While the MB contamination lessens the degree of accuracy, results can still be used for project purposes, which is to determine pre-stockpile concentrations of native soil before a liner is placed on the ground with excavated soil to be placed on top of the liner.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Not applicable, all QC were within limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All QC were within limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to QC analysis and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All sample surrogates were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No ☐x NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

NA

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates were submitted with this SDG PSP010 and PSP082, and PSP020 and PSP 083

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

xR_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable without qualification with respect to field duplicate analyses and reporting.

f. Decontamination or Equipment Blank (If not used explain why).

Samples were collected with disposable sampling equipment.

□Yes □ No x□NA (Please explain.) Comments:

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, samples were collected with disposable sampling equipment.

8. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/12/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44660-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site certified mobile lab.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐ No ☐x NA (Please explain.) Comments:

No discrepancies were noted.

f. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable without qualification with respect to sample temperatures and documentation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had a reportable concentration at less than ½ the LOQ.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The MB concentration was less than half the LOQ.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes (pre-stockpile sampling) with qualification for the MB contamination.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to correct analyses, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      The DRO method blank had a reportable concentration at 9.4 mg/Kg, which is less than half the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

      Thirteen of the twenty samples submitted in this SDG were B flagged.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐x Yes ☐ No ☐NA (Please explain.) Comments:

      Thirteen of the twenty samples submitted in this SDG were B flagged.

v. Data quality or usability affected? (Please explain.)
Comments:

While the reportable DRO in the MB are not ideal, the results are still usable for project purposes, which is pre-stockpile sampling with above noted qualifications.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
X☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Not applicable.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All spiked QC met accuracy and RPD limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to QC accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples met surrogate recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

No trip blank was submitted nor required. Samples were submitted for DRO/RRO analyses only.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates were submitted, PSP030 and PSP084, and PSP040 and PSP085

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates were submitted. Samples PSP040 and PSP085 (field duplicate pairs) failed to meet the 50% RPD limit for RRO and both are flagged QN for quality issue with no directional bias.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While the field duplicate pair failed to meet the RPD limit, the results are still usable for determining the concentrations of soil prior to liner being placed on the ground for stockpiling excavated soil at the MOC.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐x NA (Please explain.) Comments:

All samples were collected using disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/12/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44662-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site certified mobile lab.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted. All samples were received within limits and in good condition.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt and sample conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had reportable concentrations greater than ½ the LOQ. A variance was granted by the USACE project chemist for reporting the DRO results.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. A variance was granted and the DRO results were reported with a note in the case narrative.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with qualification for MB contamination.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      ☐x Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had a reportable concentration at 10.4 mg/Kg, which is greater than on-half the LOQ

      iii. If above PQL, what samples are affected?

Eighteen of the twenty samples submitted in this SDG had concentrations less than ten times the method blank concentration and are B flagged to indicate blank contamination with potential high bias.

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Affected samples are B flagged to indicate blank contamination with potential high bias.

v. Data quality or usability affected? (Please explain.)
Comments:

While the contaminated method blank is not ideal for reporting, sample results are still usable for project purposes, which is pre-stockpile sampling.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
☐Yes ☐X No ☐NA (Please explain.) Comments:

The RRO matrix spike on sample PSP041 (580-44662-1), failed to meet the lower recovery limit, possibly due to a heterogeneous matrix.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Only sample PSP041 is flagged, the LCS/LCSD, which are the main measurement of batch precision and accuracy, were within limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The RRO result for sample PSP041 is flagged QL for quality issue with potential low bias.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

While the RRO MS failed to meet the lower recovery limit, the results are still usable for project purposes, which is pre-stockpile sampling. Non-homogeniety of sampled tundra surface material is suspected. The chromatographic pattern does not resemble a petroleum (POL) pattern and is more consistent with naturally occurring material (biogenics).

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogate recoveries were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

□Yes □x No □NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only, which does not require a trip blank.

iii. All results less than PQL?
□Yes □ No x□NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

Not applicable

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are unaffected due to the lack of a trip blank, it was not required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

Two sets of field duplicates were submitted with this SDG, PSP050 and PSP086, and PSP060 and PSP087.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

Sample results are usable for project purposes without qualification with respect to field duplicates. All field duplicate results met RPD criteria.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐x No ☐NA (Please explain.) Comments:

All samples were collected with disposable field sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

Not applicable

iii. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sampling equipment, all samples were collected with disposable sampling equipment.

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/13/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44663-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TA on-site certified mobile laboratory.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      ☐x Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were identified or documented.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample handling and documentation.

4. Case Narrative
a. Present and understandable?
☐xYes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO method blank had reportable concentrations at less than ½ the LOQ.

c. Were all corrective actions documented?
☐Yes ☐ No ☐x NA (Please explain.) Comments:

No corrective actions were required other than flagging results.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with qualification for method blank contamination

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All axpplicable holding times met?
☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐xYes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. xOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      The DRO/RRO method blank had reportable DRO at 9.3 mg/kg and RRO at 13.4 mg/kg.

      iii. If above PQL, what samples are affected?
      Comments:

      Every sample in this SDG had concentrations less than ten times the method blank concentration for either DRO,RRO or both and their results are B flagged to indicate blank contamination with potential high bias

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

While the blank contamination is not ideal, the results are still usable to determine pre-stockpile concentrations before liner and excavated soil were placed on the sample locations.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Not applicable, all spiked QC were within control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were required for spiked QC.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to batch QC meeting acceptance criteria.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All sample surrogate recoveries were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require trip blanks.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Samples were submitted for DRO/RRO analyses only, which do not require trip blanks

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Three sets of field duplicates were submitted with this SDG; PSP070 and PSP088, PSP075 and PSP089 and PSP080 and PSP090.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate analyses and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected using disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/2/04

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44665-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and conditions upon receipt.

4. Case Narrative
a. Prexsent and understandable?
☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The RRO MSD had a spike recovery exceed the upper control limit.

c. Were all corrective actions documented?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No corrective actions were required. The LCS/LCD was within control limits.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with qualification for the RRO MSD (sample PSP081).

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
□xYes □ No □NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x□Yes □ No □NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x□Yes □ No □NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x□Yes □ No □NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x□Yes □ No □NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      □Yes □ No x□NA (Please explain.) Comments:

      No flags were assigned, MB was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐ xNo ☐NA (Please explain.) Comments:

The RRO MSD recovery exceeded the upper control limit for RRO on sample PSP081.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample PSP081 if affected

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The RRO result for PSP081 is flagged QH for quality issue with potential high bias.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes with the above noted qualification for the high RRO recovery in the MSD.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

Samples PSP040 and PSP085 failed to meet RPD criteria for RRO.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While the field duplicate precision is not within project specified limits, the results are still usable for project purposes, which is to determine the concentration of surface soil before a liner and contaminated soil are placed on it.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/13/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44676-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □x Yes □No □NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No x□NA (Please explain.) Comments:

      Samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x□Yes □ No □NA (Please explain.) Comments:

      b. Correct analyses requested?
      x□Yes □ No □NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes □x No □NA (Please explain.) Comments:

      One of the three coolers submitted with this SDG had a cooler temperature of 6.3 degrees C and a temperature blank measured at 1.6 degrees C. No flags were assigned based on the slightly elevated cooler temperature as the temperature blank was within DoD acceptance range.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition. The trip blank was written in on both CoC pages, only one set of 6 trip blanks was submitted with this SDG.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted nor documented.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, preservation and sample conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

BTEX recovered high in the 8260 LCS/LCSD. Pryene was detected in the 8270-SIM method blank. The 8270-SIM LCS had low recoveries of several PAH analytes in the LCS. The PAH LCSD had high surrogate recovery. The DRO/RRO MS/MSD had low recoveries for DRO.

c. Were all corrective actions documented?

☐xYes ☐ No ☐NA (Please explain.) Comments:

A variance was granted for this SDG for high BTEX recovery in the LCS. The 8270 samples and QC were re-extracted outside of hold but without acceptable QC so the original in-hold sample results were accepted. The MS/MSD met accuracy and precision criteria as did the LCS so over-concentration is likely the root cause of the low LCSD recoveries.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

While the high LCS recoveries and contaminated method blanks decrease the degree of accuracy on some results. All results are still usable for project data quality objectives, which in this case is to monitor for potential detrimental effects of excavation at the MOC on the surface waters at the head of Site 28.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

All samples were surface water samples.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes without qualification with respect to analyses, holding times and reporting limits.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐No ☐NA (Please explain.) Comments:

The PAH method blank had pyrene detected at a concentration of 0.0136 ug/L, all samples in this SDG were non-detect for pyrene so no flags were assigned. The GRO method blank had a reportable concentration of GRO at 0.0192 mg/L. All GRO sample results in this SDG were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias.

iii. If above PQL, what samples are affected?

Comments:

All GRO sample results in this SDG were less than ten times the blank concentration and all were B flagged to indicate blank contamination with potential high bias

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

GRO results are B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

Pyrene in the 8270-SIM method blank had no effect on sample results. The GRO results are still usable to monitor surface water downgradient of the MOC for potential impact from excavation activities at the MOC.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)

☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐x NA (Please explain.) Comments:

No metals were analyzed in this SDG.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The 8260 BTEX LCS/LCSD had high recoveries for all BTEX compounds. The 8270 SIM LCSD had low recoveries for several analytes and surrogates, over-concentration of the extract is suspected. The DRO MS/MSD on sample 14NCMOCSW03 failed to meet the lower recovery limit.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes x□ No □NA (Please explain.) Comments:

Due to the low LCSD recoveries is the PAH LCSD, many analytes failed to meet RPD limits. Those analytes are already flagged QL for low LCS recoveries. Samples with positive BTEX results have been flagged QH for quality issues with potential high bias. Only toluene was detected in any of the samples.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

All positive PAH results are flagged QL for quality issues with potential low bias. Toluene was flagged QH in 2 samples with positive toluene results. The DRO result for sample 14NCMOCSW03 was flagged QL for quality issue with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x□Yes □ No □NA (Please explain.) Comments:

Noted above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

While QC criteria was not met on the above noted analytes, the results are still usable to monitor surface water for detrimental effects from excavation activities at the MOC.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

□Yes x□ No□NA (Please explain.) Comments:

The PAH LCSD failed to meet recovery limits for surrogates. All project samples met recovery limits. Over concentration of the LCSD extract is suspected based on acceptable recoveries of all other QC with the LCSD recoveries being very low while the LCS met recovery limits.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

□Yes □x No □NA (Please explain.) Comments:

No flags were assigned to project samples based on the low surrogate recovery in the LCSD.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

While failure of the LCSD surrogate does raise question on the sample results, all samples met surrogate recovery criteria so sample results can be used for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

GRO was detected in the trip blank at a concentration comparable to sample results and the GRO method blank. Lab contamination is suspected based on positive results in the method blank, trip blank and samples at similar concentrations. All GRO results are B flagged already based on the GRO method blank contamination.

v. Data quality or usability affected? (Please explain.)

Comments:

While detection of GRO in the trip blank at a concentration less than ½ the LOQ, sample results are still usable for project purposes, which is to monitor surface water for detrimental effects from excavation activities at the MOC.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates were submitted with this SDG; 14MOCSW01 and –MOCSW04.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate analyses and reporting.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes x☐ No ☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/19/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44676-2

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No X☐NA (Please explain.) Comments:

      All samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      One of the three coolers submitted with this SDG had a cooler temperature of 6.3 degrees C and a temperature blank measured at 1.6 degrees C. No flags were assigned based on the slightly elevated cooler temperature as the temperature blank was within DoD acceptance range

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

□xYes □ No □NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x□Yes □ No □NA (Please explain.) Comments:

All samples were received in good condition. The trip blank was written in on both CoC pages, only one set of 6 trip blanks was submitted with this SDG.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

□Yes x□ No □NA (Please explain.) Comments:

No discrepancies were noted or documented.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, preservation and sample conditions

4. Case Narrative

a. Present and understandable?

x□Yes □ No □NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x□Yes □ No □NA (Please explain.) Comments:

Sample 14NCBOOTWASH1 had high VOC surrogate recovery and low SVOC and PCB surrogate recoveries. The VOC method blank had several analytes detected. The VOC CCV had high acetone recovery. The VOC analysis was not calibrated for vinyl chloride. High VOC MS/MSD recoveries. The 8270 LCS/LCSD failed RPD criteria for 2-methylnaphthylene. The 8270 CCV exceeded the upper control limit for hexachlorobutadiene. The 8270 MB detected 2 phthalates. The 8270 MS/MSD had low recoveries for 3 and 4 methylphenol, and pyridine. The metals MB had barium detected. Flashpoint was analyzed on an acidified portion of the sample.

c. Were all corrective actions documented?

x□Yes □ No □NA (Please explain.) Comments:

Some samples were re-analyzed and 2 variances were granted for reporting VOCs detected in the method blanks.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

While there were numerous QC issues associated with the analyses, the results are still usable for project purposes, which is waste characterization and disposal.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes with respect to sample analyses, holding times and reporting limits.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

☐Yes ☐x No ☐NA (Please explain.) Comments:

Several analytes were detected in the VOC MBs, 1,2,4 trimethylbenzene was reported in MB 580-165423 at a concentration greater than the LOQ. The SVOC method blank had detectable concentrations of di-n-butyltphthalate and bis (2-ethylhexyl) phthalate. Sample results were non-detect for these analytes so no flags were assigned.

iii. If above PQL, what samples are affected?

Comments:

Only sample 14NCBOOTWASH1 was affected by the method blank contamination.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x Yes No NA (Please explain.) Comments:

Sample 14NCBOOTWASH1 had results for 1,2,4 trimethylbenzene, p-isopropyltoluene and sec-butylbenzene B flagged for blank contamination. The sample concentrations were less than 10 times the result reported in the method blank.

v. Data quality or usability affected? (Please explain.)

Comments:

While blank contamination is not a good indicator of quality control, the results can still be used for project purposes, which is waste characterization and disposal of IDW.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x Yes No NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x Yes No NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes x No NA (Please explain.) Comments:

The 8260 MS/ MSD had the recovery of 1,2 dichloroethane exceed the upper control limit. The sample was non-detect for 1,2 dichloroethane so no flags were assigned. The SVOC LCS/LCSD had high recoveries for several analytes, none of which were detected in the single sample analyzed in the batch so no flags were assigned based on the high LCS/LCSD recoveries.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes x No NA (Please explain.) Comments:

The SVOC LCS/LCSD failed RPD limits for 2-methylnaphthylene and 2-methylphenol, the sample results for 14NCASH1 were flagged QN for quality issue with no directional bias.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Noted above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

Analytes affected by low recoveries are flagged QL and those affected by out of precision criteria are flagged QN.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

While there were several quality issues with the waste matrix, the results are still usable for project purposes, which are waste characterization and disposal.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
X Yes No NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
Yes X No NA (Please explain.) Comments:

The VOC surrogate1,2-di chloroethane-d4 exceeded the upper control limit for sample 14NCBOOTWASH1 upon re-analysis at a 5x dilution. The PCB surrgoates tCMX and DCB also had low recoveries in sample 14NC BOOTWASH1. The SVOC surrogate 2-fluorobiphenyl had low recovery in sample 14NCASH1 in the matrix spike (MS) sample, the parent sample surrogate recoveries met criteria so no flags were assigned.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
Yes X No NA (Please explain.) Comments:

The VOC results are not flagged as none of the reanalyzed target analytes is associated with this surrogate so no flags were assigned based on the high surrogate recovery during reanalysis.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

While the low surrogate recoveries do affect the overall quality of the results, the results are still usable for project purposes, which are waste characterization and disposal.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

While the positive trip blank results were less than the PQL, it should be noted that the instrument method blank also had reported positive results lending to the assumption that the laboratory is the source of contamination.

v. Data quality or usability affected? (Please explain.)

Comments:

The positive trip blank results did affect the overall quality of data, however, the results can still be used for waste characterization and disposal.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes x☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

□Yes □ No x□NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes □ No x□NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The samples were waste samples and all results indicate that the IDW is non-hazardous.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

NA

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/20/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44683-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory. The mobile laboratory is an ADEC and DoD accredited laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or documented.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample handling and documentation.

4. Case Narrative

a. Prexsent and understandable?

☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO MS/MSD failed to meet acceptance critieria. The case narrative noted that the parent sample concentration was greater than 4 times the spike concentration so no qualification is necessary. The DRO method blank had reported positive results for DRO at a concentration of less than half the LOQ.

c. Were all corrective actions documented?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and QC issues. Some project sample results were B qualified for method blank contamination.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample preservation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had a reported DRO concentration of 6.4 mg/Kg, which is less than half the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

Project sample results with DRO concentrations less than 10 times the method blank concentration are B flagged to indicate blank contamination.

v. Data quality or usability affected? (Please explain.)
Comments:

While the blank contamination does affect the overall quality of the results, the results are still usable for project purposes of determining if site cleanup goals have been achieved. The cleanup levels are greater than 100 times the reported method blank concentration of 6.4 mg/Kg.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
X Yes No NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes No X NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes x No NA (Please explain.) Comments:

The DRO/RRO batch MS/MSD on sample 14NCMOCSS001 had spike recoveries below the lower acceptance limit. The DRO parent sample concentration was greater than 4 times the spike concentration so no flags were assigned. The RRO parent sample concentration was within 4 times the spike concentration so the RRO result is flagged QL for quality issue with potential low bias.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x Yes No NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Only sample 14NCMOCSS001 was affected and its RRO result is flagged QL.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes (assessing if cleanup goals have been met) with above noted qualification of the MS/MSD RRO parent sample for low spike recoveries.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogate recoveries met acceptance criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require trip blanks.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

□Yes □ No □xNA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ Nox □NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

NA

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

Two sets of field duplicates were submitted with this SDG, 14NCMOCCSS010 and –SS014 and –CSS002 and –CSS015.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Two sets of field duplicates were submitted for analyses and both met precision criteria, thus duplicate results are usable for project purposes without qualification with respect to field duplicate collection, analyses and reporting.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 580-44684-1

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 11/20/14

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were documented or noted.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample handing and documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐xYes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO method blank had reportable concentrations of both DRO and RRO. The DRO/RRO MS/MSD failed to meet recovery criteria; the parent sample concentration was greater than 4 times the spike concentrations

c. Were all corrective actions documented?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No need for corrective actions.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with noted qualifications for sample results less than 10 times the MB concentrations.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO and RRO were both detected in the method blank at concentrations less than ½ the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

All sample results were at least 10 times greater than the reported MB concentrations so no flags were necessary.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

All sample results were greater than 10 times the blank concentrations so no flags were assigned.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO/RRO MS/MSD failed to meet recovery and precision criteria. The parent sample concentrations were greater than 4 times the spike concentration so no flags were assigned.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO/RRO MS/MSD failed to meet precision criteria. The parent sample concentration was greater than 4 times the spike concentration.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No samples were affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes x☐ No ☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spike recovery accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x Yes No NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x Yes No NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
Yes No x NA (Please explain.) Comments:

All surrogates met recovery criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample analyses and recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
Yes No x NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
Yes No x NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ No □xNA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates,14NCMOCSPO04 and –MOCSP005 were submitted with this SDG.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes x□ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

While the field duplicate pair did not meet precision criteria, both sets of results indicate that the stockpiled soil is well above site-specific cleanup criteria.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/20/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44685-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No X☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile lab.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      The cooler temperature was reported at 6.6 degrees C and the temperature blank was noted at 3.6 degrees C. Samples were submitted to the lab approximately 1 hour after collection so no qualification is necessary.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted nor documented.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions and documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO method blank had reportable DRO and RRO concentrations at less than ½ the LOQ.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
a. Method Blank
i. One method blank reported per matrix, analysis and 20 samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO was reported in the MB at 9.3 mg/Kg and RRO was reported in the MB at 13.4 mg/Kg, both of which are less than ½ the LOQ.

iii. If above PQL, what samples are affected?
Comments:

No samples were affected/, all sample results were greater than 10 times the M B concentrations.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were not affected

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Not applicable

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All spiked QC method method acceptance criteria.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spike sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

All surrogate recoveries met acceptance criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect so surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?
Comments:

N

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

The overall 10% project wide frequency was met, only 2 primary samples were submitted with this SDG.

ii. Submitted blind to lab?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The overall 10% field duplicate collection frequency was met for the project.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable field sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/21/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44697-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted or documented.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample handling, preservation and condition upon receipt.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The RRO surrogate recoveries for samples 14NC10SS002, 14NC10SS005, 14NC10SS007 and the MSD exceeded the upper control limit, the DRO surrogate met control limits. The matrix spike performed on sample 14NC32SS001 had low DRO recovery, the surrogates and RRO recovery met acceptance limits. The matrix spike performed on sample 14NC10SS005 had both DRO and RRO spike recoveries outside of acceptance limits. The parent sample concentration was greater than four times the spike concentration so no flags were assigned.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with some qualifications for out of control parameters.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO method blank had a reported concentration of 9.36 mg/Kg, which is less than half the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

All project sample results were greater than 10 times the blank concentration so no flags were assigned.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
□Yes □x No □NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes □x No □NA (Please explain.) Comments:

The matrix spike performed on sample 14NC32SS001 had low DRO recovery, the surrogates and RRO recovery met acceptance limits. The parent DRO result is flagged QL for quality issue with potential low bias. The matrix spike performed on sample 14NC10SS005 had both DRO and RRO spike recoveries outside of acceptance limits. The parent sample concentration was greater than four times the spike concentration so no flags were assigned.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Only sample 14NC32SS001 had its DRO result flagged QL for out of control matrix spike with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualification for the failed DRO matrix spike.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x Yes No NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
Yes x No NA (Please explain.) Comments:

The RRO surrogate recoveries for samples 14NC10SS002, 14NC10SS005, 14NC10SS007 and the MSD exceeded the upper control limit, the DRO surrogate met control limits. Sample 14NC10SS001 had the DRO surrogate recovery exceed the upper control limit.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

Sample results reported with surrogate recoveries exceeding the upper control limit are flagged QH for quality issues with potential high bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualifications.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
Yes No x NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

□Yes □ No x□NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ No □xNA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS03 and -10SS004, was submitted with this SDG.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate analyses and precision.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/24/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44702-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      Glycols were analyzed by TA-Denver as stated in the QAPP.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260/GRO trip blank may have leaked, the cap was loose upon receipt. Siloxane and other target and non-target analytes were detected in the chromatogram.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted.

e. Data quality or usability affected? (Please explain.)

Comments:

While the leaking method blank may have some effect on sample results, the results are still usable to determine if site specific cleanup goals have been achieved.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐xYes ☐ No ☐NA (Please explain.) Comments:

The trip blank had detections, the VOC method blank had detections, the PAH MS/MSD failed recovery low for antrhacene and fluorene. One sample had low glycol surrogate recovery, PCB surrogate failed recovery on secondary column and acceptable on primary column, the PCB MS/MSD failed RPD criteria for PCB 1016.

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The naphthalene hit in the trip blank was confirmed on a rerun. Three variance were granted for this work order. See attachment 2 of this appendix.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

While the overall results are usable to show most of the target analytes are below cleanup levels, the contaminated VOC method blank and trip blank results had some analytes (methylene chloride) above cleanup levels. Subsequent sampling of the same locations under work order 580-44802 showed that Site 10 was non-detect for methylene chloride. It is believed to be wholly a lab contaminant based on the subsequent non-detect results.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes x☐ No ☐NA (Please explain.) Comments:

Sample 14NC10SS006 had 1,1,2,2 PCE exceed the cleanup level as well as several other analytes that were identified in the QAPP as having reporting limits greater than cleanup levels. Sample 14NC10SS006 had 40% moisture in the sample, which elevated the reporting limits.

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes without qualification with respect to sample analyses, holding times and reporting limits. Non-detect sample results exceeding the cleanup levels are bolded on the results tables.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?
□Yes x□ No □NA (Please explain.) Comments:

Methylene chloride, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene, naphthalene and hexachlorobutadiene exceeded one-half the RL in the VOC method blank, a variance was granted for reporting. GRO was detected in the method blank at a concentration greater than one-half the LOQ. A variance was granted for reporting results at concentrations well below the cleanup level.

iii. If above PQL, what samples are affected?
Comments:

Methylene chloride was detected in all samples above the cleanup level and naphthalene was detected in sample 14NC10SS001 above the RL but less than the site-specific cleanup level.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
x□Yes □ No □NA (Please explain.) Comments:

Samples are B flagged for either method blank or trip blank contamination.

v. Data quality or usability affected? (Please explain.)
Comments:

While the results indicate that areas have analytes above cleanup levels, subsequent sampling following additional excavation due to DRO above CULs show all VOC and GRO results were below site-specific cleanup levels. The usability to demonstrate CULs had been achieved was not presentable, the follow up sampling did show CULs for VOCs had been achieved.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
x□Yes □ No □NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes □x No □NA (Please explain.) Comments:

The 8270 PAH MS/MSD had low recoveries for anthracene and fluorene in sample 14NC10SS005. The metals MS/MSD on the same sample also had low recoveries of chromium and lead and had high recoveries of barium, vanadium.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes □ No □NA (Please explain.) Comments:

The PCB analysis on sample 14NC10SS005 failed to meet RPD for Aroclor 1016, which was non-detect.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample 14NC10SS005 was affected as all lab LCS/LCSD batches met recovery criteria and demonstrated batch control in the laboratory.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x□Yes □ No □NA (Please explain.) Comments:

High recoveries are flagged QH, low recoveries are flagged QL and failed RPD of Aroclor 1015 is flagged QN.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

While the MS/MSDs failed to meet some of the acceptance criteria, the results are still usable to demonstrate that none of the analytes in the MS/MSD exceeded cleanup levels.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

□Yes x□ No □NA (Please explain.) Comments:

The glycol analysis of sample 14NC10SS006 had low recovery of the surrogate 1,4 butanediol. The results were non-detect.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

x□Yes □ No □NA (Please explain.) Comments:

The non-detect results for sample 14NC10SS006 are flagged QL for quality issue with potential low bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

While the low surrogate recovery may indicate potential matrix interference, the results are still usable to demonstrate that glycol is below site-specific cleanup levels at Site 10.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐x No ☐NA (Please explain.) Comments:

The trip blank had positive results for twenety VOC analytes and GRO. Most of these analytes were also detected in the VOC and method blanks, suggesting that the laboratory was the source of contamination.

iv. If above PQL, what samples are affected?
Comments:

More than half of the analytes detected in the trip blank were not detected in any samples. Those that were affected are B flagged to indicate blank contamination.

v. Data quality or usability affected? (Please explain.)
Comments:

While it is not ideal to have positive results in the trip blank, most of the analytes detected in the trip blank were also detected in the VOC or GRO method blank, which suggests the lab is the source of contamination.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS003 and 14NC10SS004, was submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Acetone was detected in sample 14NC10SS003 at a concentration of 380 ug/Kg, which is the same concentration detected in the trip blank. The duplicate result for sample 14NC10SS004 was non-detect for acetone. The laboratory is believed to be the source of acetone in the primary sample. The acetone result in sample 14NC10SS003 is already B flagged for trip blank contaminations.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/24/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44718-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TestAmerica's on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes ☐x No ☐NA (Please explain.) Comments:

      The cooler temperature was recorded at 10.8 degrees C upon receipt at the laboratory and the temperature blank was recorded at 4.7 degrees C. Samples were submitted to the on-site mobile laboratory approximately 90 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted. All samples were received in good condition.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt, preservation and documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO method blank had a reported concentration of 6.12 mg/Kg. Sample 14NCMOCESS003 had low RRO surrogate recovery.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with some qualifications. The results are usable to demonstrate site conditions at the sample locations.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the projxect?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. xOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO/RRO method blank had a reported concentration of 6.12 mg/Kg

      iii. If above PQL, what samples are affected?
      Comments:

The DRO method blank result was less than half the LOQ, sample results less than 10 times the blank concentration are B flagged. Five of the eleven samples submitted in this SDG were B flagged.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Results less than10 times the method blank are B flagged.

v. Data quality or usability affected? (Please explain.)
Comments:

While method blank contamination has potential to affect data quality, the flagged results are well below site-specific cleanup levels.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, xAK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐x NA (Please explain.) Comments:

No quality issues with spike recoveries so no flags considered.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample QC recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes x☐ No ☐NA (Please explain.) Comments:

Sample 14NCMOCESS003 had low RRO surrogate recovery.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐x Yes ☐ No ☐NA (Please explain.) Comments:

The RRO result for sample 14NCMOCESS003 is flagged QL for low surrogate recovery.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

The low surrogate recovery did not affect the usability of results. The RRO result is more than 30 times less than the site specific cleanup levels. The DRO result indicated that DROr emained at the sample location above cleanup levels

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ No x□NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

Not applicable

v. Data quality or usability affected? (Please explain.)
Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCESS017 and –MOCESS018, was submitted with this SDG.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
xR_2 = Field Duplicate Concentration
x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

Sample results are usable without qualification with respect to field duplicate collection and precision.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No □x NA (Please explain.) Comments:

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/25/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44735-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      ☐x Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      The single cooler temperature was recorded at 7.2 degrees C upon receipt at the laboratory and the temperature blank was recorded at 3.5 degrees C. Samples were submitted to the on-site mobile laboratory approximately 30 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample handling and documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐xYes ☐ No ☐NA (Please explain.) Comments:

The RRO matrix duplicate (PSP081 from WO 580-44665-1) had a recovery exceeding the upper control limit.

c. Were all corrective actions documented?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No corrective actions were required. The LCS was in control.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with qualification (QH) for the high RRO spike recovery in the MSD.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

No flags were required, the MB is ND.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

X☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No X☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The RRO MSD had high recovery, above acceptance limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample PSP081 RRO is flagged QH for high spike recovery. It should be noted that sample PSP081 is from a different work order (580-44665-1) but is a project sample from another site at NE Cape.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Sample PSP081 is flagged QH for high RRO recovery.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualification for sample PSP081, the RRO result is well below the site-specific cleanup level.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□xYes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No x□NA (Please explain.) Comments:

All surrogate recoveries were within acceptance limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
□Yes □ No x□NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ No x□NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

Not applicable, no trip blank required nor submitted.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCESS014 and –MOCESS018, was submitted with this SDG.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate precision and frequency.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date:

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number:

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

   The single cooler temperature was recorded at 9.0 degrees C upon receipt at the laboratory and the temperature blank was recorded at 3.5 degrees C. Samples were submitted to the on-site mobile laboratory approximately 45 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received on ice.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable without qualification with respect to sample preservation and documentation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had a reportable concentration at less than half the LOQ.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with qualification for DRO detections in the method blank.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      DRO was detected in the method blank at a concentration less than half the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

      Samples 14NCMOCI002 and –I003 were B flagged.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      B flag

      v. Data quality or usability affected? (Please explain.)

      Sample results are usable for project purposes with above noted qualification for blank contamination. The affected sample results are more than 100 times below the site-specific cleanup level.

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all xother analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All spiked QC met accuracy and precision criteria.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification for surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required or submitted.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCISS002 and MOCISS003, was submitted with this SDG.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Duplicate precision and the overall 10% duplicate frequency was met for the project.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

NA

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/25/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44758-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TestAmerica's on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes x□ No □NA (Please explain.) Comments:

The single cooler temperature was recorded at 7.7 degrees C upon receipt at the laboratory and the temperature blank was recorded at 2.1 degrees C. Samples were transferred from an on-site sample refrigerator where they were stored along with the temperature blank to a cooler and walked over to the mobile laboratory, resulting in a warm cooler but with a temperature blank within acceptance range. Results are not considered impacted by the elevated cooler temperature due to the very short time between loading samples in the cooler and submittal to the lab as well as supporting evidence that the temp blank was within acceptance range.

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      □xYes □ No □NA (Please explain.) Comments:

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
      x□Yes □ No □NA (Please explain.) Comments:

All samples were received in good condition.

   d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
      □Yes x□ No □NA (Please explain.) Comments:

No discrepancies were noted.

   e. Data quality or usability affected? (Please explain.)
      Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions and documentation.

4. Case Narrative
   a. Present and understandable?
      x□Yes □ No □NA (Please explain.) Comments:

   b. Discrepancies, errors or QC failures identified by the lab?
      x□Yes □ No □NA (Please explain.) Comments:

Two sets of MS/MSDs failed to meet recovery limits. The parent sample concentrations of 2 of the 3 MS/MSDs was greater than four times the spike concentration so no flagging is required. The third set of MS/MSDs met recovery and precision criteria.

c. Were all corrective actions documented?
☐Yes ☐x No ☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification. The results were used for waste characterization and disposal.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
   Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

Not applicable, all MB results were ND.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flagging required.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)

☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

Two sets of MS/MSDs failed to meet recovery limits. The parent sample concentrations of 2 of the 3 MS/MSDs were greater than four times the spike concentration so no flagging is required. The third set of MS/MSDs failed to meet recovery criteria for DRO

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Only the DRO result for sample 14NCMOCBW442 is flagged QL for low MS/MSD recovery.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Only the DRO result for sample 14NCMOCBW442 is flagged QL for low MS/MSD recovery.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with qualification of sample 14NCMOCBW442 with respect to spiked sample accuracies and recoveries. The results are still usable for project purposes, which is waste characterization and disposal.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐x NA (Please explain.) Comments:

All surrogate recoveries were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries. All surrogate recoveries met control limits.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

□Yes □ No x□NA (Please explain.) Comments:

iii. All results less than PQL?

□Yes □ No □NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank submitted or required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x□Yes □ No □NA (Please explain.) Comments:

Three sets of field duplicates, MOCBW463-MOCBW564, MOCBW464-MOCBW564 and MOCBW470-565, were submitted with this SDG.

ii. Submitted blind to lab?

x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

□Yes x□ No □NA (Please explain.) Comments:

One of three sets of DRO/RRO samples failed to meet RPD criteria for RRO. Samples MOCBW470 and MOCBW565 have QN qualified on the RRO result for failure to meet precision criteria.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While one set duplicate results failed to meet criteria, the results are still usable for project purposes, which is waste characterization and disposal. The results were used by the disposal facility only as POL is a non-hazardous class.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

Samples were collected with disposable sampling e quipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/26/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44766-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □xYes □ No □NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No x□NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x□Yes □ No □NA (Please explain.) Comments:

   b. Correct analyses requested?
      x□Yes □ No □NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x□Yes □ No □NA (Please explain.) Comments:

   The single cooler temperature was recorded at 11.9 degrees C upon receipt at the laboratory and the temperature blank was recorded at 4.5 degrees C. Samples were submitted to the on-site mobile laboratory approximately 55 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
   □xYes □ No □NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
   x□Yes □ No □NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
   □Yes x□ No □NA (Please explain.) Comments:

No discrepancies were noted.

e. Data quality or usability affected? (Please explain.)
   Comments:

Sample results are usable for project purposes without qualification with respect to sample handling, conditions, and documentation

4. Case Narrative
   a. Present and understandable?
      x□Yes □ No □NA (Please explain.) Comments:

   b. Discrepancies, errors or QC failures identified by the lab?
      x□Yes □ No □NA (Please explain.) Comments:

The DRO method blank had a reported concentration of 6.81 mg/Kg.

   c. Were all corrective actions documented?
      □Yes □ No x□NA (Please explain.) Comments:

No corrective actions were required.

   d. What is the effect on data quality/usability according to the case narrative?
      Comments:

Sample results are usable for project purposes, sample results are greater than 10 times the MB concentration so results are not affected or qualified.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x□Yes □ No □NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
a. Method Blank
i. One method blank reported per matrix, analysis and 20 samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO method blank had a reported concentration of 6.81 mg/Kg, which was less than half the LOQ

iii. If above PQL, what samples are affected?
Comments:

No sample results were affected.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
☐Yes ☐x No ☐NA (Please explain.) Comments:

All DRO sample results were greater than 10 times the blank concentration so no results were flagged

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

☐Yes x☐ No☐NA (Please explain.) Comments:

Only a single LCS was analyzed in this work order.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All QC met accuracy and precision criteria.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□xYes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No □xNA (Please explain.) Comments:

All surrogates met recovery criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
□Yes □ No x□NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes □ No x□NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required or submitted.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCISS022 and –MOCISS024, was submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/26/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44772-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

      The single cooler temperature was recorded at 6.4 degrees C upon receipt at the laboratory and the temperature blank was recorded at 3.5 degrees C. Samples were submitted to the on-site mobile laboratory approximately 45 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or documented.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions, preservation and handling.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies or QC errors were noted or discovered during data review.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification. No QC errors were noted or discovered during data review.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
□xYes □ No □NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
□xYes □ No □NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
□xYes □ No □NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes with respect to sample analyses, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x□Yes □ No □NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x□Yes □ No □NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      □Yes □ No x□NA (Please explain.) Comments:

      No flags were assigned, the MB was ND for DRO/RRO.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Not applicable, all spiked QC were in control.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All QC was in control

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other xanalyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries being within control limits.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

No trip blank was required so there is no effect on data quality.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

A field duplicate was not submitted with this work order, the overall 10% field duplicate frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

A field duplicate was not submitted with this work order, the overall 10% field duplicate frequency was met for the project

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/26/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44778-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No ☐x NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile lab.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes ☐x No ☐NA (Please explain.) Comments:

   The single cooler temperature was recorded at 8.2 degrees C upon receipt at the laboratory and the temperature blank was recorded at 3.8 degrees C. Samples were submitted to the on-site mobile laboratory approximately 30 minutes after sample collection and results are not considered impacted by the elevated cooler temperature due to the very short time between collection and submission as well as supporting evidence that the temp blank was within acceptance range.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample conditions, preservation and documentation

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No ☐NA (Please explain.) Comments:

No QC failures were documented nor discovered during data review.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required, all QC met control limits.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to QC acceptance and notations in the case narrative.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA, MB was ND

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      MB was ND

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No NA☐NA (Please explain.) Comments:

All spiked QC samples met control limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked QC sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other xanalyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No field duplicate pair was submitted with this work order. The overall 10% field duplicate frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No field duplicate pair was submitted with this work order. The overall 10% field duplicate frequency was met for the project

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable. Samples were collected with disposable sampling equipment

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 11/26/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44799-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Page 2 of 2 of the CoC was not signed. The sampler signed the CoC after sample submission.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample conditions upon receipt and documentation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Sample 14NC10SS022 failed surrogate recovery high in both DRO and RRO analyses.

c. Were all corrective actions documented?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Results were flagged for high surrogate recovery.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with qualification of results for sample 14NC10SS022 for high surrogate recoveries in DRO and RRO analyses.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
☐x Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification for sample documentation, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      All MBs were ND for DRO/RRO

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, xAK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all xother analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No ☐x NA (Please explain.) Comments:

All spiked QC samples met accuracy and precision limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked QC accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐x No ☐NA (Please explain.) Comments:

Sample 14NC10SS022 failed surrogate recovery high in both DRO and RRO analyses

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO and RRO results for sample 14NC10SS022 are flagged QH for quality issue with potential high bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with qualification for high surrogate recovery in sample 14NC10SS022. Those sample results are well below site-specific cleanup levels.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates, 14NC10SS008 and SS009, and 14NC10SS014 and –SS015, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable. Samples were collected with disposable sampling equipment

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/1/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44802-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The laboratory noted that the container for 14NC10SS008 had a collection time of 1110 and the CoC listed a collection time of 1105. The sample was logged in per the CoC. The sample was extracted within holding time for all analyses so results are unaffected.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions and documentation.

4. Case Narrative

x☐Yes ☐ No ☐NA (Please explain.) Comments:

a. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The VOC CCV had recoveries of acetone and vinyl chloride exceed the upper control limit. A variance was granted for reporting as all samples were ND for acetone and vinyl chloride. The VOC MB had detections of 1,2,3 trichlorobenzene and naphthalene. The VOC LCS had recovery of vinyl chloride exceed the upper control limit. The VOC MS had recoveries exceed the upper control limit for 2,2-dichloropropane and vinyl chloride. The case narrative noted the VOC MSD had recoveries exceed the upper control limit for vinyl chloride and several MS/MSD analytes failed RPD limits (See comments below). Pyrene was detected in the PAH MB at greater than ½ the LOQ. GRO had high surrogate recovery in 2 samples. The GRO LCS/LCSD failed to meet RPD criteria. The GRO MS/MSD had recoveries below acceptance criteria.

b. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Three variances were granted for out of control VOCs.

c. What is the effect on data quality/usability according to the case narrative?

Comments:

While there were several QC failures. The results are still usable for project purposes with qualifications where appropriate.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes x☐ No ☐NA (Please explain.) Comments:

1,2,3 trichloropropane, 1,2-dibromoethane, methylene chloride and vinyl chloride non-detect results exceeded the site specific cleanup levels. The QAPP had noted that 1,2,3-trichloropropane and 1,2-dibromoethane reporting limits were greater than site cleanup levels.

e. Data quality or usability affected?

Comments:

While the non-detect reporting limits exceeding cleanup levels for methylene chloride and vinyl chloride do not meet QAPP specified data quality objectives, the results are still usable

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The VOC MB had detections of naphthalene and 1,2,3 trichlorobenzene. Only naphthalene was detected in project samples. The PAH MB had pyrene detected in the MB at a concentration greater than ½ the LOQ.

iii. If above PQL, what samples are affected?

Comments:

Samples 14NC10SS008, -015 and -013 naphthalene results were B flagged. Eleven of the fourteen samples in this SDG had their naphthalene results B flagged. Eight of the fifteen PAH results for pyrene were B flagged.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Affected sample results are B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

While blank contamination may bias results, all B flagged results are well below site-specific cleanup levels. The results are usable for project purposes, which are to determine if site-specific cleanup goals have been achieved at the sample locations.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The VOC LCS had recovery of vinyl chloride exceed the upper control limit. The VOC MS had recoveries exceed the upper control limit for 2,2-dichloropropane and vinyl chloride. The GRO MS/MSD failed to meet recovery and RPD limits. The metals MS/MSD on sample 14NC10SS021 exceeded the upper control limits in the MS for chromium and vanadium and the MSD also exceeded upper control limits for chromium, vanadium and zinc. The LCS/LCSD and post-digestion spike met control limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The case narrative noted the VOC MSD had recoveries exceed the upper control limit for vinyl chloride and several MS/MSD analytes failed RPD limits. However, upon examination of percent recoveries, all MS/MSD percent recoveries met precision limits when RPD is calculated on percent recoveries and not on raw recoveries. No flags were assigned based on precision in MS/MSD recoveries for VOCs. The GRO MS/MSD recoveries were either non-detect or way below acceptance range. The GRO/LCS/LCSD also failed to meet RPD limits.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

VOC results for 2,2-dichloropropane and vinyl chloride are not flagged as all results are ND so results are not affected. Positive GRO results are flagged QN for the LCS/LCSD not meet precision limits. Chromium, vanadium and zinc results are flagged QH for the MS/MSD recoveries exceeding the upper control limit.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Noted above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

While the numerous QC failures indicate quality issues, the results are still usable for determining if site cleanup goals have been achieved at this location (Site 10).

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

Sample 14NC10SS013 GRO surrogate recovery exceeded the upper control limit.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO result for sample 14NC10SS013 was already flagged QN for failed RPD in the LCS so no additional flags were added.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

While the surrogate recovery for sample 14NC10SS013 indicates a quality issue, the GRO result for sample 14NC10SS013 is well below cleanup level and the result can be used to show that GRO is below site-specific cleanup levels at Site 10.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

1,2,4-trimetylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, m,p xylene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, tert-butylbenzene, and toluene were detected in both the trip blank and project samples. Analytes that were detected in both the trip blank and project samples at a concentration less than 10 times the trip blank concentration are B flagged to indicate blank contamination with potential high bias.

iv. If above PQL, what samples are affected?

Comments:

Roughly half the samples had at least one or more analytes B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

While all results with trip blank contamination indicate a quality issue, all results are less than site specific cleanup levels and the results can be used for project purposes.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates, 14NC10SS008 and SS009, and 14NC10SS014 and –SS015, were submitted with this SDG.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes ☐x No ☐NA (Please explain.) Comments:

1,2,4-trimethylbenzene, chrysene and phenanthrene failed to meet the 50% field RPD criteria for duplicates 14NC10SS014 and –SS015 as specified in the QAPP. Affected results are flagged QN in both duplicate sample results.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While three analytes of over one-hundred anlaytes failed to meet RPD criteria for field duplicates, the results are still well below cleanup levels and can be used for project purposes.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No xNA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/4/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44806-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TestAmerica Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes x□ No □NA (Please explain.) Comments:

Three coolers were shipped for this work order. Cooler 080414-1 was received with a cooler temperature of 3.8 degrees C and a temperature blank at 1.2 degrees C. Cooler 080414-2 was received with a cooler temperature of 6.1 degrees C and a temperature blank at 1.7 degrees C. Cooler 080414-3 was received with a cooler temperature of 6.5 degrees C and a temperature blank at 0.7 degrees C. ADEC cooler acceptance criteria is 4 degrees C +/- 2 degrees and USACE acceptance criteria is a temperature blank at 0-6 degrees C. The cooler receipt forms indicated that all samples were received in good condition so no flags were assigned for the slightly out of control temperatures in the coolers

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      □Yes x□ No □NA (Please explain.) Comments:

The case narrative noted that a 1-liter sample container for DRO analysis of sample 14NCMOCSW07 was received at pH 4. The laboratory added additional hydrochloric acid to bring the pH to less than 2. The case narrative did not note if the sample container with the adjusted pH was used for extraction and analyses. Extra containers were supplied for all analyses

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
      x□Yes □ No □NA (Please explain.) Comments:

All samples were received in good condition.

   d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
      x□Yes □ No □NA (Please explain.) Comments:

Preservation noted above.

   e. Data quality or usability affected? (Please explain.)
      Comments:

Sample results are usable for project purposes without qualification with respect to sample preservation and cooler temperatures.

4. Case Narrative
   a. Present and understandable?
      x□Yes □ No □NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The BTEX LCS had recovery of toluene exceed the upper control limit, so toluene was re-analyzed in a second batch on sample 14NCMOCSW07. The BTEX method blank had reportable concentrations of benzene m and p-xylenes. The BTEX batch was re-analyzed with acceptable results. GRO was detected in the method blank at a concentration of less than one-half the LOQ. The internal standard perylene –d12 recovery was outside of acceptance limits for the MB, LCS and LCSD in the PAH extraction batch 580-166169. The QC results were not reported with the exception of the MS/MSD, which met recovery and internal standard criteria with theh exception of the MS/MSD not meeting RPD requirements for acenaphthylene.

c. Were all corrective actions documented?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

BTEX sample 14NCMOCSW07 was re-analyzed for toluene. The case narrative noted that non-target contamination of the glassware likely interfered with the recovery of the internal standard and is being investigated.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes, which is monitoring for possible impact from excavation activities at the MOC with some qualifications for out of control QC.

5. <u>Samples Results</u>

a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples submitted in this work order were water samples.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes without qualification with respect to sample analyses, holding times and reporting limits.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The BTEX method blank had reportable concentrations of benzene m and p-xylenes. The BTEX batch was re-analyzed with acceptable results. GRO was detected in the method blank at a concentration of less than one-half the LOQ

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

All GRO results, all benzene results and the m,p-xylene result for 14NCMOCSW07 are B flagged for blank contamination at less than 10 times the sample concentration.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

B flagged

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes, which is monitoring surface water for potential impact from excavation activities.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were analyzed for organics only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

□Yes □x No □NA (Please explain.) Comments:

The BTEX LCSD had toluene recover above the upper control limit. The PAH LCS/LCSD failed to report benzo[b]fluoranthene and benzo[k[fluoranthene due to internal standard failures, linked to possible glassware contamination. The LCS also had several other analytes not reported due to the IS recovery failure. The LCSD and MS/MSD recoveries were within control limits so no flags were assigned based on the non-reporting of 6 analytes in the LCS.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes □x No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The PAH MS/MSD failed to meet RPD limits for acenaphtylene. The result was ND in the parent sample so no flags were assigned.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x□Yes □ No □NA (Please explain.) Comments:

The toluene result for 14NCMOCSW07 is flagged QH for quality issue with potential high bias. The acenaphthene result is flagged QN for quality issue in the MS/MSD with no bias direction due to the RPD in the MS/MSD not meeting control limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are still usable for project purposes with above noted qualifications.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

□Yes □ No x□NA (Please explain.) Comments:

All surrogates met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x□Yes □ No □NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x □Yes □ No □NA (Please explain.) Comments:

The CoC noted all volatile samples were in cooler 080414-3.

iii. All results less than PQL?

x□Yes □ No □NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

GRO, benzene and m,p-xylenes were detected in the trip blank. They were also detected in the BTEX and GRO method blanks.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification for the trip blank as the BTEX and GRO method blanks also had these detection and results were flagged based on the method blank detections.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates 14NCMOCSW05 and –SW08, was submitted with this SDG.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

The RRO results in the field duplicates 14NCMOCSW05 and –SW08 failed to meet RPD limits.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

The results are usable for project purposes, which is monitoring excavation activities at the MOC.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

i. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/4/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44811-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Samxple/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
☐Yes ☐ No x☐NA (Please explain.) Comments:

There were no failures.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and acceptable quality control indicators.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. sOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No s☐NA (Please explain.) Comments:

      The method blank was reported ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)
□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
s□Yes □ No □NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all sother analyses see the laboratory QC pages)
□Yes □ No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Not applicable

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No s□NA (Please explain.) Comments:

All QC met method acceptance criteria.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to QC samples meeting method acceptance criteria.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met method acceptance criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

NA

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required for DRO/RRO analyses only.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NCWELL05 and –WELL06, was submitted with this SDG.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency, analysis and reporting.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/4/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44813-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes with respect to sample receipt conditions.

4. Case Narrative
a. Prexsent and understandable?
☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies or QC errors were noted or discovered during document review.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification with respect to items identified in the case narrative.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. sOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      The method blank was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All QC was within control limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to QC analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Sample results are usable without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No field duplicate was submitted with the seven samples submitted in this work order. The overall 10% frequency was met for the project.

ii. Submitted blind to lab?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

i. All results less than PQL?

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

Not applicable

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/5/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44828-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   Samples were received by TA-Seattle. TA-West Sac performed percent moisture, SVOCs, and PCB analyses. TA-West Sac is an ADEC CS and DOD accredited laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   Note, the Turnaround time was changed via email from1 day TAT to 10-day TAT via email that is attached at the end of the report.

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Vxolatile Chlorinated Solvents, etc.)?
☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐x No ☐NA (Please explain.) Comments:

NO discrepancies were noted

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and preservation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
☐xYes ☐ No ☐NA (Please explain.) Comments:

SVOCs had both high and low surrogate recoveries, GRO samples had high field surrogate recovery. PCB samples required several mercury cleanups (not failures). The PCB confirmation column CCV was out of control for surrogate decachlorobiphenyl, primary column in control. The metals MS/MSD failed high for vanadium and chromium. The mercury lab duplicate RPD was out of control.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

NO corrective actions were required. Matrix interference is suspected in most out of control parameters.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with proper qualification for out of control QC.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

All method blanks were ND.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

Chromium and vanadium recoveries in the MS/MSD exceeded the upper control limit in sample 14NCWELLSS01. The case narrative noted that the PAH MS/MSD was out for prep batch 320-50137, which only contained one project sample. The rest of the samples were prepped in batch 320-49462 with a project MS/MSD that met all acceptance criteria so no flags were assigned.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

☐Yes x No ☐NA (Please explain.) Comments:

The mercury lab duplicate failed to meet RPD control limits.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The lab LCS/LCSDs were within control limits so only the out of control analytes for sample 14NCWELLSS01 are flagged for high metals recoveries and mercury RPD out of control.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Chromium and vanadium are flagged QH for high recoveries and the mercury result is flagged QN for failure to meet RPD control limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

The data quality is minorly impacted from the out of control results but the results are still usable to demonstrate that these affected analytes are well below site-specific cleanup levels.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes x☐ No ☐NA (Please explain.) Comments:

The surrogate 4 bromofluorobenzene (BFB) was added as a surrogate in the laboratory for GRO analysis. The primary surrogate trifluorotoluene (TFT) was added to the methanol preservative prior to sample collection and is the primary surrogate for GRO by Alaska method AK101. TFT was within control limits for all samples so no flags were assigned based on surrogate recoveries for GRO analysis. Matrix interference is noted in the case narrative as the root cause of surrogate failure. The PAH surrogate nitrobenzene-d5 failed to meet surrogate recovery limits low in sample 14NCWELLSS07, -SS10 and –SS11. Sample 14NCWELLSS10 also had surrogate 2-fluorobiphenyl fail high. Terphenyl-d14, the primary PAH surrogate, met control limits so no PAH results were flagged based solely on surrogate recoveries.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐x No☐NA (Please explain.) Comments:

Terphenyl-d14 is the surrogate most related to PAHs and was in control so no flags were assigned. TFT is a field surrogate and per the AK101 method, the field surrogate is the only applicable surrogate for the AK101-GRO method.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x Yes No NA (Please explain.) Comments:

The Special Instructions section of the CoC noted that all methanol preserved samples were contained in cooler 080614-1, all other sample jars were in cooler 080614-2.

iii. All results less than PQL?

X Yes No NA (Please explain.) Comments:

The GRO trip blank had a reportable concentration of 2.6 mg/Kg, which is less than the LOQ but greater than half the LOQ, LOQ=4.0 mg/Kg. All BTEX analytes were detected in the trip blank at concentrations less than one-half the LOQ.

iv. If above PQL, what samples are affected?

Comments:

6 of the 16 project samples submitted were B flagged for GRO trip blank contamination. 2 results were B flagged for benzene, 4 results were B flagged for ethylbenzene, 2 results were flagged for m,p-xylenes, 2 results were flagged for o-xylene and 1 result was flagged for toluene.

v. Data quality or usability affected? (Please explain.)

Comments:

While having contamination in the trip blank for every analyte indicates potential bias for results, all GRO and BTEX results were well below site-specific cleanup levels and the results can be used to demonstrate that soil at the well locations have BTEX and GRO concentrations less than site-specific cleanup levels.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x Yes No NA (Please explain.) Comments:

Two sets of field duplicates, 14NCWELL04 and –WELL05, and 14NCWELL13 AND –WELL14, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

Ethylbenzene failed to meet RPD (110%) for field duplicates 14NCWELLSS05 and –SS06 and their results are flagged QN. Aroclor 1254 failed to meet RPD in samples 14NCWELLSS13 and –SS14 and their results are flagged QN as well. It should be noted that assigning the QN flag to the ethylbenzene results conflicts with the stated criteria in the QAPP that both results be reported at concentrations above the LOQ for flags to be assigned but the vast difference between the results (210 mg/kg and 15 mg/Kg (J flag) in the duplicates) by more than an order of magnitude prompts the reviewer to note and flag the results for ethybenzene.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

While there were 2 results that failed to meet duplicate RPD criteria, all results are usable for project purposes, which is identify if any contaminants of concern are present in the soil at the well locations at concentrations greater than the site-specific cleanup level.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐x NA (Please explain.) Comments:

No decon or equipment blank was collected. It was not required in the Statement of Work thus not collected.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/5/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580/44829-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

☐xYes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted nor discovered during document review

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MSD failed low for recovery limits.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

NO corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification. The DRO MSD parent sample concentration had more than 4 times the spike concentration so no qualification is necessary.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. xOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA. the DRO MB was ND

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO MSD failed to meet the lower recovery limit. The parent sample concentration was greater than 4 times the spike concentration so no flags were assigned.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No sample results are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were required.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All sample surrogates met acceptance criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

No trip blank was required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

□xYes □ No □NA (Please explain.) Comments:

ii. Submitted blind to lab?

x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/8/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44831-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were received by TA-Tacoma. PCB samples were forwarded to TA-West Sac for analysis.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions and documentation.

4. Case Narrative

a. Present and understandable?

☐xYes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Vinyl chloride was detected in the VOC method blank. The VOC MS had high recoveries of several analytes. There was insufficient volume for a TCLP-SVOC MSD, an MS was extracted. Hexachloroethane and nitrobenzene recovered high in the TCLP-SVOC-MS. Sample 14NCDRUM001 may contain Aroclor 1254 but the chromatographic pattern did not match the standard.

c. Were all corrective actions documented?

X Yes ☐ No ☐NA (Please explain.) Comments:

A variance was granted for vinyl chloride in the VOC MB.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes, which are waste characterization and disposal, with proper qualification for out of control analytical parameters.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. xOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

Sample 14NCDRUM001 vinyl chloride result is B flagged for detection in the method blank at a concentration less than 10 times the blank concentration.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

B flagged

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes, which are waste characterization and disposal, with proper qualification for blank contamination. All sample results are below regulatory levels for hazard determination.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐xYes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The VOC MS had 7 analytes exceed the upper control limits, only benzene was detected in the sample and having a recovery exceed the upper control limit. The TCLP SVOC MS had the recovery of hexachloroethane and nitrobenzene exceed the upper control limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all xother analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The benzene result for sample 14NCDRUM001 is flagged QH for quality issue with potential high bias. Hexachloroethane and nitrobenzene were non-detect in sample 14NCDRUM001 so no flags were assigned.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

14NCDRUM001 is flagged QH

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with the above noted qualifications.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other xanalyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes x☐ No ☐NA (Please explain.) Comments:

The single sample in this work order was submitted for tCLP-VOC analyses, which does not have a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

No trip blank required

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

The overall 10% sampling frequency was met for the project.

ii. Submitted blind to lab?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
xR_2 = Field Duplicate Concentration
☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

NA

f. Decontamination or Equipment Blank (If not used explain why).

Sample was collected with disposable sampling equipment.

□Yes □x No □NA (Please explain.) Comments:

i. All resultsx less than PQL?

□Yes □ No □NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/8/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44835-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MSD failed to meet recovery limits due to high initial parent concentration.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No ☐x NA (Please explain.) Comments:

      Method blank was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO MSD failed to meet recovery limits due to high initial concentration in the parent sample.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NO results were flagged.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were required.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

NO trip blank required. Samples submitted for DRO/RRO analyses only.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐x No ☐NA (Please explain.) Comments:

Only 4 samples were submitted with this SDG. The overall 10% duplicate frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable. No field duplicate was submitted with this SDG. The overall 10% duplicate frequency was met for the project.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable. All samples were collected with disposable sampling equipment

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/8/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44839-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   All samples were received and analyzed by TestAmerica-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes with respect to sample documentation and receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The arsenic MS/MSD RPD failed to meet acceptance criteria.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      All MB results were ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for arsenic analyses only.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
x□Yes □ No □NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

The case narrative noted that the arsenic MS/MSD failed to meet RPD criteria on sample 44839-29 (14NC21SS049-2). The percent recoveries on the MS/MSD were 106 and 116% respectively. When RPD is calculated on percent recoveries and not on raw recoveries the RPD is 9%, therefore results are not flagged based on the RPD of the arsenic MS/MSD.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

No samples are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No x□NA (Please explain.) Comments:

No sample results are affected.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were analyzed for arsenic only, which does not use a surrogate in the analysis.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Surrogates are not affected by analysis.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Three sets of field duplicates, 14NC21SS045-1 and -21SS045-1.5, and -21SS048-1 and 21SS048-1.5, and -21SS049-1 and -21SS049-1.5, were submitted with this SDG.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/8/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44850-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The one sample in this work order was received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

☐sYes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies or QC failures were noted.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and all QC met criteria.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. sAll method blank results less than PQL?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No =x☐NA (Please explain.) Comments:

      MB was ND

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Sample was submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting. All surrogate recoveries met control limits.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

Sample was submitted for DRO/RRO analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank is required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

NO field duplicate was submitted with this work order. The overall 10% frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

not applicable

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Sample was collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/8/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44852-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ Nox ☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to high parent sample concentration in sample MOC BW504. The DRO/RRO second set of MS/MSDs on sample MOCBW4881 failed to meet recovery limits low and the results are flagged QL for quality issue with potential low bias.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The LCS/LCSD met recovery and precision limits.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with proper qualification for out of control QC.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No ☐xNA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)

☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to high parent sample concentration in sample MOC BW504. The DRO/RRO second set of MS/MSDs on sample MOCBW4881 failed to meet recovery limits low and the results are flagged QL for quality issue with potential low bias

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

MOCBW488 is flagged QL for low DRO recovery in the MS/MSD

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualification for the failed MS/MSD.

c. Surrogates – Organics Only

i. xAre surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No x□NA (Please explain.) Comments:

All surrogate recoveries met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification for surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a cxomment explaining why must be entered below)
□Yes □ No □NA (Please explain.) Comments:

iii. All results lxess than PQL?
□Yes □ No □NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

Not applicable, no trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

ii. Submitted blind to lab?
□xYes □ No □NA (Please explain.) Comments:

Two sets of field duplicates were submitted with this work order, MOCBW481 and MOVBW566, and MOCBW484 and MOCBW567, were submitted with this SDG.

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes □x No □NA (Please explain.) Comments:

Two sets of field duplicates were submitted with this work order, MOCBW481 and MOVBW566, and MOCBW484 and MOCBW567 and both failed to meet duplicate RPD criteria

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

Sample results are usable for project purposes, which is waste characterization and disposable, with out of control results flagged QN for quality issue with no directional bias.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/9/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44876-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □xYes □ No □NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No x□NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile lab

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x□Yes □ No □NA (Please explain.) Comments:

   b. Correct analyses requested?
      x□Yes □ No □NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x□Yes □ No □NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO/RRO MS/MSD failed to meet lower recovery limits.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The LCS met acceptance limits.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with qualifications for out of control QC criteria.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐xYes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. sOne method blank reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      The MB was ND

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (please explain.) Comments:

The DRO/RRO MS/MSD failed to meet recovery limits. The surrogates were well within control limits, the spike recoveries were extremely out of control suggesting that the MS/MSD was never spiked into the soil.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

DRO RRO sample results for sample 14NC10SS031 are flagged QL for quality issue with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Results for sample 14NC10SS031 are flagged QL for quality issue with potential low bias.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes with above noted qualifications. The affected result concentrations are well below the site-specific cleanup levels and the results can be used to demonstrate that DRO and RRO at the sample location meet cleanup criteria.

c. Surrogates – Organics Only

i. xAre surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other xanalyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS026 and -10SS027, was submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

xR_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/9/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44877-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

NO discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

s☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐sYes ☐ No ☐NA (Please explain.) Comments:

The DRO MS recovery was below the lower acceptance limit.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The LCS was recovered in control.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with some qualifications for out of control DRO MS.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO MS recovery was 73%, which was 2 percent below the lower acceptance criteria.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Sample 14NCMOCESS029 had its DRO result flagged QL for quality issue with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

QL

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without above noted qualification for the DRO MS recovery being lower than the acceptance level. The results are still usable to demonstrate that site-specific cleanup goals have been achieved at the sample location following excavation activities.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCESS030 and –MOCSS031, was submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/11/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44879-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      xYes No NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      Yes No xNA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      xYes No NA (Please explain.) Comments:

   b. Correct analyses requested?
      xYes No NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      xYes No NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due high DRO concentration in the parent sample.

c. Were all corrective actions documented?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
a. Method Blank
i. One method blank reported per matrix, analysis and 20 samples?
s☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?
s☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?
Comments:

NA

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

The MB was ND

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to the parent sample concentration being greater than 4 times the spike concentration.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No samples are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were assigned based on the failed MS/MSD recovery as the parent sample concentration was greater than 4 times the spike concentration.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Two samples were submitted with this work order without a field duplicate. The overall 10% duplicate frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/10/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44880-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

NO discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to the high parent sample DRO concentration.

c. Were all corrective actions documented?
☐Yes ☐x No ☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with some QC out of control.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      Not applicable the MB was ND

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)
□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes x□ No □NA (Please explain.) Comments:

The DRO MS/MSD failed to meet acceptance criteria.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

The MS/MSD was a NE Cape project sample from work order 580-44879 and is the only result affected. The LCS/LCSD was in control.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □x No □NA (Please explain.) Comments:

The parent sample concentration of the DRO MS/MSD was greater than 4 times the spike concentration so no flags were assigned.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates were within control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

Not applicable

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NCMOCSP018 and –SP019, was submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

xR_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/10/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44887-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Both sets of DRO MS/MSDs failed.

c. Were all corrective actions documented?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NO corrective actions were required. The LCS's were within control limits.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

Two sets DRO MS/MSDs failed to meet recovery limits. The parent sample concentrations were greater than 4 times the spike concentrations.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

s☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No samples were affected

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No flags were required.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other xanalyses see the laboratory report pages)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require trip blanks.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blanks are required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One duplicate set, 14NCPOSP020 and –POSP021, were submitted with this work order. Four sets of POSP field duplicates were also submitted with SDG 580-44897-1.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      □xYes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/11/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44891-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   All samples in this work order were submitted to and analyzed by TestAmerica-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No QC failures were noted or discovered during document review.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      All MBs were ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analyses only in soil and water.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

Not applicable

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were considered or required. All spiked QC met control and precision limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not use surrogates.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Not applicable

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?

☐Yes ☐ Nox ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One soil and one water field duplicate were submitted with samples. The soil duplicates were 14NC21SS002 and -21SS003; the water duplicates were 14NC21SW001 and -21SW002.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x ☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/11/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44894-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were shipped to TA-Tacoma and forwarded to TA-West Sac for analysis due to over-capacity at TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐ x Yes ☐ No ☐NA (Please explain.) Comments:

The closing CCV for PCB analysis had the CCV surrogate recover 2% below the lower acceptance limit

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Samples were reanalyzed with similar results. A variance was granted by the USACE project chemist for reporting sample results (ND) as sample surrogates met recovery limits.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes. The ND results confirm that no PCBs remain at Site 6.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      s☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

The MB was ND

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for PCB analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

All spiked QC samples met precision and accuracy limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags necessary, all surrogates met recovery criteria.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for PCB analysis only, which does not require a trip blank

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

Not applicable

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC06SS002 and 14NC06SS003, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All results were ND so no valid comparison could be made.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/11/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44894-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were submitted to and analyzed by TA-Tacoma

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

s☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The CoC listed only one container, 2 containers were submitted. There was only one sample submitted in this work order so no effect on sample results.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

s☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260-VOC naphthalene MS/MSD failed to meet recovery limits. The parent sample concentration was greater than 4 times the spike concentration so no qualification was necessary.

c. Were all corrective actions documented?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      The MB was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample rsuts are usable for project purposes without qualification with respect to method blank analysis.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No ☐x NA (Please explain.) Comments:

Samples were submitted for naphthalene analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

8260-VOC naphthalene MS/MSD failed to meet recovery limits. The parent sample concentration was greater than 4 times the spike concentration so no qualification was necessary.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were required.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes x☐ No ☐NA (Please explain.) Comments:

The trip blank was inadvertently excluded from the sample shipment.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

The trip blank was inadvertently excluded from the sample shipment.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results were not affected as the sample results were very high concentration.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC27SS01 and -27SS002, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/12/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44897-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      All samples were received and analyzed by the TestAmerica on-site mobile laboratory

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      The sample cooler temperature was recorded at 1.3 degrees C. The temperature blank was recorded at 4.6 degrees C. Samples were submitted within two hours of collection.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to high DRO concentration in the parent sample.

c. Were all corrective actions documented?
☐Yes x☐ No ☐NA (Please explain.) Comments:

NO corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to high DRO concentration in the parent sample.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No flags were assigned as the MS/MSD parent sample concentration was greater than 4 times the spike concentration

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No ☐NA (Please explain.) Comments:

No flags were assigned as the MS/MSD parent sample concentration was greater than 4 times the spike concentration

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/.RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a coxmment explaining why must be entered below)
☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

Not applicable

v. Data quality or usability affected? (Please explain.)

Comments:

No applicable, no trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Four sets of field duplicates were submitted in this SDG; 14NCPOSP39 and –PSOP46, -POSP40 and –POSP47, -POSP38 and-POSP48, -POSP 37 and –POSP49.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision. All 4 duplicate sets met precision criteria.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/12/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44911-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   All samples were received by TA-Tacoma. Glycol samples were transferred to TA-Denver for analysis. TA-Denver is an ADEC CS and DoD accredited laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

☐xYes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Several of the container sample IDs did not match the CoC. The alphanumeric sample ID noted the samples were collected from site 21 and were in fact collected from Site 10. Samples were logged in per the CoC, which has been verified as correct.
The CoC also listed 3 containers for sample 14NC10SS026 and only one methanol preserved container was received. The sample jar was mis-labeled as noted above. All analyses proceeded without discrepancy once the sample IDs were corrected via email.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The VOC CCV had a low recovery of bromomethane, which is noted as a poor performer for VOCs by EPA method 8260. A reporting limit standard was analyzed with acceptable recoveries. A variance was granted by the USACE project chemist for reporting the low CCV, bromomethane was non-detect in all samples.

The minimum response factor (RF) for the 8260 CCV in analysis batch 580-166933 was outside of acceptance criteria for vinyl chloride, acetone, and 2-butanone. A low level CCVL was analyzed with acceptable criteria. Any detections of these 3 analytes is considered an estimate. Acetone was detected in sample 14NC10SS024 and the trip blank. The acetone result for sample 14NC10SS024 if flagged both QL for the low CCV recovery and also B flagged for detection in the trip blank. The method blank was ND for acetone. The 8260 method blank did have detections of 2-hexanone, 4-MIBK and naphthalene. 4-MIBK was only detected in the trip blank.Napthalene was detected in sample 14NC10SS024 and the trip blank at concentrations well below the cleanup level, those results are B flagged.

The 8260 VOC MS/MSD recoveries of bromobenzene, sec-butylbenzene, and tetrachloroethene exceeded the upper control limit.

The BFB tune was slightly below acceptance due to rounding errors, the results are acceptable.

The glycol surrogate recoveries in several project samples were below acceptance limits. The glycol method blank had reportable detections of ethylene glycol. The GRO MS/MSD failed to meet lower acceptance criteria.

The metals MS/MSD had recoveries of barium chromium and vanadium exceed the upper control limit. The mercury MS/MSD had recovery of mercury exceed the upper control limit.

Sample 14NC10SS024 failed to meet the lower recovery limit for the surrogate 1,4 butanediol.

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

A variance was granted for the low 8260 CCV for bromomethane. Sample 14NC10SS024 was re-extracted for glycol due to the low surrogate recovery and it had similar results, failure to meet lower recovery limit.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with proper qualification for out of control QC.

5. <u>Samples Results</u>

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes ☐x No ☐NA (Please explain.) Comments:

1,2,3-trichloropropane, 1,2-dibromoethane, 1,2-dichloroethane, methylene chloride and vinyl chloride non-detects at the LOD exceeded the site-specific cleanup levels. 1,2-dibromoethane and 1,2,3-trichloropropane were noted in the QAPP as having reporting limits greater than site specific cleanup levels. The other non-detect analytes had their reporting limits raised due to high moisture in the samples elevating reporting limits above cleanup levels for the five analytes identified in this section as having reporting limits greater than cleanup levels.

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes. Non-detect results that exceeded the site-specific cleanup levels are bolded on the results table for Site 10 excavation results.

6. <u>QC Samples</u>

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260 method blank had detections of 2-hexanone, 4-MIBK and naphthalene. The glycol method blank had reportable detections of ethylene glycol.

iii. If above PQL, what samples are affected?

Comments:

All glycol results were ND so no flags were assigned. Sample 14NC10SS024 was the only sample with a naphthalene detection and its result is B flagged for blank contamination with potential high bias.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes with the above noted naphthalene qualification. All results flagged for blank contamination are well below the site-specific cleanup level and the results can be used to demonstrate that naphthalene and other detected analytes are below cleanup levels.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

s☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

s☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The 8260 VOC MS/MSD recoveries of bromobenzene, sec-butylbenzene, and tetrachloroethene in sample 14NC10SS031 exceeded the upper control limit, the LCS/LCSD met recovery limits. The bromobenzene, sec-butylbenzene and tetrachloroethene results for sample 14NC10SS031 were non-detect so no flags were assigned as the instrument demonstrated the ability to detect these analytes. The GRO MS/MSD on sample 14NC10SS031 had recoveries below the acceptance limit. The mercury MS/MSD on sample 14NC10SS031 had recoveries exceed the upper control limit. The metals MS/MSD on sample 14NC10SS031 had recoveries of barium chromium and vanadium exceed the upper control limit

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample 14NC10SS031 is affected as it was designated on the CoC for MS/MSD analysis.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

The non-detect GRO result for sample 14NC10SS031 is flagged QL. The high 8260 MS/MSD results are not flagged as the results were ND for this sample. The 3 metals (barium chromium and vanadium) along with mercury exceeded the upper control limit in the MS/MSD and those results are flagged QH for quality issue with potential high bias.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualifications for out of control QC. The results still demonstrate that site specific cleanup goals have been achieved for these and other analytes.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x Yes No NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
Yes x No NA (Please explain.) Comments:

Sample 14NC10SS024 failed to meet lower recovery limits. It was re-extracted with similar results.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualifications. All samples were ND for glycols.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

It is noted in the Special Instructions on the CoC that all volatile samples are contained in cooler 081114-001.

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

1,2,3-trichlorobenzene, acetone, tert-butylbenzene, methylene chloride, naphthalene, toluene and GRO were detected in the trip blank. 4-MIBK and naphthalene were detected in the trip blank and also detected in the 8260 method blank.

iv. If above PQL, what samples are affected?

Comments:

GRO, 1,2,3-trichlorobenzene and 4-MIBK, were not detected in any samples. Sample 14NC10SS024 had detections of acetone, tert-butylbenzene and naphthalene and those results are B flagged. Methylene chloride was detected in the trip blank and 7 of the 10 samples submitted in this work order. The trip blank methylene chloride result was 50 to 100 times greater than any sample result. Even the non-detect sample results were greater than the site specific cleanup level for methylene chloride, which is a very common laboratory contaminant. Methylene chloride was not detected in the 8260 method blank.

Toluene was also detected in samples 14NC10SS029 and -031 at concentrations less than 10 times the trip blank concentration and their toluene results are B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS026 and -10SS027, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Most duplicate results were non-detect, however, all of the duplicates with positive results greater than the LOQ met precision limits so results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

☐x Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/15/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44911-2

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   All samples were shipped to and analyzed by TestAmerica-Tacoma

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The CoC listed 3 containers and only 2 were received. One 4 oz container label did not match the CoC for 14NC10SS024. The container actually listed 14NC21SS024. The error was corrected via email.

e. Data quality or usability affected? (Please explain.)

Sample results are usable for project purposes without qualification with respect to sample documentation and receipt conditions. The errors were correctable and did not impact data.

4. Case Narrative

a. Present and understandable?

X Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

There were no errors or QC failures. All QC met control limits.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation and QC meeting criteria.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

Sample was analyzed for TCLP-VOC analysis only and was reported in ug/L.

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA, MB was ND.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No ☐xNA (Please explain.) Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)
☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Sample was analyzed for TCLP-VOCs only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

NA, all QC met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Surrogate met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The trip blank was analyzed under work order 580-44911-1.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to trip blank analyses and reporting. .

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No x☐NA (Please explain.) Comments:

A field duplicate was submitted with samples analyzed in work order 580-44911-1.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Sample was collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/15/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44912-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   All samples were received and analyzed by TestAmerica-Tacoma

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies or QC failures were noted or discovered during document review.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to QC acceptance and documentation.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No ☐xNA (Please explain.) Comments:

      The MB was ND

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

s☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA, all QC met control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags are required.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked QC analyses and reporting. All spiked QC met control limits.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analyses only, which does not use a surrogate in the analysis.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Not applicable

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analyses only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

NA

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank is required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x□Yes □ No □NA (Please explain.) Comments:

Two sets of field duplicates; 14NC21SS017 and -21SS018, and 14NC21SS024 and -21SS024, were submitted with this SDG.

ii. Submitted blind to lab?

x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

xR_2 = Field Duplicate Concentration

x□Yes □ No □NA (Please explain.) Comments:

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iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/15/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44913-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No ☐xNA (Please explain.) Comments:

      Samples were shipped to and analyzed by TestAmerica-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The CoC lists 2 sample containers per sample, but in fact only one was submitted for arsenic analyses only.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No QC failures were noted or discovered during document review.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions are required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification with respect to QC failures. All QC met acceptance criteria.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No ☐xNA (Please explain.) Comments:

The MB was ND.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analyses only.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA, all QC met control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spike sample precision and accuracy.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not use a surrogate.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No ☐xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Not applicable

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

NA

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Only 2 samples were submitted with this work order. The overall 10% field duplicate frequency was met for the project.

ii. Submitted blind to lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/15/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44915-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      X Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes x☐ No ☐NA (Please explain.) Comments:

NO discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits due to the high parent sample concentration.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The LCS/LCSD met recovery limits.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Alxl soils reported on a dry weight basis?
☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      Not applicable, the MB was ND

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x ☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD had spike recoveries exceed the upper control limit due to the parent sample DRO concentration exceeding the upper control limit.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Sample 14NCSP22 was used for the DRO/RRO MS/MSD spike but no flags were assigned.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐x No ☐NA (Please explain.) Comments:

The results are not flagged as the parent sample DRO concentration was greater than 4 times the spike concentration.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Not applicable, no trip blank required.

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NCSO022 and 14NCSP023, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/15/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44917-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative
a. Present and understandable?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
☐Yes ☐x No ☐NA (Please explain.) Comments:

No discrepancies or QC failures were noted or discovered during document review.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐xYes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
☐xYes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA, the MB was ND

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all xother analyses see the laboratory QC pages)

☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spike sample accuracy and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

☐Yes ☐ No ☐xNA (Please explain.) Comments:

iii. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Ten sets of field duplicates were submitted with this SDG. The duplicate sets are; 14NCPOSP46-2 and –POSP047-2,-POSP050 and –POSP081, -POSP055 and –POSP083, -POSP060 and –POSP084, -POSP065 and –POSP085, -POSP070 and-POSP086, -POSP075 and –POSP087, -POSP077 and-POSP088, -POSP080 and-POSP089, -POSP081 and –POSP090.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

☐Yes x☐ No ☐NA (Please explain.) Comments:

Nine sets of field duplicates were submitted with this work order, one set failed to meet RPD limits.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes, one set of field duplicates (14NCPOSP065 and 14NCPOSP085 failed to meet precision limits and their DRO results are flagged QN for quality issue with no directional bias.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

NA

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/16/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44923-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

The Cooler Receipt Form and Login Sample Receipt Checklist noted that 2 of the samples only had one container and the CoC listed 2, one total and one dissolved.

The total metals samples were inadvertently left out of the shipment. The 2 sample containers were later submitted under work order 580-45125-1 and were analyzed within holding time so there were no issues with reporting the results.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes x☐ No ☐NA (Please explain.) Comments:

There were no discrepancies, errors or QC failures.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      □xYes □ No □NA (Please explain.) Comments:

   b. All applicable holding times met?
      x□Yes □ No □NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      □Yes □ No x□NA (Please explain.) Comments:

Only water samples were submitted.

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x□Yes □ No □NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x□Yes □ No □NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x□Yes □ No □NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      □Yes □ No x□NA (Please explain.) Comments:

No flags required.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags required or considered

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analysis and recoveries.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were analyzed for arsenic only, which does not require a trip blank.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Not applicable

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No ☐xNA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

NA

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

No trip blank required.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC21SW004 and -21SW005, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐x NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No ☐x NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/16/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-44975-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      Samples were received by TestAmerica-Tacoma, PAH and DRO/RRO samples were transferred to TA-West Sac for extraction and analysis.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes X□ No□NA (Please explain.) Comments:

Three coolers were submitted for this work order. Two coolers were initially shipped on 8/13/14. Cooler 081314-1 had a cooler temperature of 4.4 degrees C and cooler 081314-2 was received with a cooler temperature of 3.9 degrees C and a temperature blank at 0.7 degrees C. Both cooler temperatures were acceptable. A third cooler containing volatiles that were inadvertently omitted from the shipment was received at the lab on 8/19/14 with a cooler temperature of -0.5 degrees C and a temperature blank measuring 5.8 degrees C. All samples were received in good condition. And analyses and reporting proceeded within holding time and without any affect from the two separate shipments.

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      x□Yes □ No □NA (Please explain.) Comments:

   c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
      x□Yes □ No □NA (Please explain.) Comments:

All samples were received in good condition.

   d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
      x□Yes □ No □NA (Please explain.) Comments:

The sample IDs on the containers did not match the CoC. The samples had an extra 0 (zero) in the sample IDs -01 on CoC and -001 etc on the sample containers. The discrepancy was noted but did not affect the analyses or results.

   e. Data quality or usability affected? (Please explain.)
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative
   a. Present and understandable?
      x□Yes □ No □NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260/BTEX CCV had a response factor below the minimum for acetone. The analysis proceeded without incident. Acetone was not reported for the VOCs, only BTEX so no action is required. Benzene failed high in the 8260 MS, the MSD passed along with the LCS/LCSD. Two of the three surrogates failed to meet recovery limits for PAH analysis. The GRO spike in the MS/MSD was inadvertently omitted during sample preparation/extraction.

c. Were all corrective actions documented?
☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable with some qualifications for out of control QC.

5. <u>Samples Results</u>
a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were water samples.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      ☐xYes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      All MBs were ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

   b. Laboratory Control Sample/Duplicate (LCS/LCSD)

      i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were submitted for organic analyses only.

      iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
      ☐Yes x☐ No ☐NA (Please explain.) Comments:

      The VOC MS failed high for benzene, the parent sample result was ND. No spike was added to the GRO MS/MSD, the LCS/LCSD met recovery limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Sample 14NC08SWA01, benzene result is not flagged for the high MS recovery as the result is ND as are all sample results in this work order. The GRO result for this sample is also not flagged as the LCS/LCSD met recovery limits and the sample result is ND.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐x No ☐NA (Please explain.) Comments:

No flagging was required. Potentially flagged results were ND and supporting QC met control limits.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked QC analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The PAH surrogates nitrobenzene-d5 failed to meet the lower recovery limit in samples 14NC08SWA02 and 14NC08SWA03. Sample14NC08SWA03 also had surrogate 2-fluorobiphenyl fail high.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes x☐ No ☐NA (Please explain.) Comments:

Terphenyl-d14, the primary PAH surrogate, met control limits so no PAH results were flagged based solely on surrogate recoveries.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x Yes No NA (Please explain.) Comments:

iii. All results less than PQL?
x Yes No NA (Please explain.) Comments:

Ethylbenzene, m,p and o-xylene were detected in trip blank 080414-1. Ethylbenzene was non-detect in all project samples, samples 14NC08SWA02 and 14NC08SWA03 had detectable results at 5 to 10 times the trip blank concentrations so no flags were assigned.

iv. If above PQL, what samples are affected?
Comments:

No samples are affected as the trip blank concentrations are 5 to 10 times less than the sample concentrations.

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to trip blank reporting.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x Yes No NA (Please explain.) Comments:

One set of field duplicates, 14NC08SWA02 and -08SWA03, were submitted with this SDG.

ii. Submitted blind to lab?
x Yes No NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes x□ No □NA (Please explain.) Comments:

Four PAHs (1-methylnaphthalene, 2-methylnaphthalene, fluorene and naphthalene failed to meet precision limits (30% RPD) for field duplicate

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results for the above noted PAHs are flagged QN in both samples for failure to meet field duplicate precision. The results are still usable for project purposes with proper qualification for out of control field duplicates.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/18/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45000-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were received and analyzed by the TestAmerica on-site mobile laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Cxorrect analyses requested?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MS/MSD failed to meet recovery limits, partly due to the high parent sample concentration.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required, the LCS met control limits.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results usable for project purposes with some qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. <u>QC Samples</u>
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      The MB was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO/RRO batch of 2 primary samples also had 2 sets of MS/MSDs on the 2 primary samples. The 2 samples were field duplicates. The DRO recovery likely failed in both samples due to the parent sample DRO concentration being greater than 4 times the spike concentration. While not documented, the reviewer suspects that the DRO/RRO MSD on sample MOCBW507 was double spiked based on the MS recovery

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO/RRO MS/MSD on sample MOCBW507 failed to meet RPD limits for both DRO and RRO.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Because of the high parent sample concentrations and relative agreement of the field duplicates, sample results are flagged QN for quality issues with no directional bias.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

While there were QC failures on the MS/MSD, the LCS was in control and the results can still be used for project purposes, which are waste characterization and disposal of POL contaminated soil

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analysis and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for DRO/RRO analyses only, which do not require trip blanks.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable, no trip blanks required for DRO/RRO analyses.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x Yes No NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/19/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45035-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   All samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No discrepancies or errors during analyses.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification with respect to sample analyses, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      The MB was ND.

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
x□Yes □ No □NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
x□Yes □ No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No xNA (Please explain.) Comments:

No flags were considered or required.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to QC sample recoveries and precision.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not use a surrogate during analysis.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Not applicable, surrogates not used for arsenic analysis.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for arsenic analysis only, which does not require a trip blank.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

☐Yes ☐ No x☐NA (Please explain.) Comments:

iii. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC21SS027 and -021SS028, were submitted with this SDG.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/22/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45105-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TA-Tacoma

2. Chain of Custody (COC)
   a. CxOC information completed, signed, and dated (including released/received by)?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

      b. Correct analyses requested?
      ☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      ☐Yes ☐x No ☐NA (Please explain.) Comments:

      The single cooler in this shipment was received with a cooler temperature of 0.2 degrees C and a temperature blank of 0.7 degrees C. The only samples submitted were methanol preserved soil samples for VOC analyses. All samples were received in good condition so no flags were assigned for the lower temperatures.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐ No ☐xNA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260 CCV had calibration responses below the lower acceptance limit for 2-hexanone, acetone, chloromethane, and 2 butanone (MEK). A standard was analyzed at the RL and the target analytes were detected.

The CCV also had recoveries of vinyl chloride and tetrachloroethene reported above the upper calibration limit.

All of these analytes were non-detect and a USACE variance was granted for reporting the ND analytes outside of calibration acceptance limits.

The case narrative failed to identify that the VOC MS/MSD on sample 14NC10SS041 (580-45105-3) had recoveries of bromobenzene, toluene and vinyl chloride exceed the upper recovery limit for these 3 analytes in the MS, MSD or both. The parent sample results were non-detect for the 3 analytes so no flags were assigned as the instrument demonstrated sufficient sensitivity and the LCS/LCSD were within control limits.

c. Were all corrective actions documented?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

All CCVL was analyzed at the reporting limit with positive detections of all analytes outside of calibration limits to show that the instrument can is still capable of detecting analytes at the RL. The sample results were ND.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes without qualification for VOCs, including the analytes outside of calibration limits.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?
☐xYes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
☐Yes x☐ No ☐NA (Please explain.) Comments:

1,2,3-trichloropropane, 1,2 dibromoethane, methylene chloride and vinyl chloride had non-detect results greater than the cleanup levels at the LOD. 1,2,3-trichloropropane and 1,2 dibromoethane were noted in the QAPP as having empirical reporting limits greater than the cleanup levels. The other analytes had reporting limits for non-detects elevated above cleanup levels due to percent moisture in soil elevated the reporting limits above cleanup levels.

e. Data quality or usability affected?
Comments:

Sample results are usable for project purposes without qualification. Non-detect analytes with reporting limits above cleanup levels are bolded on the results table.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      iii. If above PQL, what samples are affected?
      Comments:

      NA, the MB was ND for all VOC analytes.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      v. Data quality or usability affected? (Please explain.)
      Comments:

      Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

   b. Laboratory Control Sample/Duplicate (LCS/LCSD)

      i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were submitted for 82609 VOCs analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

□Yes □x No □NA (Please explain.) Comments:

The case narrative failed to identify that the VOC MS/MSD on sample 14NC10SS041 (580-45105-3) had recoveries of bromobenzene, toluene and vinyl chloride exceed the upper recovery limit for these 3 analytes in the MS, MSD or both. The parent sample results were non-detect for the 3 analytes so no flags were assigned as the instrument demonstrated sufficient sensitivity and the LCS/LCSD were within control limits

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x□Yes □ No □NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample 14NC10SS041 was affected but no flags were assigned.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

□Yes x□ No □NA (Please explain.) Comments:

The instrument demonstrated the ability to detect these analytes at the LOD and the sample results were ND so results are not affected and do not need flags.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

☐Yes x☐ No ☐NA (Please explain.) Comments:

1,2,3-tricloropropane and 1,3 dibromoethane were reported ND at concentrations greater than cleanup levels, the QAPP had identified these 2 analytes as having reporting limits greater than the cleanup levels. Methylene chloride and toluene were positively detected in the trip blank. Neither of these analytes were detected in any project samples. It should be noted that methylene chloride was reported at a positive result nearly 200 times above cleanup levels. It was not detected in any project samples in this work order but it has been reported in most of the trip blanks supplied by the lab for this project so contamination during trip blank preparation is suspected.

iv. If above PQL, what samples are affected?

Comments:

No sample are affected by the method blank contamination. Laboratory contamination during trip blank preparation prior to sending out empty sample containers is suspected.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to trip blank inclusion and reporting.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS041 and 14NC10SS042, were submitted with this SDG.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification. Nearly all results were non-detect. Trichloroethene did not meet RPD limits, however, one of the was below the LOQ and results reported at less than the LOQ are considered estimated due to the lower degree of accuracy so no flags were assigned. The field duplicate comparison protocol is outlined in the project QAPP.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/22/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number:

ADEC File Number: ADEC RecKey Number: 580-45122-1

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      xYes No NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      xYes No NA (Please explain.) Comments:

   Samples were received by TA-Tacoma. Glycol samples were forwarded and analyzed by TA-Denver as outlined in the QAPP. TA-Denver is an ADEC CS and DoD accredited laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      xYes No NA (Please explain.) Comments:

   b. Corrxect analyses requested?
      Yes No NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      Yes x No NA (Please explain.) Comments:

   Ten coolers were shipped for this work order, 5 were within the temperature range. Cooler 082414-3 was received with a cooler temperature of 1.0 degrees C and a temperature blank measured at 0.0 degrees C. No samples were frozen or otherwise compromised from the slightly depressed cooler temperatures and analysis proceeded without any affects from the slightly depressed cooler temperature.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

☐Yes x☐ No ☐NA (Please explain.) Comments:

One sample, 14NCMOCGW14, was received without proper acidification to pH 2 as prescribed in the method. The laboratory added HCL to lower the pH to less than 2 upon noting the high pH and analysis proceeded without incident. It was not noted which analysis the container was for but only DRO/RRO in water is acidified for the range of tests for groundwater collected from the MOC wells.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Sample container 14NCMOCGW12 was received with one of two DRO containers broken upon receipt. The other container was used for analysis without incident. The glycol container for sample 14NCMOCGW17 was a one-liter container, usually a 40 mL container is used. The one-liter PCB container only had 900 mL (0.9 liters) for the MS.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Preservation and broken container noted above as well as the number of containers for the trip blank was noted as 15 containers when only 9 were received. Trip blank analysis was not affected by the incorrect number of trip blanks noted on the CoC.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification. While there were discrepancies between the actual number of containers, container preservation and broken containers, none of these issues affected sample analysis and reporting of results.

4. <u>Case Narrative</u>

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The BFB tune for VOCs was slightly below acceptance criteria due to a rounding error. The VOC MB had 1,2,3-trichlroobenzene, 1,2,4 trichlorobenzene and naphthalene detected in the method blank. The PAH internal standard response for sample 14NCMOCGW03 was outside of acceptance limits. The PAH MB had detections of anthracene, benzo[b]fluoranthene, chrysene, phenanthrene, and pyrene at less than one-half the LOQ. The MS/MSD had recoveries of benzo[a]pyrene, benzo[g,h,i]perylene, dibenz[a,h]anthracene and indeno[1,2,3-c,d]pyrene recover below the lower acceptance limit, the LCS/LCSD met acceptance limits. The PCB surrogate was outside of calibration range on the confirmation column. The PCB MS/MSD failed to meet RPD limits. DRO was detected in the MB. Holding time was missed for 2 samples due to re-extraction (see below). The DRO surrogate failed low in sample 14NCMOCGW16. The DRO LCSD had lowe recovery and DRO and RRO MS/MSD failed to meet RPD limits. The metals MSD failed recovery high for cadmium. Mercury was detected in the method blank.

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO samples were re-extracted due to method blank contamination greater than 1/2 the LOQ. Samples were re-extracted outside of holding time.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

While there were numerous QC failures during analysis, the results are still usable for project purposes with proper qualification for out of control QC. Results are used for monitoring trends in contaminant levels at the MOC in groundwater.

5. <u>Samples Results</u>

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO samples were re-extracted outside of holding time due to method blank contamination greater than one-half the LOQ. The re-extracted samples had method blank contamination at a concentration less than one-half the LOQ and also had a low LCSD recovery for DRO and RRO. The reviewer used professional judgment and reported the initial sample results with results less than 10 times the method blank concentration B flagged.

c. All soils reported on a dry weight basis?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were water samples.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes ☐x No ☐NA (Please explain.) Comments:

1,2,3 trichloropropane and 1,3 dibromoethane had non-detect results exceed their cleanup levels. These analytes were identified in the QAPP as having reporting limits greater than the cleanup levels. The results for these 2 analytes in a single project sample were non-detect. The well was located in Site 10. The non-detect results are bolded on the results table for MOC groundwater.

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes with method blank (B flag) qualification for the DRO blank. All holding times were met. The non-detect results had been previously identified in the QAPP as not meeting cleanup levels. All results are still usable for project purposes

6. <u>QC Samples</u>

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

The DRO results for samples 14NCMOCGW06 and –GW07 are B flagged. They were extracted separately from the rest of the samples. The VOC method blank had reportable concentrations of 1,2,3 trichlorobenzene, 1,2,4 trichlorobenzene and naphthalene detected at less than one-half the LOQ. The single sample in this work order analyzed for VOCs along with a trip blank had positive detections of these three analytes and the results are B flagged for blank contamination. All three results were well below cleanup levels. The PAH method blank had positive detections at less than half the LOQ for anthracene, benzo[b]fluoranthene, chrysene, phenanthrene and pyrene.Most sample results were ND, those affected results whose concentrations are less than 10 times the method blank results are B flagged with potential high bias. Mercury was detected in the total mercury method blank. Nearly all results were either non-detect or at concentrations less than 10 times the blank concentration and were flagged. Non-detect results were not flagged.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Affected results are B flagged

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes with qualification for blank contamination. The results are still below cleanup levels.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The PAH MS/MSD failed low for several analytes on sample 14NCMOCGW01. The DRO LCSD failed to meet recovery limits on a re-extraction batch; the results from that extraction were not presented as the final result so no flags were assigned. Cadmium failed high in the metals MS/MSD. The LCS met recovery limits and the parent sample concentration for cadmium was ND so no flags were assigned.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The PCB MS/MSD failed to meet RPD limits due to the difference in volume of the sample containers. When percent recoveries are used to evaluate the RPD they meet precision criteria so no flags were assigned based on PCB MS/MSD precision.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

The PAH MS/MSD parent sample was ND for the low recovering analytes. The ND results are flagged QL for quality issue with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Noted above

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

While there were QC failures, the results are still usable for project purposes with proper qualification for out of control analyses.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes ☐x No ☐NA (Please explain.) Comments:

The DRO surrogate failed to meet the lower recovery limit in sample 14NCMOCGW16.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The ND result for 14NC MOCGW16 is flagged QL for quality issue with potential low bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Only one surrogate failed to meet recovery limits for DRO analysis. All other surrogates were within control limits. The results can be used for project purposes witth the above noted qualification for the one DRO result.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
X☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Several analytes detected in the VOC method blank were also detected in the trip blank. 1,2 dichlorobenzene and GRO were detected in the trip blank but not the method blank. GRO results less than 10 times the trip blank result are B flagged. Most GRO results are B flagged in this work order.

iv. If above PQL, what samples are affected?
Comments:

v. Data quality or usability affected? (Please explain.)
Comments:

Sample results are usable for project purposes with above noted qualification for GRO. The affected GRO concentrations are well below the site cleanup level for GRO.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two sets of field duplicates, 14NCMOCGW08 and –GW09, and 14NCMOCGW11 and –MOCGW12, were submitted with this SDG.

ii. Submitted blind to lab?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)
Comments:

All field duplicate results met precision limits. Most results were less than the LOQ (J flagged) or ND. Field duplicate results greater than the LOQ in both samples met the 30% precision criteria.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No x□NA (Please explain.) Comments:

No field blank was specified in the Scope of Work.

i. All results less than PQL?

□Yes □ No □xNA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 12/29/14

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45125-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   Samples were shipped to and received by TA-Tacoma. PAH samples were forwarded to TA-West Sac for analysis. TA-West Sac is an ADEC CS and DoD accredited laboratory.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

All samples were received in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Two samples had differing collection times between the containers and the CoC. Two other samples had the sample dates on containers differ from the CoC by one and two days. The CoC had 6 containers listed for the trip blank and 7 containers were actually received at the lab. The samples with incorrect sample times were logged in per the CoC. The samples with incorrect sample dates were logged in per the container to assure holding times were met. All samples were extracted within holding times.

e. Data quality or usability affected? (Please explain.)

Comments:

While the mis-match between the sample containers and CoC had potential to affect sample results, all samples were extracted within holding times. The containers with differing sample dates were submitted for total and dissolved arsenic only, which has a 180 day holding time. All results are usable without qualification with respect to sample documentation, preservation and sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One PAH sample had high surrogate recovery, the sample was noted in the narrative as ND for PAHs; it was not. The PAH MS/MSD had recoveries exceed the upper control limit for 1-methylnaphthalene and 2-methylnaphthalene. The RRO MS/MSD had recoveries exceed the upper control limit.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The LCS/LCSDs met recovery limits and demonstrated batch control so no corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with above noted out of control QC flagged on the parent samples.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were water samples.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

e. Data quality or usability affected?

Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

All MBs were ND.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flags were required.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD xrequired per AK methods, LCS required per SW846)

☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The PAH MS/MSD had recoveries exceed the upper control limit for 1-methylnaphthalene and 2-methylnaphthalene. The RRO MS/MSD had recoveries exceed the upper control limit.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

The two PAH results and the RRO result for 14NCMOCSW12 (used for all MS/MSDs except arsenic) are flagged QH for quality issue with potential high bias.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes, which is monitoring nearby surface waters during excavation activities, with above noted qualifications for the 3 affected analytes.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x Yes No NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
Yes x No NA (Please explain.) Comments:

The PAH surrogate, Terphenyl-d14, recovered above the upper acceptance limit in sample 14NCMOCSW11.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x Yes No NA (Please explain.) Comments:

The fluoranthene and pyrene results for 14NCMOCSW11 are flagged QH for quality issue with potential high bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes with above noted qualification of 2 analytes for QC issue with potential high bias.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Ethylbenzene, m, p and o-xylene were detected in the trip blank at concentrations less than the LOQ. All samples were ND for ethylbenzene except the trip blank itself. Sample 14NCMOCSW12 had xylene concentrations comparable to the trip blank concentration and those results are B flagged for blank contamination with potential high bias.

iv. If above PQL, what samples are affected?

Comments:

All results are less than the LOQ. Only sample 14NCMOCSW12 had any reportable xylene concentrations and those results are B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Three set of field duplicates; 14NCMOCSW09 and –SW10, 14NC21SW004 and –S21SW05, and 14NC21SW09 and -21SW10, were submitted with this SDG.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision. Most results were ND or at concentrations less than the LOQ. s

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

All samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/5/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45126-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The trip blank was noted as possibly not containing the full 25 mL of methanol based on observation and analytical results.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes x☐ No ☐NA (Please explain.) Comments:

No discrepancies were noted or discovered during document review.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The trip blank had low surrogate recovery for GRO. The trip blank was contaminated. The initial GRO analysis was re-analyzed on one sample due to likely mis-injection. The GRO MS/MSD was not properly spiked. Holding times were missed on the DRO/RRO due to MI sample prep taking 5 days to dry. The DRO MB had reportable concentrations at less than half the LOQ.

c. Were all corrective actions documented?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Sample 14NCMOCMI003 was re-analyzed for GRO due to likely mis-injection of the initial analysis, re-analysis reported.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with qualification for out of control QC parameters.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      ☐Yes ☐x No ☐NA (Please explain.) Comments:

Holding times were missed on one DRO/RRO sample due to MI sample prep taking 5 days to dry.

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes with above noted H qualification for extraction outside of holding time on one DRO/RRO sample.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO was detected in the method blank at 1.24 mg/Kg, which is less than half the LOQ.

      iii. If above PQL, what samples are affected?
      Comments:

No samples are affected.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

All reported DRO sample concentrations were greater than 10 times the method blank concentration so no flags were assigned.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No xNA (Please explain.) Comments:

Samples were submitted for organic analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO batch prep failed to spike the MS/MSD. The LCS/LCSD met recovery limits so no flags were assigned. The omission of the MS/MSD spike did not diminish the data accuracy of the results, which were all non-detect for GRO.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

No results are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No flagging was necessary as all spiked QC that was actually spiked was within control limits.

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample analyses and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
☐Yes x☐ No ☐NA (Please explain.) Comments:

The GRO field surrogate, trifluorotoluene, failed to meet the lower recovery limit in the trip blank. The case narrative noted that the volume of methanol in the trip blank may have been less than the 25mL noted as the volume, which would affect the percent recovery.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO result for trip blank 081714-1 is flagged QL for quality issue with potential low bias.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

While the surrogate recoveries on a trip blank may indicate potential impact to data quality, the likely loss of methanol would impact the surrogate recovery.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): <u>Water and Soil</u>

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x ☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes x□ No □NA (Please explain.) Comments:

Ethylbenzene, toluene, m,p and o-xylene and GRO were detected in the trip blank at concentrations greater than their respective LOQs and greatly higher than any sample concentration. The trip blank contamination is not explainable at such high concentrations.

iv. If above PQL, what samples are affected?
Comments:

All three samples submitted in this work order had results flagged for trip blank contamination. Etheylbenzene and GRO were not detected in any samples. Xylenes and toluene were detected and results were flagged.

v. Data quality or usability affected? (Please explain.)
Comments:

While the trip blank results bring the BTEX results into question, the results can still be used to demonstrate that the MI sample locations do not contain target analytes above their respective cleanup levels.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

No field replicates were submitted under this work order but they were collected on the subsequent MI sampling and met frequency requirements.

ii. Submitted blind to lab?
□Yes □ No □xNA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

□Yes □ No □xNA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Not applicable, no field replicates were submitted with this work order.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/6/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45739-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □xYes □ No □NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No x□NA (Please explain.) Comments:

      Samples were shipped to and analyzed by TA-Tacoma

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x□Yes □ No □NA (Please explain.) Comments:

   b. Correct analyses requested?
      x□Yes □ No □NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x□Yes □ No □NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The laboratory report narrative noted that sample container 14NC10SS047-MSD had a smudged label, likely from methanol leakage. There were 3 jars submitted for this sample and sufficient methanol remained in the other 2 containers to perform analyses without incident. The container with the smudged label was not used for analysis.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The sampling time for the trip blank on the CoC (Trip Blank 093014-1) did not match the sample time on the container. This does not affect holding times or reporting as there is no true collection time as the trip blanks are prepared in the laboratory prior to shipping out the empty sample containers for sample collection.

e. Data quality or usability affected? (Please explain.)

Comments:

Data quality was not affected as there was sufficient sample methanol in the other containers to perform the analyses.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The 8260 CCV had trichlorofluoromethane exceed the upper calibration limit. All samples were ND for trichlorotrifluoromethane so results were reported without qualification. The minimum response factor for 2-butanone (MEK) and acetone were outside of acceptance criteria for the CCV. The sample results were ND for these 2 analytes so results were reported without qualification.

The 8260 MS/MSD on sample 14NC10SS047 failed the meet the upper acceptance criteria. The parent sample result was ND so no flags were assigned.

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes without qualification. Nearly all results were ND.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. All applicable holding times met?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. All soils reported on a dry weight basis?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

☐Yes ☐x No ☐NA (Please explain.) Comments:

Ten (10) VOC analytes had limit of detections (LODs) greater than cleanup levels in at least two samples. Four of these analytes had been identified in the QAPP as having LODs greater than cleanup levels. The other 6 analytes had higher reporting limits due to low mass in the initial sample as well as a relatively high percent moisture, which also decreases the amount of sample mass on a dry weight basis.

e. Data quality or usability affected?

Comments:

While it was known that some non-detect analytes would be reported above the cleanup level at the LOD, the additional analytes, including some target analytes, still would be detected at the DL.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. All method blank results less than PQL?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. If above PQL, what samples are affected?

Comments:

NA

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

☐Yes ☐ No x☐NA (Please explain.) Comments:

The MB was ND

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for VOC analysis only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes ☐x No ☐NA (Please explain.) Comments:

The MSD failed to meet the upper recovery limit for tetrachloroethene.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NO sample results were affected. The MS/MSD parent sample result was ND for tetrachloroethene so results are not affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No x□NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to spiked sample recovery accuracy and precision.

c. Surrogates – Organics Only

i. xAre surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x□Yes □ No □NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No x□NA (Please explain.) Comments:

All surrogate recoveries met control limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x□Yes □ No □NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

x □Yes □ No □NA (Please explain.) Comments:

iii. All results less than PQL?
□Yes x□ No □NA (Please explain.) Comments:

1,1 dichloroethene was detected in the trip blank at less than the LOQ and 2 samples (field duplicates), with one above the LOQ and one below the LOQ. Methylene chloride was detected in the trip blank at a concentration nearly 100 times the cleanup level, it was not in any project samples. Toluene was detected in the method blank and the 2 field duplicates at concentrations less than the LOQ and greatly less than any cleanup levels for toluene.

iv. If above PQL, what samples are affected?
Comments:

1,1, dichloroethene and toluene results for 14NC10SS045 and –SS046 (field duplicates) are B flagged

v. Data quality or usability affected? (Please explain.)
Comments:

The blank contamination is lessening the degree of accuracy and definitive proof that 1,2 dichloroethene is actually present at the site. However, PCE and TCE were both detected in the drum contents at Site 10 and 1,1 DCE is a breakdown product of both PCE and TCE so it is probable it is present at the site at concentrations above the cleanup level.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x□Yes □ No □NA (Please explain.) Comments:

One set of field duplicates, 14NC10SS045 and -10SS046, were submitted with this SDG.

ii. Submitted blind to lab?
x□Yes □ No □NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Field replicate results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment.

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>

a. Defined and appropriate?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/8/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-45740-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

      Samples were received and analyzed by TA-Tacoma

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The trip blank container listed a collection time of 1000 and the CoC listed a time of 1500. The trip blank was logged in at 1000 per the CoC. Holding time was not affected.

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MSD on sample 14NCMOCMI004 failed to meet the lower recovery limit. The DRO MB had reportable concentrations at less than half the LOQ at 2.91 mg/kg

c. Were all corrective actions documented?

☐Yes ☐ No x☐NA (Please explain.) Comments:

No corrective actions were required. The DRO LCS/LCSD met accuracy and precision limits and the MB concentration did not affect sample results, which were greater than 10 times the MB DRO concentration.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Sample results are usable for project purposes with proper qualification for out of control QC (MSD).

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
      Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

The DRO MB had reportable concentrations at less than half the LOQ at 2.91 mg/kg.

      iii. If above PQL, what samples are affected?
      Comments:

All sample results were greater than 10 times the MB concentration so no flagging was necessary.

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

See above

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to method blank analysis and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were submitted for POL analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

☐Yes x☐ No ☐NA (Please explain.) Comments:

The DRO MSD failed to meet the lower recovery limit.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

x☐Yes ☐ No ☐NA (Please explain.) Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Only sample 14NCMOCMI004 was affected by the low MSD recovery and its DRO result is flagged QL for quality issue with potential low bias.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The parent DRO result for the MSD is flagged QL.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

Sample results are usable for project purposes with qualification for the low MSD with respect to spiked sample analysis and reporting.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
☐Yes ☐ No x☐NA (Please explain.) Comments:

All surrogates met recovery limits.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate recoveries and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
x☐Yes ☐ No ☐NA (Please explain.) Comments:

Only one cooler was submitted with this work order.

iii. All results less than PQL?
☐Yes ☐x No ☐NA (Please explain.) Comments:

Toluene was detected in the trip blank at a concentration well over the LOQ. Ethylbenzene, m,p and o-xylene was also detected in the trip blank at concentrations less than their LOQs.

iv. If above PQL, what samples are affected?

Comments:

Most BTEX analytes were ND in the samples. Sample 14NCMOCMI004 had toluene detected and it is B flagged. 14NCMOCMI006 had m,p-xylenes detected and those results are B flagged.

v. Data quality or usability affected? (Please explain.)

Comments:

While a contaminated trip blank lowers the accuracy of the sample results, all results are well below cleanup levels and the results can be used to demonstrate that remaining soil is not impacted by excavation and bagging activities at the MOC.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of field replicates, 14NCMOCMI004, -MI005, and –MI006, were submitted with this SDG

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

Samples were MI samples with 2 replicates. Most results were ND. DRO and RRO met the 30% RSD limit for MI field replicates.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate/replicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

Samples were collected with disposable sampling equipment.

□Yes □ No x□NA (Please explain.) Comments:

i. All results less than PQL?

□Yes □ No x□NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      x□Yes □ No □NA (Please explain.) Comments:

Laboratory Data Review Checklist

Completed by: Marty Hannah

Title: Project Chemist Date: 1/8/15

CS Report Name: 2014 NE Cape HTRW Remedial Action Report Report Date: December 2014

Consultant Firm: Bristol Environmental Remediation Services

Laboratory Name: TestAmerica Laboratory Report Number: 580-46105-1

ADEC File Number: ADEC RecKey Number:

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      ☐Yes ☐ No x☐NA (Please explain.) Comments:

   Samples were initially received by TA-Anchorage and forwarded for analysis by TA-Tacoma. TA-Anchorage is not a DoD accredited lab and only served as a receipt laboratory. The samples were always intended to be analyzed by TA-Tacoma.

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. Correct analyses requested?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

   Samples were initially received by TA-Anchorage with a cooler temp at 3.6 degrees C and were forwarded to TA-Tacoma for analysis where they were received with a cooler temperature at -2.2 degrees C and a temperature blank at 4.4 degrees C. The narrative noted that no samples appeared to be frozen and analysis proceeded without incident or impact on sample results.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The GRO/VOC MI samples were collected in 8 oz. Teflon lined sample jars. The sample receipt noted that methanol had smudged the labels indicating that some sample preservative had been lost. The AK101/GRO field surrogate in the GRO/VOC samples met control limits. Sample results were ND for both VOCs and GRO so results were not impacted by likely methanol loss.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

☐Yes ☐x No☐NA (Please explain.) Comments:

e. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes without qualification with respect to sample receipt conditions.

4. Case Narrative

a. Present and understandable?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

b. Discrepancies, errors or QC failures identified by the lab?

X Yes ☐ No ☐NA (Please explain.) Comments:

VOC surrogate 4-bromofluorobenzene had recoveries in 2 samples and the LCS exceed the upper control limit, results were ND so no flags were assigned. The VOC MS had m,p-xylenes recover at less than the lower control limit. The GRO MS had recoveries exceed the upper control limit, the parent sample result for 14NCCBMI003 was ND for GRO so no flags were assigned. The DRO MB had reportable concentrations at less than half the LOQ, all sample results except one were affected as the sample concentrations were less than 10 times the MB concentrations and B flags were assigned to project samples with DRO concentrations at less than 10 times the DRO MB concentration. The DRO MS had recoveries at less than the lower acceptance limit. The DRO result for the parent sample is flagged QL. The percent moisture duplicate exceeded the RPD on sample 14NCCBMI002.

c. Were all corrective actions documented?
☐Yes x☐ No ☐NA (Please explain.) Comments:

No corrective actions were required.

d. What is the effect on data quality/usability according to the case narrative?
Comments:

Sample results are usable for project purposes with proper qualification for out of control QC.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   b. All applicable holding times met?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   c. All soils reported on a dry weight basis?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

   e. Data quality or usability affected?
   Comments:

Sample results are usable for project purposes without qualification with respect to sample documentation, holding times and reporting limits.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

      ii. All method blank results less than PQL?
      x☐Yes ☐ No ☐NA (Please explain.) Comments:

DRO was detected in the method blank at 4.91 mg/Kg, which is less than half the LOQ.

iii. If above PQL, what samples are affected?

Comments:

Nearly all samples in this work order were affected as all project sample DRO concentrations were less than 10 times the MB concentration.

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

x□Yes □ No □NA (Please explain.) Comments:

All DRO sample results except for 14NCCBMI005 were B flagged for blank contamination at a concentration less than 10 times the method blank conentration.

v. Data quality or usability affected? (Please explain.)

Comments:

Sample results are usable for project purposes with above noted qualification with respect to method blank analyses and reporting.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

x□Yes □ No □NA (Please explain.) Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

□Yes □ No x□NA (Please explain.) Comments:

Samples were submitted for organic analyses only.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

□Yes x□ No □NA (Please explain.) Comments:

The VOC MS had m,p-xylenes recover at less than the lower control limit. The GRO MS had recoveries exceed the upper control limit, the parent sample result was ND for GRO so no flags were assigned. The DRO MS had recoveries at less than the lower acceptance limit. The DRO result for the parent sample is flagged QL.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

□Yes x□ No □NA (Please explain.) Comments:

The percent moisture duplicate exceeded the RPD on sample 14NCCBMI002.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments:

While some of the QC was outside of control limits, the only flag assigned was QL to the DRO parent sample for the low MS recovery.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□xYes □ No □NA (Please explain.) Comments:

Noted above

vii. Data quality or usability affected? (Use comment box to explain.)
Comments:

Sample results are usable for project purposes with the above noted qualification for the low MS recovery on sample 14NCCBMI003.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
x□Yes □ No □NA (Please explain.) Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
□Yes x□ No □NA (Please explain.) Comments:

Two VOC samples had surrogate recoveries exceed the upper control limit as well as the VOC LCS

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes x□ No □NA (Please explain.) Comments:

NO flags were assigned as the surrogate exceeded the upper control limit and the sample results were ND so bias is moot.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

Sample results are usable for project purposes without qualification with respect to surrogate analyses and reporting.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
☐Yes x☐ No ☐NA (Please explain.) Comments:

The trip blank was inadvertently omitted from the sample shipment.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)
☐Yes ☐ No x☐NA (Please explain.) Comments:

The trip blank was accidentally omitted from the shipment.

iii. All results less than PQL?
☐Yes ☐ No x☐NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

While there is potential for impact from the trip blank omission, all sample results were ND for GRO and VOCs so results are not impacted and no flags were assigned.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
x☐Yes ☐ No ☐NA (Please explain.) Comments:

One set of MI field replicates, 14NCCBMI006, -MI007 and –MI008, were collected as part of the field QC.

ii. Submitted blind to lab?

x☐Yes ☐ No ☐NA (Please explain.) Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

x☐Yes ☐ No ☐NA (Please explain.) Comments:

The field replicates met RSD precision for DRO and RRO. GRO and VOCs (BTEX) were non-detect and could not be evaluated for precision.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Sample results are usable for project purposes without qualification with respect to field duplicate frequency and precision.

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No x☐NA (Please explain.) Comments:

Samples were collected with disposable sampling equipment

i. All results less than PQL?

☐Yes ☐ No x☐NA (Please explain.) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. <u>Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)</u>
   a. Defined and appropriate?
   x☐Yes ☐ No ☐NA (Please explain.) Comments:

ATTACHMENT 3

USACE Granted Variances

From: Utley, Michael D POA
To: Hannah, Marty
Subject: RE: Variance request from 580-44662-1 NE Cape HRTW 14-032 - Mobile Lab (UNCLASSIFIED)
Date: Thursday, August 07, 2014 2:04:00 PM

Classification: UNCLASSIFIED
Caveats: NONE

Variance granted.

-----Original Message-----
From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Thursday, July 31, 2014 2:40 PM
To: Utley, Michael D POA
Cc: Sweet, Jacob M POA
Subject: [EXTERNAL] FW: Variance request from 580-44662-1 NE Cape HRTW 14-032 - Mobile Lab

Hi Mike. I just talked to Jake and he said Sean was in Atka or Port Heiden and may not have cell or email depending. Bristol is requesting a variance for DRO method blank contamination at just over ½ the LOQ at 10.2 mg/kg. The cleanup level is 9200. Some samples are less than 10x the blank concentration. Results are used as a baseline in areas where stockpile liners will be placed. The locations will be resampled after the liner is removed.

Can we narrate and report?

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Hannah, Marty
Sent: Wednesday, July 30, 2014 10:56 AM
To: Benjamin, Sean P POA (Sean.P.Benjamin@usace.army.mil)
Subject: RE: Variance request from 580-44662-1 NE Cape HRTW 14-032 - Mobile Lab

Forgot to mention cleanup level is 9,200 mg/kg. Results will be used to determine if stockpiling activities adversely affect POL concentrations in surface soil.

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Hannah, Marty
Sent: Wednesday, July 30, 2014 10:45 AM
To: Benjamin, Sean P POA (Sean.P.Benjamin@usace.army.mil)
Subject: FW: Variance request from 580-44662-1 NE Cape HRTW 14-032 - Mobile Lab

Bristol is requesting a variance for a DRO detection in the method blank. Some results are less than 10 the blank concentration and will be flagged accordingly. The samples and their results are used to

evaluate surface soil before stockpile liners are placed on the ground.

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Wednesday, July 30, 2014 10:41 AM
To: Hannah, Marty
Subject: Variance request from 580-44662-1 NE Cape HRTW 14-032 - Mobile Lab

Hi Marty,

There was a detection in the method blank at 10.5, the LOQ is 20, so the hit is just over 1/2 the LOQ. All of the samples have detections though less than 10xs the LOQ except for 2 samples. Can we narrate and report or would you like them re-extracted?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [110829]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

From:	Sharp-Dahl, Julie
To:	Sean Benjamin
Cc:	Jacob Sweet; Mike Utley (michael.d.utley@usace.army.mil); Hannah, Marty
Bcc:	Melissa Armstrong
Subject:	FW: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP
Date:	Wednesday, August 06, 2014 2:16:00 PM
Attachments:	COC 580-44676 (201407281239).pdf

Hi Sean,

Please see the lab's request for a variance below. The sample is an ash sample from incinerating the camp trash, and the data will be used for waste disposal purposes.

Please grant the variance.

Thanks Sean.
Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Wednesday, August 06, 2014 1:00 PM
To: Sharp-Dahl, Julie; Hannah, Marty; Jarrell, Greg
Cc: Allen, Kristine
Subject: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP

The lab has asked for a variance regarding the TCLP 8270 analysis. CCV failed low at -21.3% for 2,4,6-Trichlorophenol, samples are ND. A reporting limit standard was analyzed and the target analyte was detected. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111296]
Attachments: 1

From: Utley, Michael D POA
To: Hannah, Marty
Subject: RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)
Date: Friday, September 05, 2014 8:25:44 AM

Classification: UNCLASSIFIED
Caveats: NONE

OK, OK...variance granted.

Mike

-----Original Message-----
From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Thursday, September 04, 2014 2:52 PM
To: Utley, Michael D POA
Cc: Benjamin, Sean P POA
Subject: [EXTERNAL] FW: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Per Melissa below it was the opening CCV. Though the CCV was low by 1.3% for 2,4,6-trichlorophenol it would still be capable of detection below the LOQ. Again, the results will be used for waste characterization and disposal purposes only. 2,4,6 trichlorophenol regulatory level for being considered hazardous is 2.0 mg/L by TCLP. The sample was ND with an LOD of 1 ug/L, 2000 times lower than the regulatory limit. LOQ 3, ug/L. Can we get a variance so we can report it? We still have to profile the waste before it can be moved off island.

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013
Direct : (907) 743-9369

-----Original Message-----
From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Thursday, September 04, 2014 2:35 PM
To: Hannah, Marty
Cc: Torres, Terri
Subject: RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Hi Marty,

This was the opening CCV. They did run a closing CCV and it did pass. We can report this as well, though will need to know.

Regards,

MELISSA ARMSTRONG
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East
Tacoma, WA 98424
Tel 253.922.2310 l Direct 253.248.4975
www.testamericainc.com

-----Original Message-----
From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Thursday, September 04, 2014 2:44 PM
To: Armstrong, Melissa
Cc: Torres, Terri
Subject: FW: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

I'm trying to get a variance for 44676-1 for the low CCV for 2,4,6-trichlorophenol and Utley has asked me if it was an opening or closing CCV that failed or if it was both. Can you let me know as soon as you get a chance so we can hopefully get a variance and get this puppy reported? I'm back in the office for the foreseeable future so please contact me if you have any questions or outlying issues and I will do my best to resolve them quickly. Thanks, Marty

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013 Direct : (907) 743-9369

-----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Thursday, September 04, 2014 1:39 PM
To: Hannah, Marty
Cc: Benjamin, Sean P POA; Sharp-Dahl, Julie
Subject: RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Was that an initial or final CCV?

-----Original Message-----
From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Thursday, September 04, 2014 1:30 PM
To: Utley, Michael D POA
Cc: Benjamin, Sean P POA; Sharp-Dahl, Julie
Subject: [EXTERNAL] RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Hi Mike and Sean. I'm back in the office and coming up to speed on everything that Julie Sharp-Dahl was handling while I was out in the field. Apparently we never received a variance for reporting the 8270 TCLP results with a low closing CCV for 2,4,6-Trichlorophenol, SDG 580-44676-1. The results will be used for waste characterization and disposal only. Trichlorophenol has not been a target analyte at NE Cape at all and has never been detected in any samples. The samples were collected from the camp incinerator ash and boot wash decon at a PCB
site. Can we get a variance for this? The lab hasn't generated a final
report and is waiting for the outcome of the variance request.
Analytical holding times have expired.

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013 Direct : (907) 743-9369

-----Original Message-----
From: Sharp-Dahl, Julie
Sent: Thursday, August 07, 2014 3:24 PM
To: Utley, Michael D POA
Cc: Sweet, Jacob M POA; Hannah, Marty; Benjamin, Sean P POA; Jarrell, Greg
Subject: RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Hi Mike,

I was thinking that since the data will be used by the waste disposal company and our waste guy says the disposal facility will accept this data so I don't think the low CCV is a problem. I totally understand what you are saying though! Low CCV means we could have missed seeing it. Please note that the CCV is only out of the allowed +/-20% by -1.3%.

I'd like to back up my lack of concern with the fact the ash was generated from burning camp trash and that it would be unlikely that 2,4,6-Trichlorophenol would be present. Per the website EPA.gov, this stuff is no longer used in the US - "It was previously used as an antiseptic; a pesticide for wood, leather, and glue preservation; and as an anti-mildew treatment. It was also used in the manufacture of other chemicals a as a fungicide, herbicide, insecticide, antiseptic, defoliant, and glue preservative."

I hope this information is helpful to you in making your decision.
Please let me know what you decide.

Thanks for your time Mike!

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

-----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Thursday, August 07, 2014 3:10 PM
To: Sharp-Dahl, Julie
Cc: Sweet, Jacob M POA; Hannah, Marty; Benjamin, Sean P POA
Subject: RE: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Julie,

With a CCV failure, biased low, and ND results - don't you think that should be re-run? Even given that a RL standard was run, we don't know when the instrument started to fail, so our samples could have been negatively impacted.

What are your thoughts?

Mike

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Wednesday, August 06, 2014 2:16 PM
To: Benjamin, Sean P POA
Cc: Sweet, Jacob M POA; Utley, Michael D POA; Hannah, Marty
Subject: [EXTERNAL] FW: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP

Hi Sean,

Please see the lab's request for a variance below. The sample is an ash sample from incinerating the camp trash, and the data will be used for waste disposal purposes.

Please grant the variance.

Thanks Sean.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Wednesday, August 06, 2014 1:00 PM
To: Sharp-Dahl, Julie; Hannah, Marty; Jarrell, Greg
Cc: Allen, Kristine
Subject: Variance request from 580-44676-1 NE Cape HTRW - Method 8270 TCLP

The lab has asked for a variance regarding the TCLP 8270 analysis. CCV failed low at -21.3% for 2,4,6-Trichlorophenol, samples are ND. A reporting limit standard was analyzed and the target analyte was detected. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111296]
Attachments: 1

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contact the sender and destroy all copies of the original document.

Classification: UNCLASSIFIED
Caveats: NONE

From:	Sharp-Dahl, Julie
To:	Sean Benjamin
Cc:	Jacob Sweet; Mike Utley (michael.d.utley@usace.army.mil); Hannah, Marty
Subject:	FW: Variance request NE Cape - methylene chloride hits for 580-44702-1
Date:	Tuesday, August 05, 2014 11:27:00 AM

Hi Sean,

I had the wrong email address for you and this bounced back. I have additional information from the lab: There are detections in all the samples, though less than 10xs the detection in the method blank.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Sharp-Dahl, Julie
Sent: Monday, August 04, 2014 4:24 PM
To: Sean Benjamin
Cc: Mike Utley (michael.d.utley@usace.army.mil); Jacob Sweet; Hannah, Marty
Subject: Variance request NE Cape - methylene chloride hits for 580-44702-1

Hi Sean,

Bristol is requesting a variance for methylene chloride in the method blank in SDG 580-44702-1. Please see email from the lab PM below.

The concentration of methylene chloride detected is higher than the 16 µg/kg cleanup level for soil. The 5 samples (plus 1 QC duplicate) were collected from Site 10 from specific areas/former sample locations that contained DRO greater than 9,200 mg/kg in 1994 -1995. The samples were collected from 0.5 – 1.0 feet bgs.

Thanks. Please call or email with questions. Marty is out of the office this week, so I am filling in for him.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713
jsharp-dahl@bristol-companies.com
http://www.bristol-companies.com/

From: Crupi, Steve [mailto:Steve.Crupi@TestAmericainc.com]
Sent: Monday, August 04, 2014 3:36 PM
To: Hannah, Marty; Armstrong, Melissa
Cc: Sharp-Dahl, Julie
Subject: RE: methylene chloride hits for 580-44702-1

Hi Marty,

Yes, it looks to me like a variance is needed. Methylene chloride is detected in the associated

method blank at 21.4 ppb. The DL and RL are 12 and 25 ppb, respectively. Please consider this email as a request for variance. Thanks!

Steve

FYI – I will be out of the office August 20 – 27, returning August 28th.

STEVE CRUPI
Project Manager
Pacific Northwest

TestAmerica
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Tel 253.922-2310 (main) x112

-and-

2000 W. International Airport Road, Suite A-10
Anchorage, AK 99502
Tel 907.563.9200 (main)

www.testamericainc.com

From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Monday, August 04, 2014 2:15 PM
To: Armstrong, Melissa
Cc: Crupi, Steve; Sharp-Dahl, Julie
Subject: methylene chloride hits for 580-44702-1

I'm headed to Pt. Lay in the morning and Julie Sharp-Dahl is going to cover for me while I'm in the field. I was looking at prelims for 580-44702-1 and saw the methylene chloride results were B flagged. Are we going to need a variance request for this? If so, could you send it on and CC Julie so I can go through the procedures for a variance request with her?

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W.16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713
mhannah@bristol-companies.com
http://www.bristol-companies.com/

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disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender and destroy all copies of the original document.

From: Utley, Michael D POA
To: Sharp-Dahl, Julie
Subject: RE: Variance request NE Cape - methylene chloride hits for 580-44702-1 (UNCLASSIFIED)
Date: Tuesday, August 12, 2014 10:00:12 AM

Classification: UNCLASSIFIED
Caveats: NONE

It's too late to rerun or recollect these, right?

We have MeCl hits over cleanup, albeit with blank contamination. ADEC still won't let us close the site.

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Tuesday, August 12, 2014 8:35 AM
To: Utley, Michael D POA; Benjamin, Sean P POA
Cc: Sweet, Jacob M POA; Hannah, Marty
Subject: [EXTERNAL] RE: Variance request NE Cape - methylene chloride hits for 580-44702-1 (UNCLASSIFIED)

HI Mike,

No, didn't get answer on this one yet.

Here's the issue: Methylene chloride is detected in the associated method blank at 21.4 ppb (the DL and RL are 12 and 25 ppb, respectively). The concentration of methylene chloride detected is higher than the 16 µg/kg cleanup level for soil. There are detections in all the samples, though less than 10xs the detection in the method blank.

The 5 project samples (plus 1 QC duplicate) were collected from Site 10 from specific areas/former sample locations that contained DRO greater than 9,200 mg/kg in 1994 -1995. The samples were collected from 0.5 - 1.0 feet bgs.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

-----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Monday, August 11, 2014 4:59 PM
To: Sharp-Dahl, Julie; Benjamin, Sean P POA
Cc: Sweet, Jacob M POA; Hannah, Marty
Subject: RE: Variance request NE Cape - methylene chloride hits for 580-44702-1 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Did you get this resolved? What type of samples are these?

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Tuesday, August 05, 2014 11:28 AM
To: Benjamin, Sean P POA
Cc: Sweet, Jacob M POA; Utley, Michael D POA; Hannah, Marty
Subject: [EXTERNAL] FW: Variance request NE Cape - methylene chloride hits for 580-44702-1

Hi Sean,

I had the wrong email address for you and this bounced back. I have additional information from the lab: There are detections in all the samples, though less than 10xs the detection in the method blank.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

From: Sharp-Dahl, Julie
Sent: Monday, August 04, 2014 4:24 PM
To: Sean Benjamin
Cc: Mike Utley (michael.d.utley@usace.army.mil); Jacob Sweet; Hannah, Marty
Subject: Variance request NE Cape - methylene chloride hits for 580-44702-1

Hi Sean,

Bristol is requesting a variance for methylene chloride in the method blank in SDG 580-44702-1. Please see email from the lab PM below.

The concentration of methylene chloride detected is higher than the 16 µg/kg cleanup level for soil. The 5 samples (plus 1 QC duplicate) were collected from Site 10 from specific areas/former sample locations that contained DRO greater than 9,200 mg/kg in 1994 -1995. The samples were collected from 0.5 - 1.0 feet bgs.

Thanks. Please call or email with questions. Marty is out of the office this week, so I am filling in for him.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713
jsharp-dahl@bristol-companies.com
http://www.bristol-companies.com/

From: Crupi, Steve [mailto:Steve.Crupi@TestAmericainc.com]
Sent: Monday, August 04, 2014 3:36 PM
To: Hannah, Marty; Armstrong, Melissa
Cc: Sharp-Dahl, Julie
Subject: RE: methylene chloride hits for 580-44702-1

Hi Marty,

Yes, it looks to me like a variance is needed. Methylene chloride is detected in the associated method blank at 21.4 ppb. The DL and RL are 12 and 25 ppb, respectively. Please consider this email as a request for variance. Thanks!

Steve

FYI - I will be out of the office August 20 - 27, returning August 28th.

STEVE CRUPI

Project Manager

Pacific Northwest

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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2000 W. International Airport Road, Suite A-10

Anchorage, AK 99502

Tel 907.563.9200 (main)

www.testamericainc.com <blocked::http://www.testamericainc.com/>

From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Monday, August 04, 2014 2:15 PM
To: Armstrong, Melissa
Cc: Crupi, Steve; Sharp-Dahl, Julie
Subject: methylene chloride hits for 580-44702-1

I'm headed to Pt. Lay in the morning and Julie Sharp-Dahl is going to cover for me while I'm in the field. I was looking at prelims for 580-44702-1 and saw the methylene chloride results were B flagged. Are we going to need a variance request for this? If so, could you send it on and CC Julie so I can go through the procedures for a variance request with her?

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
111 W.16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713
mhannah@bristol-companies.com
http://www.bristol-companies.com/

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contact the sender and destroy all copies of the original document.

Classification: UNCLASSIFIED
Caveats: NONE

From:	Utley, Michael D POA
To:	Sharp-Dahl, Julie; Benjamin, Sean P POA
Cc:	Sweet, Jacob M POA
Subject:	RE: Variance request from 580-44702-1 NE Cape HTRW - AK101 (UNCLASSIFIED)
Date:	Thursday, August 07, 2014 3:10:52 PM

Classification: UNCLASSIFIED
Caveats: NONE

Variance granted.

Mike

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Wednesday, August 06, 2014 2:12 PM
To: Benjamin, Sean P POA
Cc: Sweet, Jacob M POA; Utley, Michael D POA
Subject: [EXTERNAL] FW: Variance request from 580-44702-1 NE Cape HTRW - AK101

Hi Sean,

Please see the lab's request for a variance below. These samples were all collected from Site 10 from historical areas where contaminants were detected in the 1990's. Cleanup level for GRO is 300 mg/kg.

Please grant the variance.

Thanks Sean.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Wednesday, August 06, 2014 1:16 PM
To: Jarrell, Greg; Sharp-Dahl, Julie; kris.allen@testamericainc.com; Hannah, Marty
Subject: Variance request from 580-44702-1 NE Cape HTRW - AK101

The lab has asked for a variance for the AK101 analysis. There was a detection in the method blank at 2.5 with an LOQ of 4.0, so just above 1/2 the LOQ. Sample has a detection at 21, so just less than 10xs. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111300]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

From:	Sharp-Dahl, Julie
To:	Melissa Armstrong
Cc:	James, Russell; Hannah, Marty
Subject:	FW: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)
Date:	Monday, August 18, 2014 11:23:42 AM

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013
-----Original Message-----
From: Sharp-Dahl, Julie
Sent: Thursday, August 14, 2014 2:52 PM
To: 'Utley, Michael D POA'
Cc: Jarrell, Greg; James, Russell; Hannah, Marty; Sweet, Jacob M POA; Benjamin, Sean P POA
Subject: RE: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Thanks Mike.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

-----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Thursday, August 14, 2014 2:25 PM
To: Sharp-Dahl, Julie
Cc: Jarrell, Greg; James, Russell; Hannah, Marty; Sweet, Jacob M POA; Benjamin, Sean P POA
Subject: RE: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks. Variance granted. (Just trying to be sure we still have good data - you understand...)

Mike

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 1:41 PM
To: Utley, Michael D POA
Cc: Jarrell, Greg; James, Russell; Hannah, Marty; Sweet, Jacob M POA; Benjamin, Sean P POA
Subject: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Mike,

Please see the information Melissa provided regarding the variance request for pyrene.
The cleanup level for pyrene in soil is 1,000 mg/kg.

Please let me know if you need additional information to make your decision.

Thank you.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

-----Original Message-----
From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Thursday, August 14, 2014 12:32 PM
To: Sharp-Dahl, Julie
Cc: James, Russell; Jarrell, Greg; Hannah, Marty
Subject: RE: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

MB hit was 3.11 ug/Kg, so well below 1/10 the clean up level. Results vary between 3 and 10 ug/Kg, there is a sample with a detection of 21 as well.

Regards,

MELISSA ARMSTRONG
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East
Tacoma, WA 98424
Tel 253.922.2310 l Direct 253.248.4975
www.testamericainc.com

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 1:19 PM
To: Armstrong, Melissa
Cc: James, Russell; Jarrell, Greg; Hannah, Marty
Subject: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Hi Melissa,

Please see Mike's Q below.
I haven't seen the results at all. Can you please tell me the ~range of detections, and the highest detection for the pyrene results, as well as the concentration of the blank contamination?

The cleanup level for pyrene in soil is 1,000 mg/kg. I don't think we'll have an issue. I just need to give Mike the info.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013 -----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Thursday, August 14, 2014 12:13 PM
To: Sharp-Dahl, Julie
Subject: RE: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

How do the sample results compare to the cleanup level in the samples discussed below?

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 10:54 AM
To: Utley, Michael D POA
Cc: Jarrell, Greg; James, Russell; Sweet, Jacob M POA; Benjamin, Sean P POA; Hannah, Marty; Melissa Armstrong
Subject: [EXTERNAL] FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270

Hi Mike,

The lab has requested a variance for pyrene by 8270. These samples are confirmation samples from the Site 10 excavation.

We had discussed the fact that the PCB and PAH SIM analysis were performed at the W Sac lab as they could meet a 5-d TAT (Denver could only meet a 10-d TAT). See attached email.

Thanks

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Thursday, August 14, 2014 10:31 AM
To: Jarrell, Greg; Sharp-Dahl, Julie; Hannah, Marty; James, Russell
Subject: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270

The lab has asked for a variance for the 8270 analysis. Pyrene exceeded
1/2 the LOQ but still below the LOQ in the Method Blank. Samples are "J"
qualified or have detections. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111774]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

From:	Utley, Michael D POA
To:	Sharp-Dahl, Julie
Cc:	Jarrell, Greg; James, Russell; Hannah, Marty; Sweet, Jacob M POA; Benjamin, Sean P POA
Subject:	RE: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)
Date:	Thursday, August 14, 2014 2:25:32 PM

Classification: UNCLASSIFIED
Caveats: NONE

Thanks. Variance granted. (Just trying to be sure we still have good data - you understand...)

Mike

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 1:41 PM
To: Utley, Michael D POA
Cc: Jarrell, Greg; James, Russell; Hannah, Marty; Sweet, Jacob M POA; Benjamin, Sean P POA
Subject: [EXTERNAL] FW: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Mike,

Please see the information Melissa provided regarding the variance request for pyrene.
The cleanup level for pyrene in soil is 1,000 mg/kg.

Please let me know if you need additional information to make your decision.

Thank you.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

-----Original Message-----
From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Thursday, August 14, 2014 12:32 PM
To: Sharp-Dahl, Julie
Cc: James, Russell; Jarrell, Greg; Hannah, Marty
Subject: RE: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

MB hit was 3.11 ug/Kg, so well below 1/10 the clean up level. Results vary between 3 and 10 ug/Kg, there is a sample with a detection of 21 as well.

Regards,

MELISSA ARMSTRONG
Project Manager

TestAmerica
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5755 8th Street East
Tacoma, WA 98424
Tel 253.922.2310 I Direct 253.248.4975

www.testamericainc.com

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 1:19 PM
To: Armstrong, Melissa
Cc: James, Russell; Jarrell, Greg; Hannah, Marty
Subject: Mike Utley Q - FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270 (UNCLASSIFIED)

Hi Melissa,

Please see Mike's Q below.
I haven't seen the results at all. Can you please tell me the ~range of detections, and the highest detection for the pyrene results, as well as the concentration of the blank contamination?

The cleanup level for pyrene in soil is 1,000 mg/kg. I don't think we'll have an issue. I just need to give Mike the info.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013 -----Original Message-----
From: Utley, Michael D POA [mailto:Michael.D.Utley@usace.army.mil]
Sent: Thursday, August 14, 2014 12:13 PM
To: Sharp-Dahl, Julie
Subject: RE: Variance Request from 580-44802-1 NE Cape HTRW - Method
8270 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

How do the sample results compare to the cleanup level in the samples discussed below?

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 14, 2014 10:54 AM
To: Utley, Michael D POA
Cc: Jarrell, Greg; James, Russell; Sweet, Jacob M POA; Benjamin, Sean P POA; Hannah, Marty; Melissa Armstrong
Subject: [EXTERNAL] FW: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270

Hi Mike,

The lab has requested a variance for pyrene by 8270. These samples are confirmation samples from the Site 10 excavation.

We had discussed the fact that the PCB and PAH SIM analysis were performed at the W Sac lab as they could meet a 5-d TAT (Denver could only meet a 10-d TAT). See attached email.

Thanks

Julie Sharp-Dahl

Senior Project Manager
Bristol Environmental Remediation Services, LLC Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Thursday, August 14, 2014 10:31 AM
To: Jarrell, Greg; Sharp-Dahl, Julie; Hannah, Marty; James, Russell
Subject: Variance Request from 580-44802-1 NE Cape HTRW - Method 8270

The lab has asked for a variance for the 8270 analysis. Pyrene exceeded 1/2 the LOQ but still below the LOQ in the Method Blank. Samples are "J" qualified or have detections. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111774]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

Armstrong, Melissa

From: Kleppin, Lyndsey [lkleppin@bristol-companies.com]
Sent: Wednesday, August 06, 2014 3:52 PM
To: Barnhill, Eric; Armstrong, Melissa; Hannah, Marty
Cc: James, Russell; Allan, Julie; Seattle - Sample Control
Subject: RE: Sample Shipment

Melissa, please note the COC emailed to you is the correct COC. The physical COC inside the sample cooler indicates glycol as an analyte for samples 14NCWELLSS15 and 14NCWELLSS16. Glycol should **not** be analyzed for these or any other samples in COC 080614-3.
Please let me know if you have any questions.

Thank you!

Lyndsey Kleppin
Staff Geologist
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Barnhill, Eric
Sent: Wednesday, August 06, 2014 2:07 PM
To: Armstrong, Melissa; Kleppin, Lyndsey; Hannah, Marty
Cc: James, Russell; Allan, Julie; Seattle - Sample Control
Subject: Sample Shipment

Melissa,
We are shipping three coolers of soil samples via Goldstreak. The Air Waybill is: 1168 4643. The samples are due in Seattle at 6:15 in the morning.
Attached are the COCs for one of the coolers that contains arsenic soil and some drum waste samples. Lyndsey Kleppin will forward the remaining COC (s).

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From:	Utley, Michael D POA
To:	Armstrong, Melissa; Benjamin, Sean P POA
Cc:	Hannah, Marty; Sharp-Dahl, Julie
Subject:	RE: Variance request from 580-44831-1 NE Cape HTRW - Method 8260 (UNCLASSIFIED)
Date:	Monday, August 11, 2014 4:30:13 PM

Classification: UNCLASSIFIED
Caveats: NONE

Since the TCLP limit is 200 ug/L, and the result is below that, I think we're OK allowing this variance.

Mike

-----Original Message-----
From: Armstrong, Melissa [mailto:Melissa.Armstrong@testamericainc.com]
Sent: Monday, August 11, 2014 4:25 PM
To: Utley, Michael D POA; Benjamin, Sean P POA
Cc: Hannah, Marty; Sharp-Dahl, Julie
Subject: [EXTERNAL] FW: Variance request from 580-44831-1 NE Cape HTRW - Method 8260

The lab has asked for a variance in regards to the 8260 analysis. There was a hit of Vinyl Chloride, a contaminant of concern in the method blank at greater than 1/2 the LOQ but below the LOQ. Sample contained a detection at 62 ug/L and the MB detection was 0.626 ug/L. The results will be used for waste characterization only of site 10. Bristol has granted permission for you to correspond directly with me as both Marty and Julie do not have email access currently.

Regards,

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [111589]
Attachments: 1

Classification: UNCLASSIFIED
Caveats: NONE

From: Utley, Michael D POA
To: Sharp-Dahl, Julie
Subject: RE: Variance request from 580-44894-1 NE Cape 2014 (UNCLASSIFIED)
Date: Thursday, August 21, 2014 11:54:55 AM

Classification: UNCLASSIFIED
Caveats: NONE

I did a double take when I read "matrix interference" on a CCV....then I realized it was probably a later CCV and the column was impacted by the samples, leading to a surrogate failure for the CCV.

Since the sample surrogates met recovery limits (and presumably the analytes did in the affected CCV, except for the indicated surrogate), Variance accepted.

Mike

-----Original Message-----
From: Sharp-Dahl, Julie [mailto:jsharp-dahl@bristol-companies.com]
Sent: Thursday, August 21, 2014 11:48 AM
To: Utley, Michael D POA
Cc: Hannah, Marty; Jarrell, Greg; James, Russell; Melissa Armstrong
Subject: [EXTERNAL] FW: Variance request from 580-44894-1 NE Cape 2014

Hi Mike,

TestAmerica is asking for a variance for the NE Cape samples listed on the attached COC. Please see the lab's explanation of the QC failure below. The sample results were non-detect and the surrogates passed.

These samples were collected from exploratory test pits excavated in order to determine the presence or absence of PCBs in this location.

Julie Sharp-Dahl
Senior Project Manager
Bristol Environmental Remediation Services, LLC
Phone : (907) 563-0013

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Thursday, August 21, 2014 11:11 AM
To: Jarrell, Greg; Sharp-Dahl, Julie; Hannah, Marty; James, Russell
Subject: Variance request from 580-44894-1 NE Cape 2014

In reviewing the data there was a CCV failure for the Decachlorobiphenyl (DCB) surrogate that recovered at -22%D. Data was analyzed twice, both failing recovery, leading to indicate matrix interference. Can we narrate and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com <http://www.testamericainc.com>

Reference: [112186]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

From:	Utley, Michael D POA
To:	Hannah, Marty
Cc:	Benjamin, Sean P POA
Subject:	RE: Variance Request from 580-45122-1 NE Cape 2014 - Method 8270 (UNCLASSIFIED)
Date:	Monday, September 29, 2014 11:15:40 AM

Classification: UNCLASSIFIED
Caveats: NONE

Variance granted.

Mike

-----Original Message-----
From: Hannah, Marty [mailto:mhannah@bristol-companies.com]
Sent: Monday, September 29, 2014 10:24 AM
To: Benjamin, Sean P POA; Utley, Michael D POA
Subject: [EXTERNAL] FW: Variance Request from 580-45122-1 NE Cape 2014 - Method 8270

Variance request for 8270 analysis with slightly low internal standard. Samples are non-detect for analytes associated with the ISTD. Results are used for groundwater monitoring at the MOC. Can we get a variance?

Marty Hannah
Project Chemist/Environmental Scientist
Bristol Environmental Remediation Services, LLC
Phone : (907) 743-9369

From: Armstrong, Melissa [mailto:melissa.armstrong@testamericainc.com]
Sent: Monday, September 29, 2014 10:21 AM
To: Hannah, Marty
Subject: Variance Request from 580-45122-1 NE Cape 2014 - Method 8270

Hi Marty,

I am trying to wrap up job 580-45122 and I noticed that we need a variance for the 8270 analysis.

Perylene-d12 internal standard (ISTD) response for sample 14NCMOCGW03 (580-45122-3) was outside of acceptance limits. The ISTD had 49.2% recovery relative to the ICIS level 7 reference calibration standard, and 50% is the acceptable recovery threshold. The sample was non-detect for targets associated with this ISTD, therefore unaffected by high bias associated with low ISTD recovery. Can we narrate this and report?

Regards,

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback
<http://secure.testamericainc.com/snaponline/s.asp?k=140312408469>

MELISSA A ARMSTRONG
Project Manager II

TestAmerica Seattle
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 253.248.4975
www.testamericainc.com

Reference: [114365]
Attachments: 1

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Classification: UNCLASSIFIED
Caveats: NONE

ATTACHMENT 4

Laboratory Certifications

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TESTAMERICA LABORATORIES SACRAMENTO

880 Riverside Parkway
West Sacramento, CA 95605
Karla Buechler Phone: 916 373 5600

ENVIRONMENTAL

Valid To: January 31, 2016 Certificate Number: 2928.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with ISO IEC 17025:2005, the 2003 NELAC Chapter 5 Standard, and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 4.2 of the DoD Quality Systems Manual for Environmental Laboratories) accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies

Inductively Coupled Plasma (ICP), ICP-Mass Spectroscopy, Atomic Absorption Spectroscopy (flame), Gas Chromatography(GC), GC- Mass Spectroscopy, High Resolution Gas Chromatography/High Resolution Mass Spectroscopy, Liquid Chromatography(LC),LC- Mass Spectroscopy, Ion Chromatography, Spectrophotometry, Misc.- Electronic Probes

Parameter/Analyte	**Program: Solid/Hazardous Waste Matrix: Non-Potable Water**	**Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials**	**Air**
Metals			
Aluminum	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Antimony	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Arsenic	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Barium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Beryllium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Boron	EPA 6010B/6020/6010C/6020A	EPA 6010B/6020/6010C/6020A	-------
Cadmium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Calcium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Chromium (Total)	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Chromium (Hexavalent)	EPA 7196A	EPA 7196A	-------
Cobalt	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Copper	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Iron	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Lead	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Magnesium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Manganese	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Mercury	EPA 7470A	EPA 7471A	-------
Molybdenum	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Nickel	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Phosphorus	EPA 6020/6020A	EPA 6020/6020A	-------
Potassium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Selenium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Silica	EPA 6010B/6010C	-------	-------
Silicon	EPA 6010B/6010C	-------	-------
Silver	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Sodium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Strontium	EPA 6020/6020A	EPA 6020/6020A	-------
Thallium	EPA 6010B/6020 6010C/6020A	EPA 6010B/6020 6010C/6020A	EPA 6020/6020A
Thallium	EPA 6010B/6020	EPA 6010B/6020	EPA 6020/6020A
Tin	EPA 6010B/6020/6010C/6020A	EPA 6010B/6020/6010C/6020A	-------
Titanium	EPA 6010B/6020/6010C/6020A	EPA 6010B/6020/6010C/6020A	-------
Uranium	EPA 6020/6020A	EPA 6020/6020A	-------
Vanadium	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Zinc	EPA 6010B/6010C/6020//6020A	EPA 6010B/6010C/6020//6020A	EPA 6020/6020A
Nutrients			
Nitrate	EPA 353.2/9056A/300.0	EPA 353.2/ 9056A/300.0	-------
Nitrate-nitrite	EPA 353.2	EPA 353.2	-------
Nitrite	EPA 353.2/9056A/300.0	EPA 353.2/9056A/300.0	-------
Orthophosphate	EPA 9056A/300.0	EPA 9056A/300.0	-------
Wet Chemistry			
Alkalinity	SM 2320B (1997)	-------	-------
Chemical Oxygen Demand	EPA 410.4	-------	-------
Oil and Grease	EPA 1664A/9070	EPA 1664A/9071	-------
Nitrocellulose	WS-WC-0050	WS-WC-0050	-------
Perchlorate	EPA 6850	EPA 6850	-------
pH	EPA 9040B/9040C	EPA 9040B/9040C	-------
Bromide	EPA 9056A/300.0	EPA 9056A/300.0	-------
Chloride	EPA 9056A/300.0	EPA 9056A/300.0	-------
Fluoride	EPA 9056A/300.0	EPA 9056A/300.0	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Sulfate	EPA 9056A/300.0	EPA 9056A/300.0	-------
Solids, Total	SM2540B (1997)	-------	-------
Solids, Total Suspended	SM2540D (1997)	-------	-------
Solids, Total Dissolved	SM2540C (1997)	-------	-------
%Moisture	-------	ASTM D2216	
TSP (Total Suspended Particulate)	-------	-------	40CFR Part 50 App B
PM10	-------	-------	40CFR Part 50 App J
Hazardous Waste Characteristics			
TCLP Extractables	-------	EPA 1311	-------
TCLP Inorganics	-------	EPA 1311	-------
Purgeable Organics			
(volatiles)			
1,1,1,2-Tetrachloroethane	EPA 8260B/8260C	EPA 8260B/8260C	-------
1,1,1-Trichloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1,2,2-Tetrachloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1,2-Trichloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-2-Trichloro-1,2-2-trifluorethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-Dichloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-Dichloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-Dichloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-Dichloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,1-Dichloropropene	EPA 8260B/8260C	EPA 8260B/8260C	-------
1,2,3-Trichlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2,3-Trichloropropane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2,4-Trichlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2,4-Trimethylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2-Dibromo-3-chloropropane	EPA 8260B/8260C	EPA 8260B/8260C	-------
1,2-Dibromoethane	EPA 8260B/8260C	EPA 8260B/8260C	-------
1,2-Dichlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2-Dichloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,2-Dichloropropane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,3,5-Trimethylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,3-Dichlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,3-Dichloropropane	EPA 8260B/8260C	EPA 8260B/8260C	-------
1,4-Dichlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
1,4-Dioxane	-------	-------	TO14A/TO15

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
1-Chlorocyclohex ane	EPA 8260B/8260C	EPA 8260B/8260C	-------
2,2-Dichloropropane	EPA 8260B/8260C	EPA 8260B/8260C	-------
2-Butanone (MEK)	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
2-Chlorotoluene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
2-Hexanone (MBK)	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
2-Methyl-2-propanol (tert-Butyl Alcohol,(TBA)	-------	-------	TO14A/TO15
4-Chlorotoluene	EPA 8260B/8260C	EPA 8260B/8260C	-------
4-Ethyltoluene	-------	-------	TO14A/TO15
4-Isopropyltoluene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
4-Methyl-2-pentanone (MIBK)	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Acetone	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Acrolein	-------	-------	TO14A/TO15
Allyl Chloride	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Alpha Methyl Styrene	-------	-------	TO14A/TO15
Benzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
Benzyl chloride	-------	-------	TO14A/TO15
Bromobenzene	EPA 8260B/8260C	EPA 8260B/8260C	-------
Bromochloromethane	EPA 8260B/8260C	EPA 8260B/8260C	-------
Bromodichloromethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Bromoform	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Bromomethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Butadiene (1,3-Butadiene)	-------	-------	TO14A/TO15
Butane	-------	-------	TO14A/TO15
Carbon disulfide	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; EPA 15/16
Carbon tetrachloride	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Chlorobenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Chlorodifluoromethane	-------	-------	TO14A/TO15
Chloroethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Chloroform	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Chloromethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
cis-1,2-Dichloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
cis-1,3-Dichloropropene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Cyclohexane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Dibromochloromethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Dibromomethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Dichlorodifluoromethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Dimethyl Disulfide	WS-MS-0003	WS-MS-0003	EPA 15/16
Ethyl acetate	-------	-------	TO14A/TO15
Ethylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
Ethylene Dibromide (EDB)	-------	-------	TO14A/TO15

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Ethylmethacrylate	EPA 8260B/8260C	EPA 8260B/8260C	-------
Hexachlorobutadiene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Hexane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Iodomethane	EPA 8260B/8260C	EPA 8260B/8260C	-------
Isobutanol	EPA 8260B/8260C	EPA 8260B/8260C	-------
Isooctane (2,2,4-Trimethylpentane)	-------	-------	TO14A/TO15
Isopropyl alcohol	-------	-------	TO14A/TO15
Isopropylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
m & p xylene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
Methyl tert-butyl ether (MTBE)	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
Methylene chloride	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Naphthalene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
n-Butanol	-------	-------	TO14A/TO15
n-Butylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
n-Heptane	-------	-------	TO14A/TO15
n-Nonane	-------	-------	TO14A/TO15
n-Octane	-------	-------	TO14A/TO15
n-Propylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Oxygenates	EPA 8260B/8260C	EPA 8260B/8260C	-------
o-xylene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
Pentane	-------	-------	TO14A/TO15
Propene	-------	-------	TO14A/TO15
sec-Butylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Styrene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
T-1,4-Dichloro-2-Butene	EPA 8260B/8260C	EPA 8260B/8260C	-------
tert-Butylbenzene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Tetrachloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Tetrahydrofuran	-------	-------	TO14A/TO15
Toluene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15; TO3
trans-1,2-Dichloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
trans-1,3-Dichloropropene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Trichloroethene	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Trichlorofluoromethane	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Vinyl acetate	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Vinyl bromide	-------	-------	TO14A/TO15
Vinyl chloride	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Xylenes, Total	EPA 8260B/8260C	EPA 8260B/8260C	TO14A/TO15
Hydrogen sulfide	-------	-------	EPA 15/16
Carbonyl sulfide	-------	-------	EPA 15/16

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Methanethiol (Methyl mercaptan)	-------	-------	EPA 15/16
Ethanethiol (Ethyl mercaptan)	-------	-------	EPA 15/16
Dimethyl sulfide	-------	-------	EPA 15/16
TPH as Gasoline	-------	-------	TO3
Carbon Dioxide	-------	-------	ASTM1946D /3C
Nitrogen	-------	-------	ASTM1946D /3C
Oxygen	-------	-------	ASTM1946D /3C
Helium	-------	-------	ASTM1946D /3C
Hydrogen	-------	-------	ASTM1946D /3C
Methane	-------	-------	ASTM1946D /3C
Gasoline Range Organics (GRO)	EPA 8260B/AK101MS	EPA 8260B/AK101MS	TO14A/TO15
TPH as Gasoline			TO3
Extractable Organics			
(semivolatiles)			
1,2,4,5-Tetrachlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,2,4-Trichlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,2-Dichlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,2-Diphenylhydrazine (as Azobenzene)	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,3-Dichlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,3-Dinitrobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1,4-Dichlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
1-Methylnaphthalene	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,3,4,6-Tetrachlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4,5-Trichlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4,6-Trichlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4-Dichlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4-Dimethylphenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4-Dinitrophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,4-Dinitrotoluene	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,6-Dichlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2,6-Dinitrotoluene	EPA 8270C/8270D	EPA 8270C/8270D	-------
2-Chloronaphthalene	EPA 8270C/8270D	EPA 8270C/8270D	-------
2-Chlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2-Methylnaphthalene	EPA 8270C/8270D/ WS-MS-0008 8270C-SIM/8270D-SIM	EPA 8270C/8270D/ WS-MS-0008 8270C-SIM/8270D-SIM	WS-MS-0006
2-Methylphenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
2-Naphthylamine	EPA 8270C/8270D	EPA 8270C/8270D	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
2-Nitroaniline	EPA 8270C/8270D	EPA 8270C/8270D	-------
2-Nitrophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
3&4-Methylphenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
3,3'-Dichlorobenzidine	EPA 8270C/8270D	EPA 8270C/8270D	-------
3-Nitroaniline	EPA 8270C/8270D	EPA 8270C/8270D	-------
4,6-Dinitro-2-methylphenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Bromophenyl phenyl ether	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Chloro-3-methylphenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Chloroaniline	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Chlorophenyl phenyl ether	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Nitroaniline	EPA 8270C/8270D	EPA 8270C/8270D	-------
4-Nitrophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
Acenaphthene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Acenaphthylene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Aniline	EPA 8270C/8270D	EPA 8270C/8270D	-------
Anthracene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzo(a)anthracene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzo(a)pyrene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzo(b)fluoranthene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzo(g,h,i)perylene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzo(k)fluoranthene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Benzoic acid	EPA 8270C/8270D	EPA 8270C/8270D	-------
Benzyl alcohol	EPA 8270C/8270D	EPA 8270C/8270D	-------
Benzyl butyl phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Biphenyl	EPA 8270C/8270D	EPA 8270C/8270D	-------
Bis(2-chloroethoxy) Methane	EPA 8270C/8270D	EPA 8270C/8270D	-------
Bis(2-chloroethyl) ether	EPA 8270C/8270D	EPA 8270C/8270D	-------
Bis(2-chloroisopropyl) ether	EPA 8270C/8270D	EPA 8270C/8270D	-------
Carbazole	EPA 8270C/8270D	EPA 8270C/8270D	-------
Chrysene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Bis (2-ethylhexyl) phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Diallate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Dibenz(a,h)anthracene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Dibenzofuran	EPA 8270C/8270D	EPA 8270C/8270D	-------
Diethyl Phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Dimethyl Phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Di-n-butyl phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Di-n-octyl phthalate	EPA 8270C/8270D	EPA 8270C/8270D	-------
Fluoranthene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Fluorene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Hexachlorobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
Hexachlorobutadiene	EPA 8270C/8270D	EPA 8270C/8270D	-------
Hexachlorocyclopentadiene	EPA 8270C/8270D	EPA 8270C/8270D	-------
Hexachloroethane	EPA 8270C/8270D	EPA 8270C/8270D	-------
Indeno(1,2,3-c,d)pyrene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Isophorone	EPA 8270C/8270D	EPA 8270C/8270D	-------
Naphthalene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Nitrobenzene	EPA 8270C/8270D	EPA 8270C/8270D	-------
n-Nitrosodimethylamine	EPA 8270C/8270D	EPA 8270C/8270D	-------
n-Nitrosodi-n-propylamine	EPA 8270C/8270D	EPA 8270C/8270D	-------
n-Nitrosodiphenylamine	EPA 8270C/8270D	EPA 8270C/8270D	-------
Pentachlorophenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
Phenanthrene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
Phenol	EPA 8270C/8270D	EPA 8270C/8270D	-------
Pyrene	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	EPA 8270C/8270D/8270C-SIM/8270D-SIM/WS-MS-0008	WS-MS-0006
1,4-Dioxane	WS-MS-0011	WS-MS-0011	-------
Diesel Range Organics (DRO)	EPA 8015B/8015D/AK102	EPA 8015B/8015D/AK102	-------
Residual Range Organics	AK103	AK103	-------
Dioxins			
2,3,7,8-TeCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,7,8-PeCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,4,7,8-HxCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,6,7,8-HxCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,7,8,9-HxCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
1,2,3,4,6,7,8-HpCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
OCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
2,3,7,8-TeCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,7,8-PeCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
2,3,4,7,8-PeCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,4,7,8-HxCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,6,7,8-HxCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,7,8,9-HxCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
2,3,4,6,7,8-HxCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,4,6,7,8-HpCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
1,2,3,4,7,8,9-HpCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
OCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total TCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total PeCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total HxCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total HeptaCDD	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total TCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total PeCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total HxCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Total HpCDF	EPA 8280A/8280B/8290/8290A/1613B	EPA 8280A/8280B/ 8290/8290A/1613B	-------
Chemical Warfare Degradates			
1,4-Dithiane	WS-MS-0003	WS-MS-0003	-------
Benzothiazole	WS-MS-0003	WS-MS-0003	-------
p-Chlorophenyl methylsulfide	WS-MS-0003	WS-MS-0003	-------
p-Chlorophenyl methylsulfoxide	WS-MS-0003	WS-MS-0003	-------
p-Chlorophenyl methylsulfone	WS-MS-0003	WS-MS-0003	-------
Chloropicrin	WS-MS-0003	WS-MS-0003	-------
Acetophenone	WS-MS-0003	WS-MS-0003	-------
2-Chloroacetophenone	WS-MS-0003	WS-MS-0003	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
1,4-Oxathiane	WS-MS-0003	WS-MS-0003	-------
Dimethyl Disulfide	WS-MS-0003	WS-MS-0003	EPA 15/16
Diisopropylmethylphosphate (DIMP)	WS-LC-0004	WS-LC-0004	-------
Dimethylmethylphosphonate (DMMP)	WS-LC-0004	WS-LC-0004	-------
Ethyl methylphosphonic acid (EMPA)	WS-LC-0004	WS-LC-0004	-------
Isopropyl methylphosphonic acid (IMPA)	WS-LC-0004	WS-LC-0004	-------
Methylphosphonic acid (MPA)	WS-LC-0004	WS-LC-0004	-------
Thiodiglycol (2,2'-Thiodiethanol) (TDG)	WS-LC-0004	WS-LC-0004	-------
Nitroaromatics			
2-Amino-4,6-dinitrotoluene	EPA 8330A/8330B	EPA 8330A/8330B	-------
4-Amino-2,6-dinitrotoluene	EPA 8330A/8330B	EPA 8330A/8330B	-------
3,5-Dinitroaniline	EPA 8330B	EPA 8330B	-------
1,3-Dinitrobenzene	EPA 8330A/8330B	EPA 8330A/8330B	-------
2,4-Dinitrotoluene	EPA 8330A/8330B	EPA 8330A/8330B	-------
2,6-Dinitrotoluene	EPA 8330A/8330B	EPA 8330A/8330B	-------
Glycerol trinitrate (Nitroglycerin)	EPA 8330B	EPA 8330B	-------
Hexahydro-1,3,5-trinitro-1,3,5-triazine (Hexogen)	EPA 8330A/8330B	EPA 8330A/8330B	-------
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330A/8330B	EPA 8330A/8330B	-------
Nitrobenzene	EPA 8330A/8330B	EPA 8330A/8330B	-------
2-Nitrotoluene (o-Nitrotoluene)	EPA 8330A/8330B	EPA 8330A/8330B	-------
3-Nitrotoluene (m-Nitrotoluene)	EPA 8330A/8330B	EPA 8330A/8330B	-------
4-Nitrotoluene (p-Nitrotoluene)	EPA 8330A/8330B	EPA 8330A/8330B	-------
Octahydro-1,3,5,7-tetranitro1,3,5,7-tetracine (Octogen)	EPA 8330A/8330B	EPA 8330A/8330B	-------
Picric acid	EPA 8330B	EPA 8330B	-------
Pentaerythritol tetranitrate	EPA 8330B	EPA 8330B	-------
1,3,5-Trinitrobenzene	EPA 8330A/8330B	EPA 8330A/8330B	-------
2,4,6-Trinitrotoluene	EPA 8330A/8330B	EPA 8330A/8330B	-------
Hexahydro-1,3-dinitroso-5-nitro-1,3,5,triazine (DNX)	EPA 8330A/8330B	EPA 8330A/8330B	-------
Hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX)	EPA 8330A/8330B	EPA 8330A/8330B	-------
1-Nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	EPA 8330A/8330B	EPA 8330A/8330B	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Nitroguanidine	WS-LC-0010	WS-LC-0010	-------
Nitrosamines			
N-Nitrosodimethyl amine (NDMA)	WS-MS-0012	WS-MS-0012	-------
Perfluoro Compounds			
Perfluorooctanoic acid	WS-LC-0025	WS-LC-0025	-------
Perfluorooctane sulfonate	WS-LC-0025	WS-LC-0025	-------
Perfluorobutyric acid (PFBA)	WS-LC-0025	-------	-------
Perfluoropentanoic acid (PFPA)	WS-LC-0025	-------	-------
Perfluorohexanoic acid (PFHxA)	WS-LC-0025	-------	-------
Perfluoroheptanoic acid (PFHpA)	WS-LC-0025	WS-LC-0025	-------
Perfluorononanoic acid (PFNA)	WS-LC-0025	WS-LC-0025	-------
Perfluorodecanoic acid (PFDA)	WS-LC-0025	-------	-------
Perfluoroundecanoic acid (PFUDA	WS-LC-0025	-------	-------
Perfluorododecanoic acid (PFDoDA)	WS-LC-0025	-------	-------
Perfluorobutane Sulfonate (PFBS)	WS-LC-0025	WS-LC-0025	-------
Perfluorohexane Sulfonate (PFHxS)	WS-LC-0025	WS-LC-0025	-------
Perfluoroheptane Sulfonate (PFHpS)	WS-LC-0025	-------	-------
Perfluorodecane Sulfonate (PFDS)	WS-LC-0025	-------	-------
Pesticides/PCBs			
Aldrin	EPA 8081A/8081B	EPA 8081A/8081B	-------
a-BHC	EPA 8081A/8081B	EPA 8081A/8081B	-------
b-BHC	EPA 8081A/8081B	EPA 8081A/8081B	-------
d-BHC	EPA 8081A/8081B	EPA 8081A/8081B	-------
g-BHC (Lindane)	EPA 8081A/8081B	EPA 8081A/8081B	-------
a-Chlordane	EPA 8081A/8081B	EPA 8081A/8081B	-------
g-Chlordane	EPA 8081A/8081B	EPA 8081A/8081B	-------
4,4'-DDD	EPA 8081A/8081B	EPA 8081A/8081B	-------
4,4'-DDE	EPA 8081A/8081B	EPA 8081A/8081B	-------
4,4'-DDT	EPA 8081A/8081B	EPA 8081A/8081B	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Dieldrin	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endosulfan I	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endosulfan II	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endosulfan sulfate	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endrin	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endrin aldehyde	EPA 8081A/8081B	EPA 8081A/8081B	-------
Endrin ketone	EPA 8081A/8081B	EPA 8081A/8081B	-------
Heptachlor	EPA 8081A/8081B	EPA 8081A/8081B	-------
Heptachlor epoxide	EPA 8081A/8081B	EPA 8081A/8081B	-------
Methoxychlor	EPA 8081A/8081B	EPA 8081A/8081B	-------
Toxaphene	EPA 8081A/8081B	EPA 8081A/8081B	-------
Chlordane (technical)	EPA 8081A/8081B	EPA 8081A/8081B	-------
PCB (Aroclors)			
PCB-1016	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1221	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1232	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1242	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1248	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1254	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1260	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1262	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB-1268	EPA 8082/8082A	EPA 8082/8082A	TO-4A/TO-10A
PCB (congeners) – removed references to BZ and IUPAC numbers.			
PCB 1	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 2	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 3	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 4	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 5	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 6	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 7	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 8	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 9	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 10	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 11	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 12	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 13	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
PCB 14	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 15	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 16	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 17	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 18	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 19	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 20	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 21	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 22	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 23	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 24	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 25	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 26	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 27	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 28	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 29	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 30	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 32	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 31	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 33	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 34	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 35	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 36	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 37	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 38	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 39	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 40	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 41	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 42	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 43	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 44	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 45	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 46	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 47	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 48	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 49	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 50	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 51	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 52	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 53	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 54	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 55	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
PCB 56	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 57	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 58	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 59	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 60	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 61	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 62	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 63	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 64	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 65	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 66	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 67	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 68	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 69	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 70	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 71	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 72	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 73	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 74	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 75	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 76	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 77	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 78	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 79	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 80	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 81	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 82	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 83	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 84	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 85	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 86	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 87	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 88	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 89	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 90	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 91	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 92	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 93	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 94	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 95	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 96	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 97	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
PCB 98	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 99	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 100	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 101	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 102	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 103	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 104	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 105	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 106	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 107	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 108	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 109	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 110	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 111	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 112	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 113	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 114	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 115	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 116	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 117	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 118	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 119	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 120	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 121	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 122	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 123	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 124	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 125	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 126	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 127	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 128	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 129	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 130	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 131	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 132	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 133	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 134	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 135	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 136	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 137	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 138	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 139	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
PCB 140	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 141	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 142	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 143	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 144	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 145	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 146	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 147	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 148	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 149	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 150	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 151	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 152	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 153	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 154	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 155	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 156	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 157	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 158	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 159	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 160	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 161	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 162	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 163	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 164	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 165	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 166	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 167	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 168	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 169	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 170	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 171	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 172	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 173	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 174	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 175	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 176	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 177	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 178	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 179	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 180	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 181	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
PCB 182	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 183	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 184	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 185	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 186	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 187	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 188	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 189	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 190	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 191	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 192	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 193	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 194	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 195	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 196	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 197	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 198	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 199	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 200	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 201	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 202	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 203	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 204	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 205	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 206	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 207	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 208	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
PCB 209	EPA 1668A mod/1668C mod	EPA 1668A mod/ 1668C mod	-------
Metals Digestion			
Acid Digestion Total Rcoverable or Dissolved Metals	EPA 3005A	-------	-------
Acid Digestion for Total Metals	EPA 3010A	-------	-------
Acid Digestion of Sediments, Sludges and Soils	-------	EPA 3050B	EPA 3050B
Organic Preparation Methods			
Separatory Funnel Liquid-Liquid Extraction	-------	EPA 3510C	-------
Ultrasonic Extraction	-------	EPA 3550B, EPA 3550C	-------
Waste Dilution	EPA 3580A	EPA 3580A	-------

Parameter/Analyte	Program: Solid/Hazardous Waste Matrix: Non-Potable Water	Program: Solid/Hazardous Waste Matrix: Solid/Chemical Materials	Air
Solid-Phase Extraction	EPA 3535A		-------
Volatiles Purge and Trap	EPA 5030B, EPA 5030C	EPA 5030B	-------
Volatiles Purge and Trap for Solids	-------	EPA 5035, EPA 5035A	-------
Semivolatiles in Air	-------	-------	EPA 3542 TO-13
Chemical Warfare Degradates (in solid)	-------	WS-OP-0005	-------
Organic Cleanup Procedures			
Florisil Cleanup	EPA 3620B, EPA3620C	EPA 3620B, EPA3620C	EPA 3620B, EPA3620C
Sulfur Cleanup	EPA 3660A	EPA 3660A	EPA 3660A
Sulfuric Acid Cleanup	EPA 3665A	EPA 3665A	EPA 3665A
Silica Gel Cleanup	EPA 3630C	EPA 3630C	-------

The American Association for Laboratory Accreditation

World Class Accreditation

Accredited DoD ELAP Laboratory

A2LA has accredited

TESTAMERICA LABORATORIES SACRAMENTO

West Sacramento, CA

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2005, the 2009 TNI Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 5.0 of the DoD Quality System Manual for Environmental Laboratories (QSM); accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION
CORPORATE SEAL 1978
DISTRICT OF COLUMBIA
A2LA

Presented this 14th day of May 2014.

President & CEO
For the Accreditation Council
Certificate Number 2928.01
Valid to January 31, 2016

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.

THE STATE OF ALASKA

Department of Environmental Conservation
Laboratory Certification Program

Certificate of Approval for Contaminated Sites Analysis

TestAmerica-Seattle

5755 8th Street East
Tacoma, WA 98424

UST-022

has complied with the provisions set forth in 18 AAC 78 and is hereby recognized by The Department of Environmental Conservation as **Interim Approved** for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective 3/4/2014, and expires 3/4/2015.

Patryce D. McKinney
State of Alaska Certification Authority

Shera Hickman
Laboratory Approval Officer

THE STATE OF ALASKA
Department of Environmental Conservation
Laboratory Approval Program

Scope of Approval

Expiration: 03/04/2015

TestAmerica-Seattle, WA UST-022
5755 8th Street East
Tacoma, WA 98424

is approved by the State of Alaska Department of Environmental Conservation, pursuant to 18 AAC 78, to perform analysis for the parameters listed below using the analytical methods indicated. Approval for all parameters is final. Approval is for the latest version of a method unless specified otherwise in a note. EPA refers to the U.S. Environmental Protection Agency. AK refers to Alaska Methods 101, 102 and 103 for the determination of gasoline, diesel and residual range organics in soil and water. ASTM refers to the American Society for Testing and Materials.

Contaminated Sites

Method/Test Name	Reference	Analyte	Matrix	Status
6010B	EPA	Total Arsenic	Soil	Approved
6010B	EPA	Total Barium	Soil	Approved
6010B	EPA	Total Cadmium	Soil	Approved
6010B	EPA	Total Chromium	Soil	Approved
6010B	EPA	Total Lead	Soil	Approved
6010B	EPA	Total Nickel	Soil	Approved
6010B	EPA	Total Vanadium	Soil	Approved
6010B	EPA	Total Arsenic	Water	Approved
6010B	EPA	Total Barium	Water	Approved
6010B	EPA	Total Cadmium	Water	Approved
6010B	EPA	Total Chromium	Water	Approved
6010B	EPA	Total Lead	Water	Approved
6010B	EPA	Total Nickel	Water	Approved
6010B	EPA	Total Vanadium	Water	Approved
6020	EPA	Total Arsenic	Soil	Approved
6020	EPA	Total Barium	Soil	Approved
6020	EPA	Total Cadmium	Soil	Approved
6020	EPA	Total Chromium	Soil	Approved
6020	EPA	Total Lead	Soil	Approved

Contaminated Sites

Method/Test Name	Reference	Analyte	Matrix	Status
6020	EPA	Total Nickel	Soil	Approved
6020	EPA	Total Vanadium	Soil	Approved
6020	EPA	Total Arsenic	Water	Approved
6020	EPA	Total Barium	Water	Approved
6020	EPA	Total Cadmium	Water	Approved
6020	EPA	Total Chromium	Water	Approved
6020	EPA	Total Lead	Water	Approved
6020	EPA	Total Nickel	Water	Approved
6020	EPA	Total Vanadium	Water	Approved
8021B	EPA	BTEX	Water	Approved
8082	EPA	Polychlorinated Biphenyls-PCB	Soil	Approved
8082	EPA	Polychlorinated Biphenyls-PCB	Water	Approved
8082-SV	EPA	Polychlorinated Biphenyls-PCB	Water	Approved
8260B	EPA	BTEX	Soil	Approved
8260B	EPA	Total Volatile Chlorinated Solvents	Soil	Approved
8260B	EPA	BTEX	Water	Approved
8260B	EPA	Total Volatile Chlorinated Solvents	Water	Approved
8270C	EPA	PAH	Soil	Approved
8270C	EPA	PAH	Water	Approved
8270C-SV	EPA	PAH-small volume by 3520C	Water	Approved
AK101	AK	Gasoline Range Organics	Soil	Approved
AK101	AK	Gasoline Range Organics	Water	Approved
AK101/8021B	EPA	BTEX-methanol preserved	Soil	Approved
AK102	AK	Diesel Range Organics	Soil	Approved
AK102	AK	Diesel Range Organics	Water	Approved
AK102-SV	AK	Diesel Range Organics-small volume	Water	Approved
AK103	AK	Residual Range Organics	Soil	Approved

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Environmental Conservation

Division of Environmental Health
Environmental Health Laboratory

5251 Dr Martin Luther King Jr Ave
Anchorage, AK 99507-1293
Main: (907) 375-8200
Fax: (907) 929-7335

7/25/2014

Terri Torres
TestAmerica-NE Cape Mobile Lab, NE Cape, AK
5755 8th Street East
Tacoma, WA 98466

Reference: 2015 ADEC Contaminated Sites Lab Approval-UST-113

Terri Torres:

Thank you for your application for State of Alaska Contaminated Sites (CS) Laboratory Approval. Based on a review of the materials received, and of those on file, your facility is approved to do work under the January 30, 2003 revision of AS 18 AAC 78.

TestAmerica-NE Cape is granted ***Full Approval*** to perform the analyses listed in the State of Alaska Scope of Accreditation for Alaska contaminated sites projects including UST/LUST.

Be aware that you must retain method detection limit (MDL) data on file for each method and instrument for which you are seeking approval under the AK CS Program. They may be subject to inspection at any time. Please remember your expiration date is 07/25/2015.

You must submit the required documentation for renewal no earlier than 90 days and no later than 30 days before your date of expiration. We must receive your application, fees, acceptable performance evaluation results, and the latest revision of your quality assurance manual during this window. Please remember to include your laboratory ID number, listed above, on ALL correspondence concerning your laboratory and on all data transmittals.

You may download a copy of the application from the following site:
<http://www.state.ak.us/dec/eh/lab/cs/csapproval.htm>

If you have any questions, please contact the certification officer at (907)375-8200 or at the following email address: declabcert@Alaska.gov.

Respectfully,

Shera Hickman
CS Lab Approval Officer

THE STATE OF ALASKA
Department of Environmental Conservation
Laboratory Approval Program

Scope of Approval

Expiration: 07/25/2015

TestAmerica-NE Cape Mobile UST-113

NE Cape, AK

is approved by the State of Alaska Department of Environmental Conservation, pursuant to 18 AAC 78, to perform analysis for the parameters listed below using the analytical methods indicated. Approval for all parameters is final. Approval is for the latest version of a method unless specified otherwise in a note. EPA refers to the U.S. Environmental Protection Agency. AK refers to Alaska Methods 101, 102 and 103 for the determination of gasoline, diesel and residual range organics in soil and water. ASTM refers to the American Society for Testing and Materials.

Contaminated Sites

Method/Test Name	Reference	Analyte	Matrix	Status
AK102	AK	Diesel Range Organics	Soil	Approved
AK103	AK	Residual Range Organics	Soil	Approved

THE STATE OF ALASKA

Department of Environmental Conservation
Laboratory Certification Program

Certificate of Approval for Contaminated Sites Analysis

TestAmerica – NE Cape, AK

NE Cape, AK

UST-113

has complied with the provisions set forth in 18 AAC 78 and is hereby recognized by The Department of Environmental Conservation as **Approved** for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective **7/25/2014**, and expires **7/25/2015**.

Patryce D. McKinney
State of Alaska Certification Authority

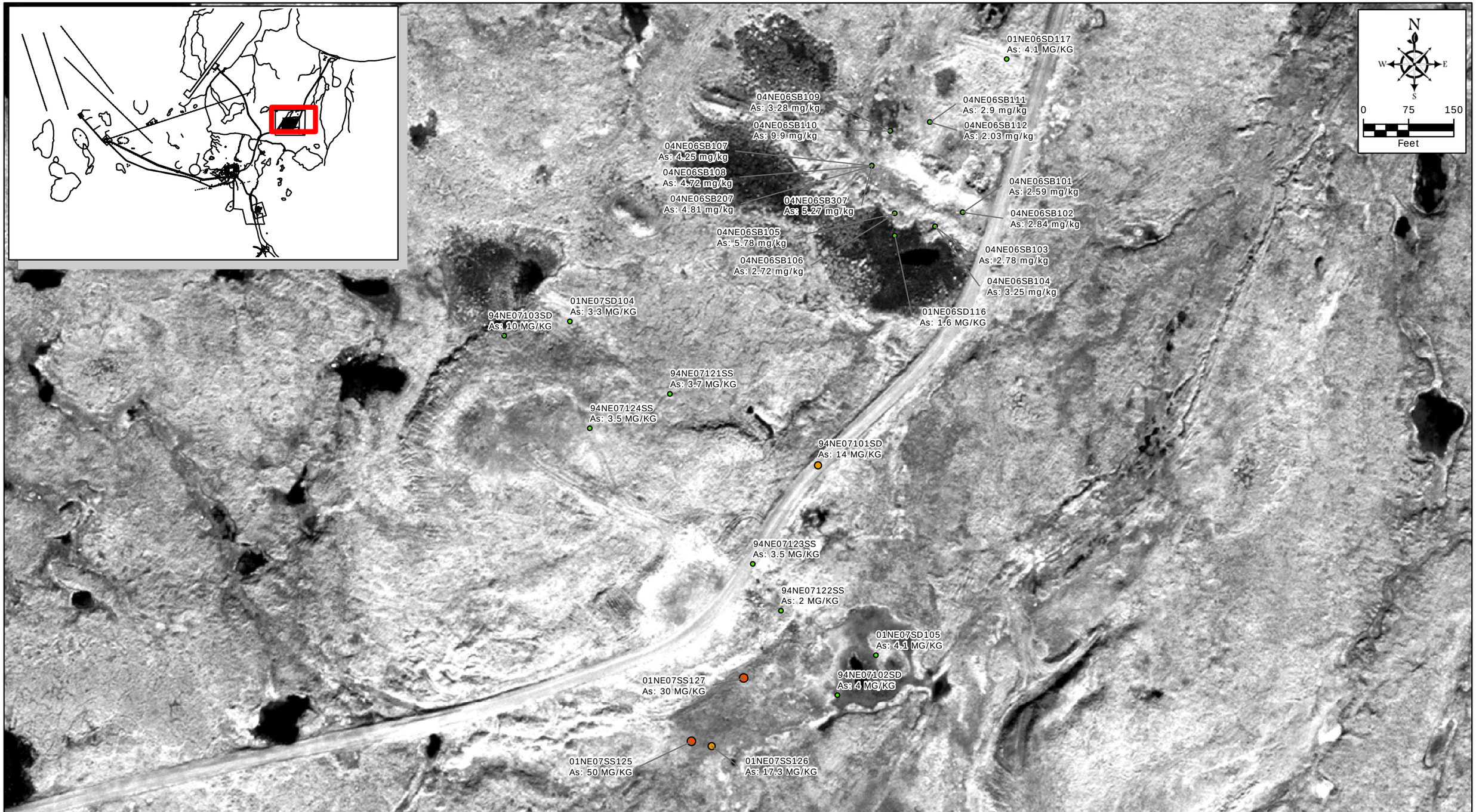
Shera Hickman
Contaminated Sites Approval Officer

APPENDIX J

NE Cape Historical Arsenic in Soil Maps

2011 Site 21 Technical Memorandum –
Background Arsenic Sampling for Site 21

NE Cape Historical Arsenic in Soil Maps



Legend

Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00 - 340.00

Figure J-1
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Locations at Northeast Cape
Sites 6 and 7

DATUM: NAD 83	DATE	3-17-15	SHEET 2 of 6
PROJECTION: ASP Zone 9	DWN.	BERS-RJ	
Project No. 34140087	SCALE	1"=150'	
	APPRVD.	BERS-GJ	

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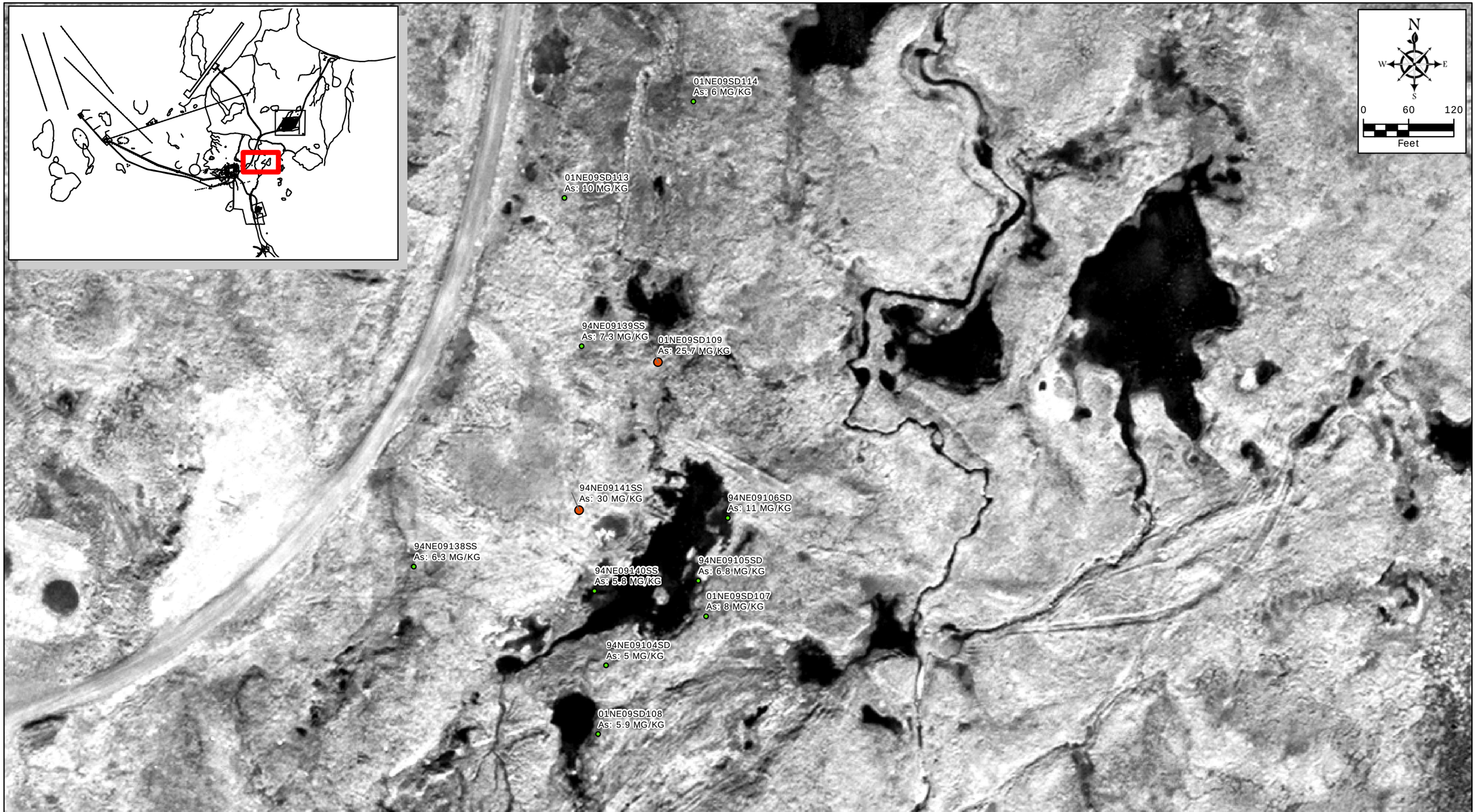


Legend

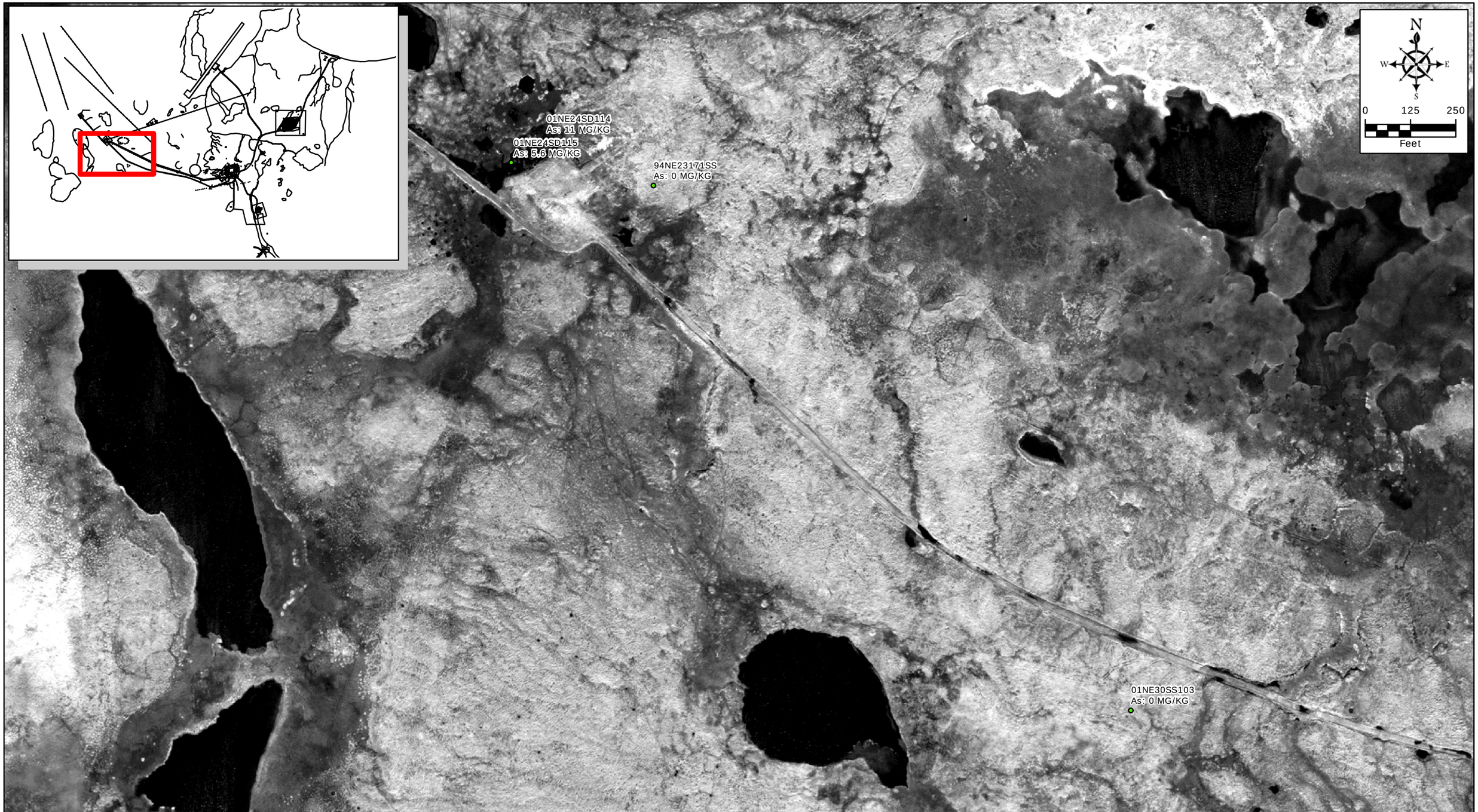
Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00- 340.00

Figure J-2
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Locations at Northeast Cape
Site 9

DATUM: NAD 83	DATE	03-17-15	SHEET 3 of 6
PROJECTION: ASP Zone 9	DWN.	BERS-RJ	
Project No. 34140087	SCALE	1"=120'	
	APPRVD.	BERS-GJ	

Document Path: G:\Jobs\34140087_Northeast_Cape\HTRW RA Report\MAPS\J-2.mxd



Legend

Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00 - 340.00

Figure J-3
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Locations at Northeast Cape
Sites 23, 24 and 30

DATUM: NAD 83	DATE	3-17-15	SHEET 4 of 6
PROJECTION: ASP Zone 9	DWN.	BERS-RJ	
Project No. 34140087	SCALE	1"=250'	
	APPRVD.	BERS-GJ	

Document Path: G:\Jobs\34140087_Northeast_Cape\HTRW RA Report\MAPS\J-3.mxd

Legend

Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00 - 340.00

Former Outfall

Site 21 Historical Excavation Extents

Topographic Contours (0.5 ft)

Figure J-4
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Locations at Northeast Cape
MOC and Site 21

DATUM: NAD 83	DATE	3-17-15	SHEET 5 of 6
PROJECTION: ASP Zone 9	DWN.	BERS-RJ	
Project No. 34140087	SCALE	1"=120'	
	APPRVD.	BERS-GJ	

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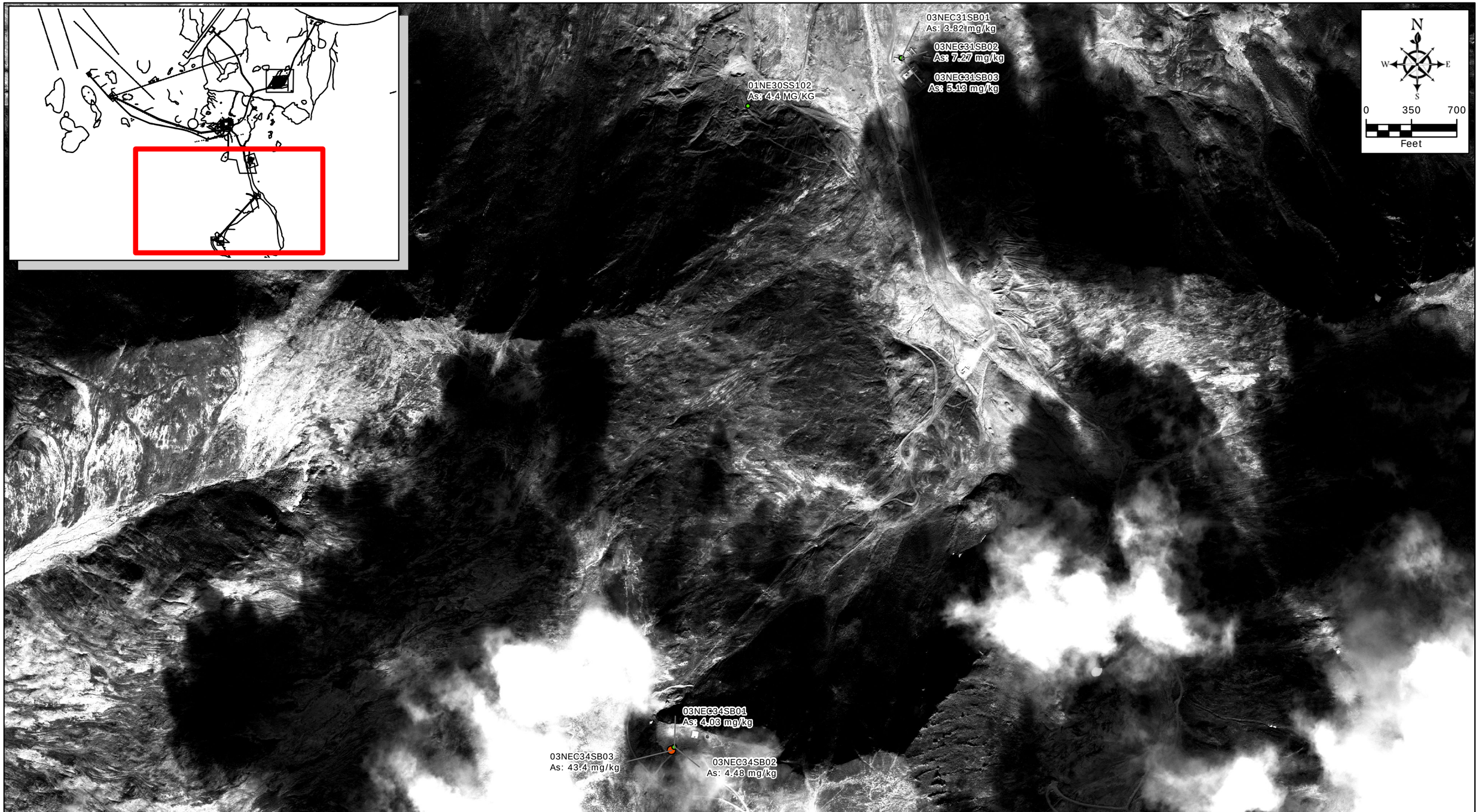

Legend

Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00 - 340.00

Figure J-5
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Locations at
Sites 30, 31 and 34

DATUM: NAD 83	DATE 3-17-15	SHEET 6 of 6
PROJECTION: ASP Zone 9	DWN. BERS-RJ	
Project No. 34140087	SCALE 1"=700'	
	APPRVD. BERS-GJ	

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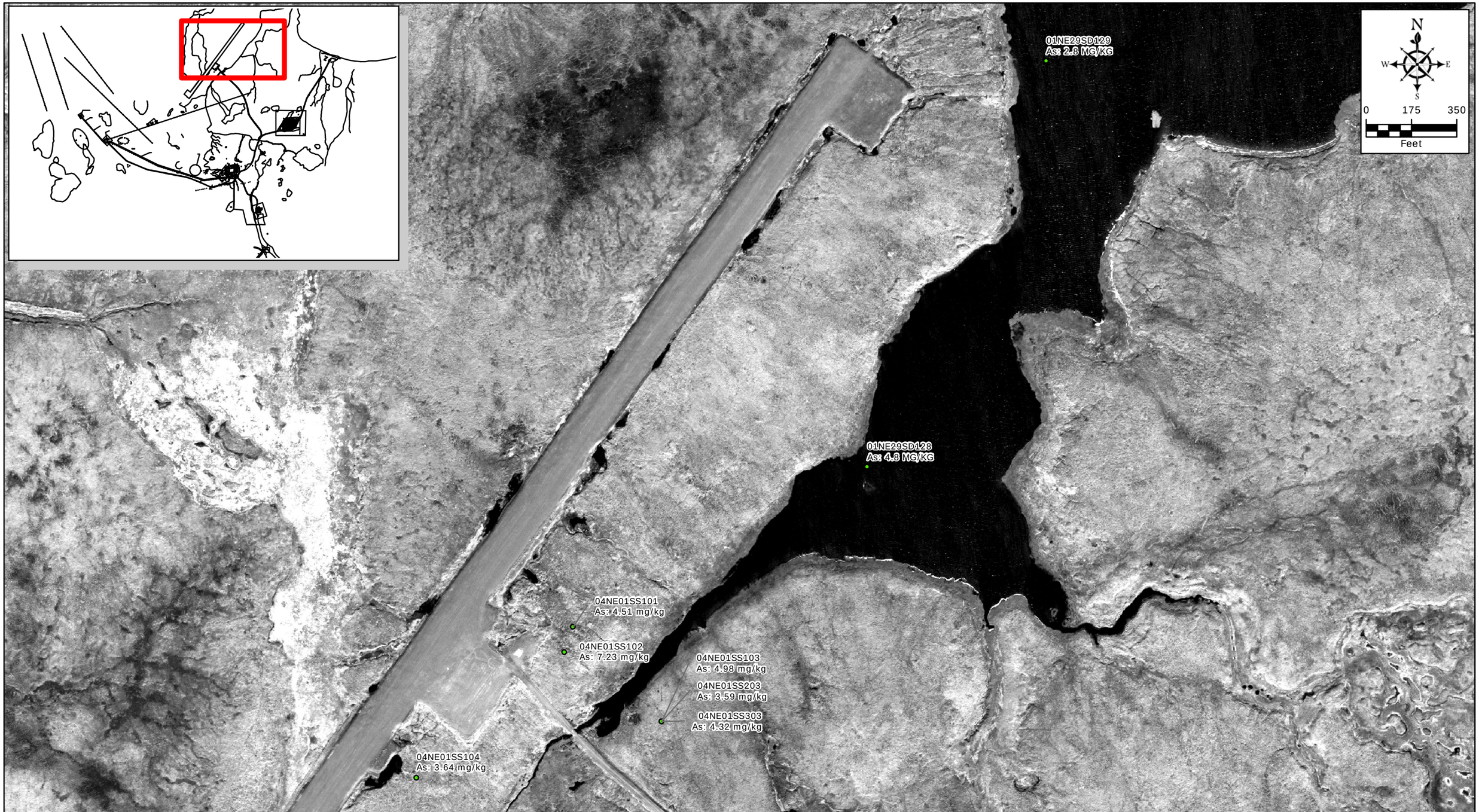

Legend

Arsenic Result (mg/kg)

- 0.00 - 11.00
- 11.00 - 20.00
- 20.00 - 50.00
- 50.00 - 100.00
- 100.00 - 340.00

Figure J-6
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Historical Arsenic Sample Results at Northeast Cape
Site 1 Sample Locations

DATUM: NAD 83	DATE	3-17-15	SHEET 1 of 6
PROJECTION: ASP Zone 9	DWN.	BERS-RJ	
Project No. 34140087	SCALE	1"=350'	
	APPRVD.	BERS-GJ	

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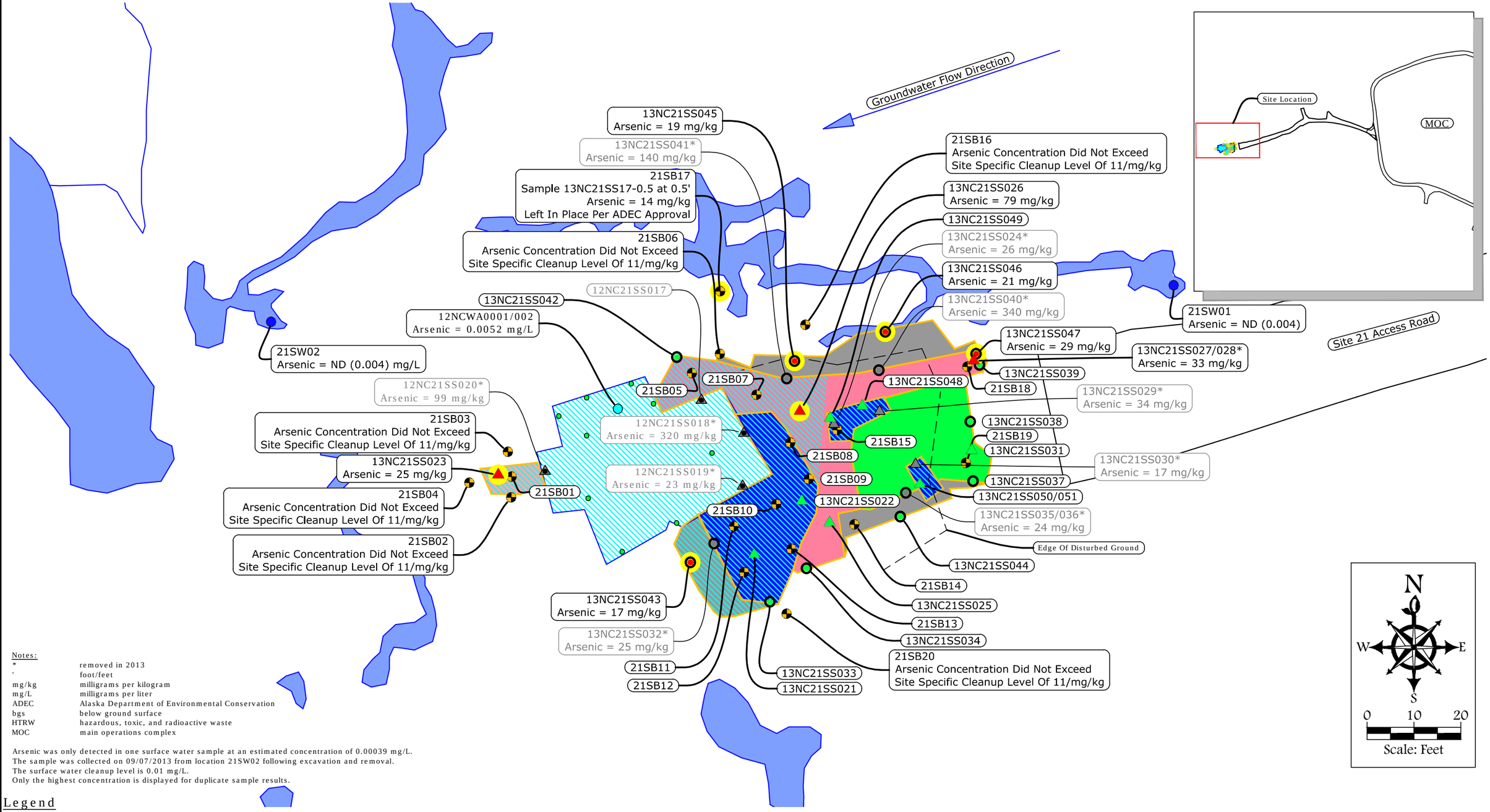


Notes:

*	removed in 2013
'	foot/feet
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
ADEC	Alaska Department of Environmental Conservation
bgs	below ground surface
HTRW	hazardous, toxic, and radioactive waste
MOC	main operations complex

Arsenic was only detected in one surface water sample at an estimated concentration of 0.00039 mg/L.
The sample was collected on 09/07/2013 from location 21SW02 following excavation and removal.
The surface water cleanup level is 0.01 mg/L.
Only the highest concentration is displayed for duplicate sample results.

Legend

- 2013 Floor Sample Location Where Arsenic Concentrations Exceeded 11 mg/kg (Points With Yellow Highlights Currently Remain On Site)
- 2013 Floor Sample Location Where Arsenic Concentrations Exceeded 11 mg/kg (Removed in 2013)
- 2013 Floor Sample Location Where Arsenic Concentrations Did Not Exceed 11 mg/kg
- 2013 Sidewall Sample Location Where Arsenic Concentrations Exceeded 11 mg/kg (Points With Yellow Highlights Currently Remain On Site)
- 2013 Sidewall Sample Location Where Arsenic Concentrations Did Not Exceed 11 mg/kg
- 2013 Sidewall Sample Location Where Arsenic Concentrations Exceeded 11 mg/kg (Removed in 2013)
- 2012 Sample Location Where Arsenic Concentrations Exceeded (Removed In 2013)
- 2013 Soil Boring Location
- 2013 Surface Water Sample Location
- 2012 Surface Water Sample Location
- 2012 Sample Location Where Arsenic Concentrations Did Not Exceed Site-Specific Cleanup Level of 11 mg/kg
- Sample Location Where Arsenic Remains in Concentrations Exceeding 11mg/kg
- Removal To 1.0' bgs (2013)
- Removal To 2.5' bgs (2013)
- Removal To 3.5' bgs (2013)
- Removal Limit (2012)
- Second Expansion (2013)
- Flooded Portion Of Removal Area
- Surface Water

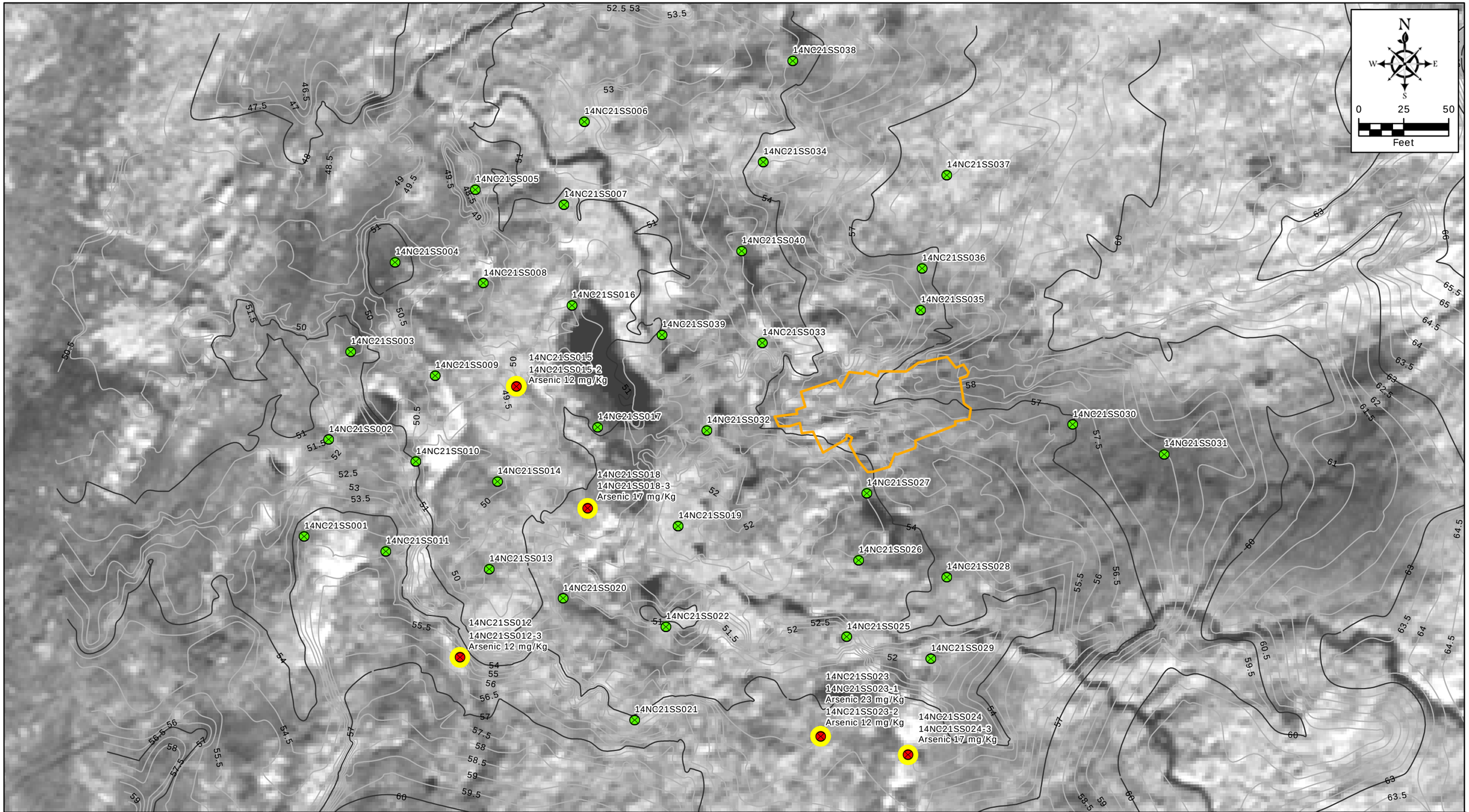
FIGURE J-7
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
SITE 21 EXCAVATION EXTENTS AND SAMPLE LOCATIONS

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC
Phone (907) 563-0013 Fax (907) 563-6713

DATUM: NAD 83
PROJECTION: STATE PLANE AK 9
PROJECT NO. 34130068

DATE 12/05/13
DWN. NAP
SCALE 1" = 20'
APPRVD. RJ

Drawing: G:\JOBS\34140087_NORTHEAST_CAPE\HTRW RA REPORT\MAPS\J-7.DWG - Layout: 11X17
User: NPEACOCK May 04, 2016 - 10:13am Xrefs: - Images:



Legend

- Soil Boring Location With One Or More Soil Samples Exceeding The Arsenic Cleanup Level of 11 mg/kg
- Soil Boring Location Where Soil Samples Did Not Exceed The Arsenic Cleanup Level
- Site 21 Historical Excavation Extents
- Topographic Contour (0.5 ft)
- Topographic Contour (3 ft)

Figure J-8
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Site 21 Soil Boring Sample Location Results

DATUM: NAD83	DATE 3-17-15	SHEET
PROJECTION: ASP Zone 9	DWN. BERS-RJ	1
Project No. 34140087	SCALE 1" = 50'	of
	APPRVD. GJ	1

Document Path: G:\Jobs\34140087_Northeast_Cape\HTRW RA Report\MAPS\J-8.mxd

2011 Site 21 Technical Memorandum – Background Arsenic Sampling for Site 21

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

111 W. 16th Avenue, Third Floor
Anchorage, Alaska 99501-5109
907-563-0013 Phone
907-563-6713 Fax

TECHNICAL MEMORANDUM

34110008

DATE: August 8, 2011

TO: Carey Cossaboom
US Army Corps of Engineers, Alaska District
CEPOA CT (W911KB)
PO Box 6898
JBER, Alaska 99506-6898

FROM: Molly Welker, Project Manager
Bristol Environmental Remediation Services, LLC

RE: Background Arsenic Sampling for Site 21
W911KB-06-D-0007, Task Order 0007
2011 Northeast Cape HTRW Remedial Actions

Bristol Environmental Remediation Services, LLC (Bristol) has prepared this Technical Memorandum (Tech Memo) at the request of the US Army Corps of Engineers, Alaska District (USACE) under Contract W911KB-06-D-0007 for the 2011 Remedial Actions at Northeast Cape, Alaska. The Tech Memo provides results from July 2011 background sampling for arsenic near Site 21, and presents a discussion of the data.

Site Background

In 2010, Bristol excavated 16.7 tons of soil at Site 21, centered around historical sample location 94NE2116722. The excavation area was roughly 17 feet wide, 17 feet long, and 2 feet deep. Eight confirmation samples were collected from the excavation and the results indicated concentrations were still above the cleanup level of 11 milligrams per kilogram (mg/kg). Figure 1 presents a map of the 2010 sample locations and results. The 2010 sample results for arsenic ranged from 4 mg/kg to 180 mg/kg. Table 1 includes the sample results from 2010.

Table 1 Arsenic Results for Site 21
NE Cape, St. Lawrence Island, Alaska

Background Sample Results (collected 7/22/2011)		Sample Depth		Site 21 Excavation Soil Sample Results (collected August 17, 2010)		Sample Depth	
Sample ID	Arsenic (mg/kg)	(feet)	Sample Description	Sample ID	Arsenic (mg/kg)	(feet)	Sample Description
11NC21SS01	5.4	1	Brown peat with organic silt, wet	10NC21SB01	12	2	Brown silty gravel, wet
11NC21SS02	3.1	2.5	Brown organic silt, wet	10NC21SB02	180	1.5	Brown silty gravel, wet
11NC21SS03	3.5	1.5	Brown peat with organic silt, wet	10NC21SB03	4	1.5	Brown silty gravel, wet
*11NC21SS10**	*2.9*	*1.5*	*Brown peat with organic silt, wet*	*10NC21SB08***	*4*	*1.5*	*Brown silty gravel, wet*
11NC21SS04	6	*2*	Brown organic silt, frozen	10NC21SB04	4.9	1.5	Brown gravelly peat with silt, wet
11NC21SS05	6	0.5	Brown peat with organic silt, wet	10NC21SB05	170	0.7	Reddish brown silty peat with clay, wet
11NC21SS06	10	1	Reddish-brown peat with organic silt, wet	10NC21SB06	120	0.5	Brown silty peat, wet
11NC21SS07	6.3	0.5	Brown peat with organic silt, wet	10NC21SB07	54	1	Brown silty peat, wet
11NC21SS08	3.6	1	Brown clayey peat, wet	10NC21SB42	11	3	Grayish brown silty gravel, wet
11NC21SS09	22	1	Brown peat, wet	*10NC21SB43****	*17*	*3*	*Grayish brown silty gravel, wet*

Notes:

*duplicate sample of 10NC21SS03

**duplicate sample of 10NC21SB03

***duplicate sample of 10NC21SB42

mg/kg = milligrams per kilogram

NE Cape = Northeast Cape

2011 Field Activities

The scope of work for 2011 was to collect nine background soil samples in the vicinity of Site 21. The nine soil samples were collected on July 22, 2011, from locations upgradient of the 2010 Site 21 soil excavation. The locations were from areas with no known or suspected anthropogenic sources and from vegetative cover and soil type similar to those observed from the 2010 Site 21 excavation. One duplicate and one matrix spike (MS)/matrix spike duplicate (MSD) sample were collected along with the nine primary samples. Figure 2 shows the locations of the background samples. Table 1 includes the soil sample descriptions from 2010 and 2011.

Sample Results

The results for the nine background samples and one duplicate are included in Table 1. The background sample results ranged from 2.9 to 22 mg/kg. Attachment 1 contains the laboratory report for the 2011 arsenic samples. Also included in Attachment 1 is the laboratory report for the 2010 excavation samples.

The samples collected from background locations in 2011 were all organic silts ranging from brown to dark reddish brown immediately below the active organic layer (some were frozen). Table 1 provides the sample descriptions for each sample collected in 2011. The soil type from the 2010 Site 21 excavation was gravelly or silty peat, with the exception of three samples that were silty gravels. Table 1 includes sample descriptions from the 2010 samples.

Data Evaluation

Statistical analysis, including both estimation and hypotheses testing approaches, are routinely used to estimate background level threshold values for contaminants of concern (COC), or to compare contaminant concentrations from an area of concern (AOC) with background concentrations.

The EPA supports several exposure and risk management and cleanup decisions based on the mean concentration of the COC. A 95% upper confidence limit (UCL95) of the COC values from an unknown population (e.g., background area) can be used to estimate background level mean contaminant concentrations. The background mean contaminant concentration level can

be used to compare the mean concentration of an AOC (e.g., Site 21 arsenic values) (EPA, 2010).

The site background mean concentration was determined by calculating the UCL95 for the background results. ProUCL Version 4. 1 was used to process the data (EPA, 2010). All results from the background study had detectable results and none of the results were qualified as estimated; therefore, all data were included in the analysis. For the duplicate sample result, the primary sample result was used.

Prior to performing the UCL95 calculation, ProUCL was used to perform general statistics for the data set. Attachment 2 includes the ProUCL program input and output data. The analysis by ProUCL determined that the background arsenic data is not normally distributed. Also computed were the Site 21 excavation results. The statistics for both sets are included in Table 2.

Table 2 Summary Statistics for Site 21 Arsenic Soil Samples NE Cape, St. Lawrence Island, Alaska

	2011 Background Samples	2010 Excavation Samples
Number of Observations	10	8
Minimum	3.1	4
Maximum	22	180
Mean	7.322	69.49
Median	6	33
Standard Deviation	5.886	75.87
Standard Error of Mean	1.962	26.82
Coefficient of Variation	0.804	1.092
Skewness	2.354	0.676
UCL95[1]	11.49	198.5

Notes:
[1]UCL95 calculated using gamma distribution
NE Cape = Northeast Cape
Statistics calculated using EPA ProUCL Version 4.1, 2010
UCL95 = mean concentration using a 95% upper confidence limit

Based on simulation studies, the software recommends a method for calculating the UCL95. Since the data was not normally distributed, the program suggests using the UCL95 calculated from the distribution that best fits the data. The ProUCL manual notes that the use of lognormal

distribution yields unrealistic and highly unstable upper confidence limit values, and, subsequently, the value calculated for the gamma distribution was selected over lognormal distribution. The background mean arsenic concentration using a UCL95 calculated by ProUCL and using a gamma distribution is 11.49 mg/kg.

Table 3 compares the estimated background concentration to the Site 21 results. As shown in Table 3, six of the ten sample results (including the duplicate result) exceed the mean background arsenic concentration of 11.49 mg/kg.

Table 3 Comparison of Site 21 Arsenic Results to Background Concentration

Site 21 Arsenic Sample Identification, July 2010	Site 21 Excavation Sample Results, July 2010	Mean Background Concentration using a 95% Upper Confidence Limit (UCL95)[1]	Sample Concentration Above Background?
10NC21SB01	12	11.49	yes
10NC21SB02	180		yes
10NC21SB03	4		no
*10NC21SB08***	*4*		no
10NC21SB04	4.9		no
10NC21SB05	170		yes
10NC21SB06	120		yes
10NC21SB07	54		yes
10NC21SB42	11		no
*10NC21SB43****	*17*		yes

Notes:
[1]Statistics calculated using EPA ProUCL Version 4.1, May 2010
UCL95 calculated using gamma distribution
**duplicate sample of 10NC21SB03
***duplicate sample of 10NC21SB42

ProUCL is also capable of performing two-sample hypotheses testing. Specifically, two-sample hypotheses testing approaches are used to compare the average contaminant concentrations of two or more populations such as the background population and the potentially contaminated site areas (EPA, 2010).

The ProUCL two-sample hypothesis testing was used to compare the population of the Site 21 excavation samples and background sample concentrations. Using, the Student's two-sample t-test, the hypothesis testing found that the two populations were not similar and that the site excavation levels were greater than the site background levels. Attachment 2 includes the output for the t-test hypothesis testing. Table 4 summarizes the results from the hypothesis testing.

Conclusions

The data evaluation has indicated that the 2010 Site 21 excavation results are above the background arsenic level. Further excavation at Site 21, in areas above the cleanup level concentration of 11 mg/kg, is recommended. The results also determined that the mean background concentration using the UCL95 (11.49 mg/kg) is in agreement or similar to the cleanup level of 11 mg/kg.

References

EPA, 2010. ProUCL Version 4.1.00 Technical Guide (Draft) and ProUCL User's Guide (Draft), May 2010. U.S. EPA, Office of Research and Development, National Exposure Research Laboratory, Environmental Sciences Division, Characterization and Monitoring Branch.

Table 4 Student's t-Test Site Verses Background Hypothesis Testing Results[1]

		t-Test	Critical	
Method	DF	Value	t(0.050)	P-Value
Pooled (Equal Varience)	15	2.46	1.753	0.013
Welch-Satterthwaite (Unequal Variance)	7.1	2.311	1.895	0.027

Notes:

*Student's t-Test (pooled): Reject hypothesis, Conclude Site > Background

[1]Statistics calculated using EPA ProUCL Version 4.1, May 2010

Conclusion with Alpha = 0.050

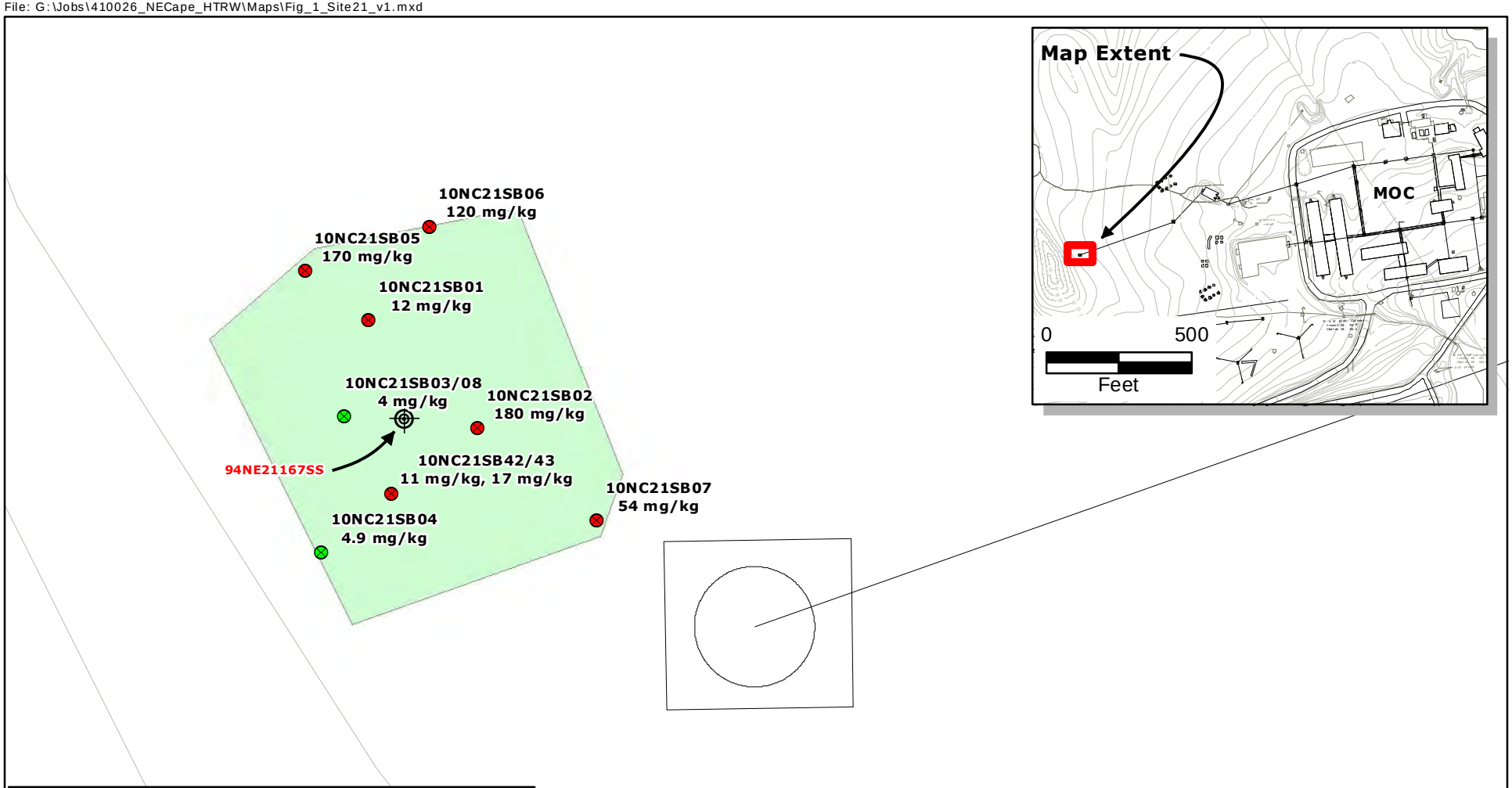
Pooled SD 52.006

DF = degrees of freedom

SD = standard deviation

FIGURES

File: G:\Jobs\410026_NECape_HTRW\Maps\Fig_1_Site21_v1.mxd



Note: Arsenic result is shown in milligrams per kilogram. Feature lines are adapted from Montgomery Watson file titled "NECAPE.DWG" dated June 5, 2001. Adjusted using resurvey performed by Eco-Land, LLC, July 2009. Confirmation sample locations captured using Trimble® GeoXH™.

Legend

- Arsenic Result Above Cleanup Level
- Arsenic Result Below Cleanup Level
- Previous Sample Location
- Excavation

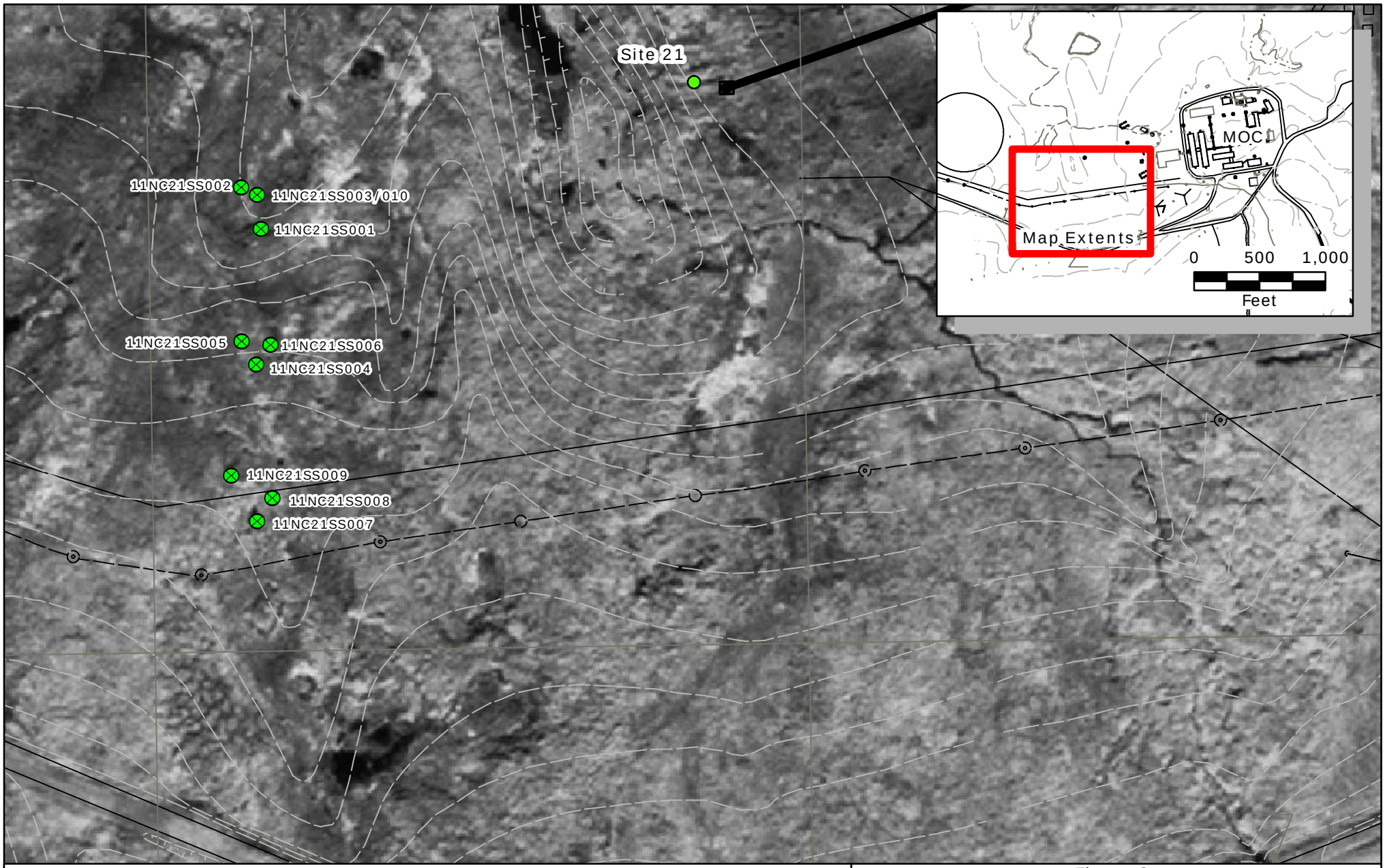
N W E S

0 5 10 20
Feet

Figure 1
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Removal Actions
Site 21 Confirmation Samples and Excavation Extents

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC
Phone (907)563-0013 Fax (907)563-6713
Project No. 410026

DATUM: NAD83	DATE 08-05-11	SHEET	
PROJECTION: Alaska State Plane Zone 9	DWN. BI-ME	1	
	SCALE 1:100	of	
	APPRVD. BERS-MW	1	



Legend

- Site 21 Background Samples

N
W E
S

0 50 100 200 300
Feet

Figure 2
Northeast Cape, St. Lawrence Island, Alaska
Northeast Cape HTRW Remedial Actions
Site 21 Background Sample Location Map

Bristol ENVIRONMENTAL REMEDIATION SERVICES, LLC
Phone (907)563-0013 Fax (907)563-6713
Project No. 34110008

DATUM:	DATE	08/08/11	SHEET
NAD83	DWN.	BERS-RJ	1
PROJECTION:	SCALE	1:1,200	of
Alaska State Plane Zone 9 (Feet)	APPRVD.	BERS-MW	1

APPENDIX K

Cleanup Levels, Evaluation Criteria, and
Laboratory Analytical Limits

TABLE K1 REFERENCE LIMITS AND EVALUATION CRITERIA FOR SOIL and SEDIMENT

Analyte	Analytical Group	Analytical Method	Preparation Method	CASRN	Units	Cleanup Levels and Evaluation Criteria	Achievable Laboratory Limits		
						SOIL	DL	LOD	LOQ
POL									
Gasoline Range Organics - C_6 to C_{10}	FUELS	AK101	SW5035A	NS	mg/kg	300[2]	0.46	1	4
Diesel Range Organics - C_{10} to C_{25}	FUELS	AK102	SW3550B	NS	mg/kg	9200[1]	2.3	6.50	20
Residual Range Organics - C_{25} to C_{36}	FUELS	AK103	SW3550B	NS	mg/kg	9200[1]	11	25.0	50
Volatile Organic Compounds									
Acetone	VOC	SW8260B	SW5035A	67-64-1	µg/kg	88000[1]	100.0	300	400
Benzene	VOC	SW8260B	SW5035A	71-43-2	µg/kg	2000[1]	4	10.0	16.0
Bromobenzene	VOC	SW8260B	SW5035A	108-86-1	µg/kg	NS	10	30.0	40.0
Bromochloromethane	VOC	SW8260B	SW5035A	74-97-5	µg/kg	NS	12.00	30.0	40.0
Bromodichloromethane	VOC	SW8260B	SW5035A	75-27-4	µg/kg	44[2]	10	30.0	40.0
Bromoform (Tribromomethane)	VOC	SW8260B	SW5035A	75-25-2	µg/kg	340[2]	11	30.0	40.0
Bromomethane	VOC	SW8260B	SW5035A	74-83-9	µg/kg	160[2]	35.00	100.0	140.0
2-Butanone (Methyl ethyl ketone)	VOC	SW8260B	SW5035A	78-93-3	µg/kg	59000[2]	100.0	300	400
n-Butylbenzene	VOC	SW8260B	SW5035A	104-51-8	µg/kg	15000[2]	10.00	30.0	40.0
sec-Butylbenzene	VOC	SW8260B	SW5035A	135-98-8	µg/kg	12000[2]	10.00	30.0	40.0
tert-Butylbenzene	VOC	SW8260B	SW5035A	98-06-6	µg/kg	12000[2]	10.00	30.0	40.0
Carbon disulfide	VOC	SW8260B	SW5035A	75-15-0	µg/kg	12000[2]	10.00	30.0	40.0
Carbon tetrachloride	VOC	SW8260B	SW5035A	56-23-5	µg/kg	23[2]	5.00	15.0	20.0
Chlorobenzene	VOC	SW8260B	SW5035A	108-90-7	µg/kg	630[2]	10.00	30.0	40.0
Chlorodibromomethane (Dibromochlorom	VOC	SW8260B	SW5035A	124-48-1	µg/kg	32[2]	10.00	30.0	40.0
Chloroethane (Ethyl chloride)	VOC	SW8260B	SW5035A	75-00-3	µg/kg	580000[2]	100.00	300.0	400.0
Chloroform	VOC	SW8260B	SW5035A	67-66-3	µg/kg	460[2]	10.00	30.0	40.0
Chloromethane	VOC	SW8260B	SW5035A	74-87-3	µg/kg	210[2]	100.00	300.0	400.0
2-Chlorotoluene (o-Chlorotoluene)	VOC	SW8260B	SW5035A	95-49-8	µg/kg	NS	10.00	30.0	40.0
4-Chlorotoluene (p-Chlorotoluene)	VOC	SW8260B	SW5035A	106-43-4	µg/kg	NS	13.00	30.0	40.0
1,2-Dibromo-3-chloropropane (DBCP)	VOC	SW8260B	SW5035A	96-12-8	µg/kg	NS	66.00	150.0	200.0
1,2-Dibromoethane (Ethylene dibromide)	VOC	SW8260B	SW5035A	106-93-4	µg/kg	0.16[2]	10.00	30.0	40.0
Dibromomethane (Methylene bromide)	VOC	SW8260B	SW5035A	74-95-3	µg/kg	NS	10.00	30.0	40.0
1,2-Dichlorobenzene	VOC	SW8260B	SW5035A	95-50-1	µg/kg	5100[2]	10.00	30.0	40.0
1,3-Dichlorobenzene	VOC	SW8260B	SW5035A	541-73-1	µg/kg	28000[2]	10.00	30.0	40.0
1,4-Dichlorobenzene	VOC	SW8260B	SW5035A	106-46-7	µg/kg	640[2]	10.00	30.0	40.0
Dichlorodifluoromethane	VOC	SW8260B	SW5035A	75-71-8	µg/kg	140000[2]	10.00	30.0	40.0
1,1-Dichloroethane	VOC	SW8260B	SW5035A	75-34-3	µg/kg	25000[2]	10.00	30.0	40.0
1,2-Dichloroethane	VOC	SW8260B	SW5035A	107-06-2	µg/kg	16[2]	10.00	30.0	40.0
cis-1,2-Dichloroethene	VOC	SW8260B	SW5035A	156-59-2	µg/kg	240[2]	10.00	30.0	40.0
trans-1,2-Dichloroethene	VOC	SW8260B	SW5035A	156-60-5	µg/kg	370[2]	10.00	30.0	40.0
1,2-Dichloroethene (total)	VOC	SW8260B	SW5035A	540-59-0	µg/kg	NS	10.00	30.0	40
1,1-Dichloroethene	VOC	SW8260B	SW5035A	75-35-4	µg/kg	30[2]	5.00	15.0	20.0
1,2-Dichloropropane	VOC	SW8260B	SW5035A	78-87-5	µg/kg	18[2]	3.90	10.0	12.0
1,3-Dichloropropane	VOC	SW8260B	SW5035A	142-28-9	µg/kg	NS	10.00	30.0	40.0
2,2-Dichloropropane	VOC	SW8260B	SW5035A	594-20-7	µg/kg	NS	10.00	30.0	40.0
1,1-Dichloropropene	VOC	SW8260B	SW5035A	563-58-6	µg/kg	NS	10.00	30.0	40.0
cis-1,3-Dichloropropene	VOC	SW8260B	SW5035A	10061-01-5	µg/kg	NS	4.0	10.0	16.0
trans-1,3-Dichloropropene	VOC	SW8260B	SW5035A	10061-02-6	µg/kg	NS	4.00	10.0	16.0
1,3-Dichloropropene (total)	VOC	SW8260B	SW5035A	542-75-6	µg/kg	33[2]	4.00	10.0	16.0
Ethylbenzene	VOC	SW8260B	SW5035A	100-41-4	µg/kg	6900[2]	10.00	30.0	40.0
Hexachlorobutadiene (Hexachloro-1,3-but	VOC	SW8260B	SW5035A	87-68-3	µg/kg	120[2]	10.00	30.0	40.0
2-Hexanone	VOC	SW8260B	SW5035A	74-88-4	µg/kg	NS	50.0	150	200
Isopropylbenzene (Cumene)	VOC	SW8260B	SW5035A	98-82-8	µg/kg	51000[2]	10.00	30.0	40.0
p-Isopropyltoluene (4-Isopropyltoluene)	VOC	SW8260B	SW5035A	99-87-6	µg/kg	NS	10.00	30.0	40.0
4-Methyl-2-pentanone (Methyl isobutyl ke	VOC	SW8260B	SW5035A	108-10-1	µg/kg	8100[2]	50.00	150	200
Methyl tert-butyl ether (MtBE)	VOC	SW8260B	SW5035A	1634-04-4	µg/kg	1300[2]	10.00	30.0	40.0
Methylene chloride	VOC	SW8260B	SW5035A	75-09-2	µg/kg	16[2]	10.00	30.0	40.0
Naphthalene	VOC	SW8260B	SW5035A	91-20-3	µg/kg	120000[1]	10.00	30.0	40.0
n-Propylbenzene (Propyl benzene)	VOC	SW8260B	SW5035A	78-92-2	µg/kg	15000[2]	10.00	30.0	40.0
Styrene	VOC	SW8260B	SW5035A	100-42-5	µg/kg	960[2]	10.00	30.0	40.0
1,1,1,2-Tetrachloroethane	VOC	SW8260B	SW5035A	630-20-6	µg/kg	NS	10.00	30.0	40.0
1,1,2,2-Tetrachloroethane	VOC	SW8260B	SW5035A	79-34-5	µg/kg	17[2]	10.00	30.0	20.0
Tetrachloroethene	VOC	SW8260B	SW5035A	127-18-4	µg/kg	24[2]	5.00	15.0	20.0
Toluene	VOC	SW8260B	SW5035A	108-88-3	µg/kg	6500[2]	10.00	30.0	40.0
1,2,3-Trichlorobenzene	VOC	SW8260B	SW5035A	87-61-6	µg/kg	NS	11.60	30.0	40.0
1,2,4-Trichlorobenzene	VOC	SW8260B	SW5035A	120-82-1	µg/kg	850[2]	10.00	30.0	40.0
1,1,1-Trichloroethane	VOC	SW8260B	SW5035A	71-55-6	µg/kg	820[2]	3.00	8.8	12.0
1,1,2-Trichloroethane	VOC	SW8260B	SW5035A	79-00-5	µg/kg	18[2]	1.80	4.0	12.0
Trichloroethene	VOC	SW8260B	SW5035A	79-01-6	µg/kg	20[2]	4.00	10.0	16.0
Trichlorofluoromethane	VOC	SW8260B	SW5035A	75-69-4	µg/kg	NS	10.0	30.0	40.0
1,2,3-Trichloropropane	VOC	SW8260B	SW5035A	96-18-4	µg/kg	0.53[2]	11.60	30.0	40.0
1,2,4-Trimethylbenzene	VOC	SW8260B	SW5035A	95-63-6	µg/kg	23000[2]	10.00	30.0	40.0
1,3,5-Trimethylbenzene	VOC	SW8260B	SW5035A	108-67-8	µg/kg	23000[2]	10.00	30.0	40.0
Vinyl chloride	VOC	SW8260B	SW5035A	75-01-4	µg/kg	8.5[2]	2.0	5.0	8.0
m-Xylene & p-Xylene	VOC	SW8260B	SW5035A	1330-20-7	µg/kg	NS	10.0	30.0	40
o-Xylene	VOC	SW8260B	SW5035A	95-47-6	µg/kg	NS	10.00	30.0	40.0
Xylenes, total	VOC	SW8260B	SW5035A	1330-20-7	µg/kg	63000[2]	10.00	30.0	40.0

TABLE K1 - REFERENCE LIMITS AND EVALUATION CRITERIA FOR SOIL and SEDIMENT

Analyte	Analytical Group	Analytical Method	Preparation Method	CASRN	Units	Cleanup Levels and Evaluation Criteria	Achievable Laboratory Limits		
						SOIL	DL	LOD	LOQ
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	PAH	SW8270C-SIM	SW3550B	83-32-9	µg/kg	180000[2]	1.5	2.5	5.0
Acenaphthylene	PAH	SW8270C-SIM	SW3550B	208-96-8	µg/kg	180000[2]	1.5	2.5	5.0
Anthracene	PAH	SW8270C-SIM	SW3550B	120-12-7	µg/kg	3000000[2]	1.5	2.5	5.0
Benzo(a)anthracene	PAH	SW8270C-SIM	SW3550B	56-55-3	µg/kg	3600[2]	1.5	2.5	5.0
Benzo(b)fluoranthene	PAH	SW8270C-SIM	SW3550B	205-99-2	µg/kg	12000[2]	1.5	2.5	5.0
Benzo(k)fluoranthene	PAH	SW8270C-SIM	SW3550B	207-08-9	µg/kg	120000[2]	1.5	2.5	5.0
Benzo(a)pyrene	PAH	SW8270C-SIM	SW3550B	50-32-8	µg/kg	2100[2]	1.5	2.5	5.0
Benzo(g,h,i)perylene	PAH	SW8270C-SIM	SW3550B	191-24-2	µg/kg	38700000[2]	1.5	2.5	5.0
Chrysene	PAH	SW8270C-SIM	SW3550B	218-01-9	µg/kg	360000[2]	1.5	5.0	5.0
Dibenz(a,h)anthracene	PAH	SW8270C-SIM	SW3550B	53-70-3	µg/kg	4000[2]	1.5	2.5	5.0
Fluoranthene	PAH	SW8270C-SIM	SW3550B	206-44-0	µg/kg	1400000[2]	1.5	2.5	5.0
Fluorene	PAH	SW8270C-SIM	SW3550B	86-73-7	µg/kg	220000[2]	1.5	2.5	5.0
Indeno(1,2,3-cd)pyrene	PAH	SW8270C-SIM	SW3550B	193-39-5	µg/kg	41000[2]	1.5	2.5	5.0
2-Methylnaphthalene	PAH	SW8270C-SIM	SW3550B	91-57-6	µg/kg	6100[2]	2.0	5.0	5.0
Naphthalene	PAH	SW8270C-SIM	SW3550B	91-20-3	µg/kg	120000[1]	2.0	2.5	5.0
Phenanthrene	PAH	SW8270C-SIM	SW3550B	94-09-7	µg/kg	3000000[2]	1.5	2.5	5.0
Pyrene	PAH	SW8270C-SIM	SW3550B	129-00-0	µg/kg	1000000[2]	1.5	2.5	5.0
LPAH	PAH	SW8270C-SIM	SW3550B	NA	ug/kg	NS	NS	NS	NS
HPAH	PAH	SW8270C-SIM	SW3550B	NA	ug/kg	NS	NS	NS	NS
Polychlorinated Biphenyls									
PCB-1221	PCB	SW8082A	SW3550B	11104-28-2	mg/kg	1[1]	0.0032	0.005	0.010
PCB-1016	PCB	SW8082A	SW3550B	12674-11-2	mg/kg	1[1]	0.0080	0.005	0.011
PCB-1232	PCB	SW8082A	SW3550B	11141-16-5	mg/kg	1[1]	0.0070	0.010	0.011
PCB-1242	PCB	SW8082A	SW3550B	53469-21-9	mg/kg	1[1]	0.0021	0.005	0.010
PCB-1248	PCB	SW8082A	SW3550B	12672-29-6	mg/kg	1[1]	0.0030	0.005	0.010
PCB-1254	PCB	SW8082A	SW3550B	11097-69-1	mg/kg	1[1]	0.0021	0.005	0.010
PCB-1260	PCB	SW8082A	SW3550B	11096-82-5	mg/kg	1[1]	0.0030	0.005	0.010
PCBs (sum)	PCB	SW8082A	SW3550B	1336363	mg/kg	1[1]	NS	NS	NS
Total Metals									
Arsenic	Metals	SW6020A	SW3050B	7440-38-2	mg/kg	11[1]	0.18	0.4	0.50
Barium	Metals	SW6020A	SW3050B	7440-39-3	mg/kg	1100[2]	0.03	0.04	0.20
Cadmium	Metals	SW6020A	SW3050B	7440-43-9	mg/kg	5.0[2]	0.008	0.02	0.20
Chromium	Metals	SW6020A	SW3050B	7440-47-3	mg/kg	25[2]	0.113	0.15	0.20
Lead	Metals	SW6020A	SW3050B	7439-92-1	mg/kg	400[2]	0.013	0.020	0.20
Mercury	Metals	SW7471B	SW7471B	7439-97-6	mg/kg	1.4[2]	0.0063	0.01	0.02
Nickel	Metals	SW6020A	SW3050B	7440-02-0	mg/kg	86[2]	0.071	0.25	0.50
Selenium	Metals	SW6020A	SW3050B	7782-49-2	mg/kg	3.4[2]	0.202	0.4	0.70
Silver	Metals	SW6020A	SW3050B	7440-22-4	mg/kg	11.2[2]	0.012	0.02	0.20
Vanadium	Metals	SW6020A	SW3050B	7440-62-2	mg/kg	3400[2]	0.473	0.5	0.70
Zinc	Metals	SW6020A	SW3050B	7440-66-6	mg/kg	4100[2]	1.12	1.50	2.00

Notes:

[1] Cleanup Levels Established in 2009 Decision Document

[2] Evaluation Criteria from 18AAC75 Section 341, Table B1, migration to groundwater

µg/kg = micrograms per kilogram

AAC = Alaska Administrative Code

AK = Alaska Test Method

CASRN = Chemical Abstracts Service Registry Number

DL= detection limit

HPAH=High Molecular Weight PAHs

LOD = limit of detection

LOQ = limit of quantitation

LPAH=Low Molecular Weight PAHs

mg/kg = milligrams per kilogram

NS = not specified

PAH = polynuclear aromatic hydrocarbon

PCB = polychlorinated biphenyls

POL = petroleum, oil, and lubricants

SIM = selective ion monitoring

SW = EPA Solid Waste Test Method

VOC = volatile organic compounds

TABLE K2 REFERENCE LIMITS AND EVALUATION CRITERIA FOR GROUNDWATER

Analyte	Analytical Group	Analytical Method	CASRN	Preparation Method	Units	Cleanup Levels and Evaluation Criteria[1]	Achievable Laboratory Limits		
							DL	LOD	LOQ
POL									
Gasoline Range Organics - C_6 to C_{10}	TPH	AK101	NS	SW5030B	mg/L	1.3 [2]	0.015	0.044	0.05
Diesel Range Organics - C_{10} to C25	TPH	AK102	NS	SW3510C	mg/L	1.5 [2]	0.022	0.06	0.1
Residual Range Organics - C_{25} to C36	TPH	AK103	NS	SW3510C	mg/L	1.1 [2]	0.027	0.06	0.1
Volatile Organic Compounds									
Benzene	VOC	SW8260B	71-43-2	SW5030B	µg/L	5 [2]	0.15	0.45	1.0
Bromobenzene	VOC	SW8260B	108-86-1	SW5030B	µg/L	NS	0.15	0.45	1.0
Bromochloromethane	VOC	SW8260B	74-97-5	SW5030B	µg/L	NS	0.24	0.7	1.0
Bromodichloromethane	VOC	SW8260B	75-27-4	SW5030B	µg/L	14	0.15	0.45	1.0
Bromoform (Tribromomethane)	VOC	SW8260B	75-25-2	SW5030B	µg/L	110	0.15	0.45	1.0
Bromomethane	VOC	SW8260B	74-83-9	SW5030B	µg/L	370	0.75	2.25	5.0
2-Butanone (Methyl ethyl ketone)	VOC	SW8260B	78-93-3	SW5030B	µg/L	NS	1.5	4.5	10.0
n-Butylbenzene	VOC	SW8260B	104-51-8	SW5030B	µg/L	370	0.15	0.45	1.0
sec-Butylbenzene	VOC	SW8260B	135-98-8	SW5030B	µg/L	370	0.15	0.45	1.0
tert-Butylbenzene	VOC	SW8260B	98-06-6	SW5030B	µg/L	370	0.15	0.45	1.0
Carbon disulfide	VOC	SW8260B	75-15-0	SW5030B	µg/L	3,700	0.15	0.45	1.0
Carbon tetrachloride	VOC	SW8260B	56-23-5	SW5030B	µg/L	5	0.15	0.45	1.0
Chlorobenzene	VOC	SW8260B	108-90-7	SW5030B	µg/L	100	0.15	0.45	1.0
Chloroethane (Ethyl chloride)	VOC	SW8260B	75-00-3	SW5030B	µg/L	290	0.75	2.25	5.0
Chloroform	VOC	SW8260B	67-66-3	SW5030B	µg/L	140	0.15	0.45	1.0
Chloromethane	VOC	SW8260B	74-87-3	SW5030B	µg/L	NS	0.75	2.25	5.0
2-Chlorotoluene (o-Chlorotoluene)	VOC	SW8260B	95-49-8	SW5030B	µg/L	NS	0.15	0.45	1.0
4-Chlorotoluene (p-Chlorotoluene)	VOC	SW8260B	106-43-4	SW5030B	µg/L	NS	0.15	0.45	1.0
1,2-Dibromo-3-chloropropane (DBCP)	VOC	SW8260B	96-12-8	SW5030B	µg/L	NS	0.81	2	5.0
Dibromochloromethane	VOC	SW8260B	124-48-1	SW5030B	µg/L	NS	0.52	1.5	2.0
1,2-Dibromoethane (Ethylene dibromide)	VOC	SW8260B	106-93-4	SW5030B	µg/L	0.05	0.31	0.9	1.0
Dibromomethane (Methylene bromide)	VOC	SW8260B	74-95-3	SW5030B	µg/L	NS	0.15	0.45	1.0
1,2-Dichlorobenzene (o-Dichlorobenzene)	VOC	SW8260B	95-50-1	SW5030B	µg/L	600	0.15	0.45	1.0
1,3-Dichlorobenzene (p-Dichlorobenzene)	VOC	SW8260B	541-73-1	SW5030B	µg/L	3,300	0.15	0.45	1.0
1,4-Dichlorobenzene	VOC	SW8260B	106-46-7	SW5030B	µg/L	75	0.15	0.45	1.0
Dichlorodifluoromethane	VOC	SW8260B	75-71-8	SW5030B	µg/L	7,300	0.15	0.45	1.0
1,1-Dichloroethane	VOC	SW8260B	75-34-3	SW5030B	µg/L	7,300	0.15	0.45	1.0
1,2-Dichloroethane	VOC	SW8260B	107-06-2	SW5030B	µg/L	5.0	0.15	0.45	1.0
cis-1,2-Dichloroethene	VOC	SW8260B	156-59-2	SW5030B	µg/L	70	0.15	0.45	1.0
trans-1,2-Dichloroethene	VOC	SW8260B	156-60-5	SW5030B	µg/L	100	0.15	0.45	1.0
1,1-Dichloroethene	VOC	SW8260B	75-35-4	SW5030B	µg/L	7.0	0.15	0.45	1.0
1,2-Dichloropropane	VOC	SW8260B	78-87-5	SW5030B	µg/L	5	0.15	0.45	1.0
1,3-Dichloropropane	VOC	SW8260B	142-28-9	SW5030B	µg/L	NS	0.15	0.45	1.0
2,2-Dichloropropane	VOC	SW8260B	594-20-7	SW5030B	µg/L	NS	0.15	0.45	1.0
1,1-Dichloropropene	VOC	SW8260B	563-58-6	SW5030B	µg/L	NS	0.15	0.45	1.0
cis-1,3-Dichloropropene	VOC	SW8260B	10061-01-5	SW5030B	µg/L	NS	0.15	0.45	1.0
trans-1,3-Dichloropropene	VOC	SW8260B	10061-02-6	SW5030B	µg/L	NS	0.15	0.45	1.0
1,3-Dichloropropene (total)	VOC	SW8260B	542-75-6	SW5030B	µg/L	8.5	0.30	0.9	2.0
Ethylbenzene	VOC	SW8260B	100-41-4	SW5030B	µg/L	700 [2]	0.15	0.45	1.0
Hexachlorobutadiene	VOC	SW8260B	87-68-3	SW5030B	µg/L	7	0.15	0.45	1.0
2-Hexanone	VOC	SW8260B	74-88-4	SW5030B	µg/L	NS	0.8	2.25	5.0
Isopropylbenzene (Cumene)	VOC	SW8260B	98-82-8	SW5030B	µg/L	3,700	0.15	0.45	1.0
4-Isopropyltoluene	VOC	SW8260B	99-87-6	SW5030B	µg/L	NS	0.15	0.5	1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone)	VOC	SW8260B	108-10-1	SW5030B	µg/L	2,900	0.8	2.25	5.0
Methylene chloride (Dichloromethane)	VOC	SW8260B	75-09-2	SW5030B	µg/L	5.0	0.15	0.45	3.0
Naphthalene	VOC	SW8260B	91-20-3	SW5030B	µg/L	730	0.15	0.45	1.0
n-Propylbenzene	VOC	SW8260B	78-92-2	SW5030B	µg/L	370	0.15	0.45	1.0
Styrene	VOC	SW8260B	100-42-5	SW5030B	µg/L	100	0.15	0.45	1.0
1,1,1,2-Tetrachloroethane	VOC	SW8260B	630-20-6	SW5030B	µg/L	NS	0.15	0.45	1.0
1,1,2,2-Tetrachloroethane	VOC	SW8260B	79-34-5	SW5030B	µg/L	4.3	0.15	0.45	1.0
Tetrachloroethene	VOC	SW8260B	127-18-4	SW5030B	µg/L	5	0.15	0.45	1.0
Toluene	VOC	SW8260B	108-88-3	SW5030B	µg/L	1,000	0.15	0.45	1.0
1,2,3-Trichlorobenzene	VOC	SW8260B	87-61-6	SW5030B	µg/L	NS	0.15	0.45	1.0
1,2,4-Trichlorobenzene	VOC	SW8260B	120-82-1	SW5030B	µg/L	70	0.15	0.45	1.0
1,1,1-Trichloroethane	VOC	SW8260B	71-55-6	SW5030B	µg/L	200	0.15	0.45	1.0
1,1,2-Trichloroethane	VOC	SW8260B	79-00-5	SW5030B	µg/L	5	0.15	0.45	1.0
Trichloroethene	VOC	SW8260B	79-01-6	SW5030B	µg/L	5	0.15	0.2	1.0
Trichlorofluoromethane	VOC	SW8260B	75-69-4	SW5030B	µg/L	11,000	0.15	0.45	1.0
1,2,3-Trichloropropane	VOC	SW8260B	96-18-4	SW5030B	µg/L	0.12	0.15	0.45	1.0
1,2,4-Trimethylbenzene	VOC	SW8260B	95-63-6	SW5030B	µg/L	1,800	0.15	0.45	1.0
1,3,5-Trimethylbenzene	VOC	SW8260B	108-67-8	SW5030B	µg/L	1,100	0.15	0.45	1.0
Vinyl chloride	VOC	SW8260B	75-01-4	SW5030B	µg/L	2.0	0.15	0.45	1.0
m-Xylene & p-Xylene	VOC	SW8260B	1330-20-7	SW5030B	µg/L	NS	0.30	0.9	2.0
o-Xylene	VOC	SW8260B	95-47-6	SW5030B	µg/L	NS	0.15	0.45	1.0
Xylenes, total	VOC	SW8260B	1330-20-7	SW5030B	µg/L	10,000	0.45	1.35	3.0

TABLE K2 REFERENCE LIMITS AND EVALUATION CRITERIA FOR GROUNDWATER

Analyte	Analytical Group	Analytical Method	CASRN	Preparation Method	Units	Cleanup Levels and Evaluation Criteria[1]	Achievable Laboratory Limits		
							DL	LOD	LOQ
Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	PAH	SW8270C-SIM	83-32-9	SW3510C	µg/L	2,200	0.03	0.075	0.13
Acenaphthylene	PAH	SW8270C-SIM	208-96-8	SW3510C	µg/L	2,200	0.03	0.075	0.10
Anthracene	PAH	SW8270C-SIM	120-12-7	SW3510C	µg/L	11,000	0.03	0.075	0.10
Benzo(a)anthracene	PAH	SW8270C-SIM	56-55-3	SW3510C	µg/L	1.2	0.03	0.075	0.10
Benzo(b)fluoranthene	PAH	SW8270C-SIM	205-99-2	SW3510C	µg/L	1.2	0.03	0.075	0.10
Benzo(k)fluoranthene	PAH	SW8270C-SIM	207-08-9	SW3510C	µg/L	12	0.03	0.075	0.10
Benzo(a)pyrene	PAH	SW8270C-SIM	50-32-8	SW3510C	µg/L	0.2	0.03	0.075	0.20
Benzo(g,h,i)perylene	PAH	SW8270C-SIM	191-24-2	SW3510C	µg/L	1,100	0.03	0.075	0.10
Chrysene	PAH	SW8270C-SIM	218-01-9	SW3510C	µg/L	120	0.03	0.075	0.10
Dibenz(a,h)anthracene	PAH	SW8270C-SIM	53-70-3	SW3510C	µg/L	0.12	0.03	0.075	0.10
Fluoranthene	PAH	SW8270C-SIM	206-44-0	SW3510C	µg/L	1,500	0.03	0.075	0.10
Fluorene	PAH	SW8270C-SIM	86-73-7	SW3510C	µg/L	1,500	0.03	0.075	0.10
Indeno(1,2,3-cd)pyrene	PAH	SW8270C-SIM	193-39-5	SW3510C	µg/L	1.2	0.03	0.08	0.10
1-Methylnaphthalene	PAH	SW8270C-SIM	90-12-0	SW3510C	µg/L	150	0.03	0.075	0.10
2-Methylnaphthalene	PAH	SW8270C-SIM	91-57-6	SW3510C	µg/L	150	0.03	0.075	0.10
Naphthalene	PAH	SW8270C-SIM	91-20-3	SW3510C	µg/L	730	0.04	0.075	0.10
Phenanthrene	PAH	SW8270C-SIM	94-09-7	SW3510C	µg/L	11,000	0.03	0.075	0.10
Pyrene	PAH	SW8270C-SIM	129-00-0	SW3510C	µg/L	1,100	0.03	0.075	0.10
Polychlorinated Biphenyls									
PCB-1221	PCB	SW8082A	11104-28-2	SW3520C	µg/L	0.5	0.062	0.13	0.5
PCB-1016	PCB	SW8082A	12674-11-2	SW3520C	µg/L	0.5	0.045	0.10	0.5
PCB-1232	PCB	SW8082A	11141-16-5	SW3520C	µg/L	0.5	0.041	0.10	0.5
PCB-1242	PCB	SW8082A	53469-21-9	SW3520C	µg/L	0.5	0.041	0.10	0.5
PCB-1248	PCB	SW8082A	12672-29-6	SW3520C	µg/L	0.5	0.071	0.08	0.5
PCB-1254	PCB	SW8082A	11097-69-1	SW3520C	µg/L	0.5	0.044	0.13	0.5
PCB-1260	PCB	SW8082A	11096-82-5	SW3520C	µg/L	0.5	0.039	0.08	0.5
Metals									
Arsenic (total)	Metals	SW6020A	7440-38-2	SW3005A	µg/L	NS	3.75	4	5.0
Arsenic (dissolved)	Metals	SW6020A	7440-38-2	SW3005A	µg/L	10 [2]	3.75	4	5.0
Barium (total)	Metals	SW6010C	7440-39-3	SW3005A	µg/L	NS	0.27	1.0	6
Barium (dissolved)	Metals	SW6010C	7440-39-3	SW3005A	µg/L	2,000	0.27	1.0	6
Cadmium (total)	Metals	SW6020A	7440-43-9	SW3005A	µg/L	NS	0.140	0.25	2.0
Cadmium (dissolved)	Metals	SW6020A	7440-43-9	SW3005A	µg/L	5	0.140	0.25	2.0
Chromium (total)	Metals	SW6010C	7440-70-2	SW3005A	µg/L	NS	1.35	1.5	2
Chromium (dissolved) (includes Cr+3 and Cr+6)	Metals	SW6010C	7440-47-3	SW3005A	µg/L	100	1.35	1.5	2
Lead (total)	Metals	SW6010C	7439-89-6	SW3005A	µg/L	NS	0.17	0.25	2
Lead (dissolved)	Metals	SW6020A	7439-92-1	SW3005A	µg/L	15 [2]	0.17	0.25	2
Mercury (total)	Metals	SW6020A	7439-96-5	SW3005A	µg/L	NS	0.041	0.1	0.2
Mercury (dissolved)	Metals	SW7470A	7439-97-6	SW7470A	µg/L	2	0.041	0.1	0.2
Nickel (total)	Metals	SW6010C	7439-98-7	SW3005A	µg/L	NS	2.0	2.50	15
Nickel (dissolved)	Metals	SW6010C	7440-02-0	SW3005A	µg/L	100	2.0	2.50	15
Selenium (total)	Metals	SW6010C	7440-09-7	SW3005A	µg/L	NS	3.55	4	5
Selenium (dissolved)	Metals	SW6020A	7782-49-2	SW3005A	µg/L	50	3.55	4	5
Silver (total)	Metals	SW6020A	7782-49-2	SW3005A	µg/L	NS	0.15	0.25	2.0
Silver (dissolved)	Metals	SW6020A	7440-22-4	SW3005A	µg/L	100	0.15	0.25	2.0
Vanadium (total)	Metals	SW6020A	7440-31-5	SW3005A	µg/L	NS	4.875	5	10
Vanadium (dissolved)	Metals	SW6020A	7440-31-5	SW3005A	µg/L	260	4.875	5	10
Zinc (total)	Metals	SW6010C	7440-62-2	SW3005A	µg/L	NS	4.4	5.0	7
Zinc (dissolved)	Metals	SW6020A	7440-66-6	SW3005A	µg/L	5,000	4.4	5.0	7

Notes:

[1] Unless otherwise noted, values are from 18AAC75 Section 345, Table C, Groundwater Cleanup Levels

[2] Cleanup Levels Established in 2009 Decision Document

µg/L = micrograms per liter

ADEC = Alaska Department of Environmental Conservation

AK = Alaska Test Method

CASRN = Chemical Abstracts Service Registry Number

DL= detection limit

LOD = limit of detection

LOQ = limit of quantitation

mg/L= milligrams per liter

NS = not specified

PAH = polynuclear aromatic hydrocarbon

PCB = polychlorinated biphenyls

SIM = selective ion monitoring

SW = EPA Solid Waste Test Method

TPH = total petroleum hydrocarbons

VOC = volatile organic compounds