

FINAL REPORT

HTW REMOVAL AT NE CAPE
ST. LAWRENCE ISLAND, ALASKA

CONTRACT DACA85-93-C-004

FEBRUARY 1995

NORTHWEST ENVIROSERVICE, INC.
429 INDUSTRIAL WAY
ANCHORAGE, AK 99501

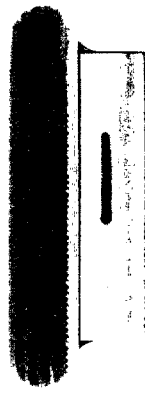
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1.0 Project Scope

The scope of this project was to remove and dispose of the Hazardous and Toxic Waste (HTW) described in contract DACA85-93-C-004 from a former military facility at Northeast Cape of St. Lawrence Island, Alaska. The location of the site is 135 miles southwest of Nome, Alaska near Kangukhsam Mtn. on the east end of St. Lawrence Island. The site coordinates are latitude 63 18' N and longitude 168 45' W.

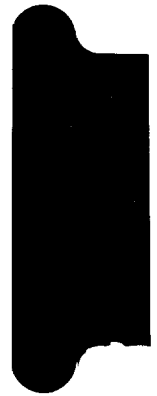
The HTW to be removed was first described in the contract specification for DACA85-93-B-0031. Included are previously identified articles on the site surface and also soil from a pit where PCB contaminated oil may have dripped. Not included in the specification but nonetheless removed are a few additional liquids considered to be hazardous on the basis of field testing.

The project was conducted during a 28 day period beginning July 5, 1994 using full USCOE QA/QC procedures. Despite winds of 70 to 90 knots the project was completed without illness or injury.

Removed from this remote site were

- 537.5 gal. of PCB contaminated oil
- 15,685 lbs. of PCB contaminated transformers and switches
- 1204.875 gal. of ignitable liquids
- 200 lbs. of corrosives
- 323 lbs. of oxidizers
- 902 lbs. of PCB contaminated soil and debris

Remaining at the site are a large number of steel drums along the Beach Road. Most of the drums along the Beach Road are believed to be empty, but two have been tested and shown to contain antifreeze. The drums that were left are shown photographically in Section 3.



2.0 Project Description

Tasks to be completed are delineated in Section 01010 of Contract Specification DACA85-93-B-0031. The project intent as described in Section 01010 is to remove and dispose of HTW that was identified in previous investigations conducted in 1986, 1992 and 1993.

Prior to fielding the project team for HTW removal, documents were written and approved for a:

- Contractor Quality Control Plan
- HTW Operations Plan
- Disposal Plan
- Off-Site Transportation Plan
- Environmental Protection Plan
- Site Specific Safety and Health Plan (SSSHP)
- Sampling Plan
- A/C, Vessel & Vehicle Operations

As a part of the Site Specific Health and Safety Plan, an industrial health professional and the Project Manager visited the site prior to site work. The work plans were described to the health professional and the COR present. On the basis of that work plan, the health professional, Martin Finkel, made specific recommendations that were incorporated into the SSSHP.

Locations of work on the site are described with maps and photos in Section 3.0. Since the military base was active only from 1951 to 1969, many of the buildings are badly deteriorated. Many of the transformers were in areas with scattered debris and fallen beams. Much of the early work on the project was removal of debris and other potential work hazards.

All logistics to and from the site were accomplished by aircraft. Wastes flown out of the site were carried by a DC-6 to Nome and was then placed onto a sea-going barge to Seattle. Personnel and tools were mobilized from Anchorage through Nome.

Equipment on-site included two ATV's, one pickup truck, a 2-wheeled trailer, a chain hoist and a gantry crane. Additionally, many hand tools and personnel protection equipment were used. Many new drums and crates were delivered to the site for packaging of the wastes.

Camp facilities were contracted with Statewide Services. A second contractor was present within the same camp during a portion of the time that Northwest EnviroService was on-site.

★ The most important part of the project was removal of fifteen (15) transformers and six (6) electrical switches all of which contained dielectric fluids with high concentrations of PCB. In addition, ignitable liquids were consolidated into steel drums. Both oxidizers and corrosives were also packaged into DOT containers. All wastes with the exception of one oxidizer and one flammable solid were flown to Nome and barged to Seattle.

Figures 2.1 through 2.5 present the project site layout. An extension of the site drawings is presented on Drawing C-1 with the Project Specifications on DACA85-93-B-0031.

Table 2.1 presents the drum numbers that correspond to the transformers and switch numbers from which oil was pumped. For example, drum NEC13 contains oil from switches numbered 110S1, 110S2, 110S3, 110S5 and 110S6. Since oil from all transformers and switches had been shown to be over 500 ppm PCB, there was no disadvantage in mining.

Table 2.2 lists the contents, measured volumes and weighed mass of all drums shipped from the project site.

Only the oil reservoirs on the switches were shipped. From six switches there were eighteen reservoirs which were drained and packed into these crates. All transformer and switch crates were banded with steel banding.

Table 2.5 lists the volumes of petroleum liquids that were shipped in each of fourteen drums. The volume was determined by measuring the height of the cylindrical drum that was filled with oil.

Table 2.6 lists the shortfalls from quantity anticipated by the project specifications. The shortage of dielectric fluid present (232 gal.) was probably due to difficulty in estimating the oil-filled volume of the large switches. The shortage of halogenated liquids 70 gal. could have been attributed to an assumption that empty containers still contained liquids.

To dispose of PCB items, a detailed accounting is necessary of manufacturer, serial number, etc. Table 2.7 presents the PCB item details for the Northeast Cape project. Three transformers were without liquids when encountered. The transformer number DT16 appeared to have been vandalized many years ago and was completely free of dielectric fluid. Two others (9858 and 9859) that were in the project specifications were open to the elements and had been overtopped with rainwater for many years. Since the PCB container item had already been exceeded by over 5,000 lbs. the clean and apparently weathered transformer carcasses were left at the project site.

Final quantities were incorporated into ammendment P00003 which is incorporated into this section of the report beginning with page 2-17.

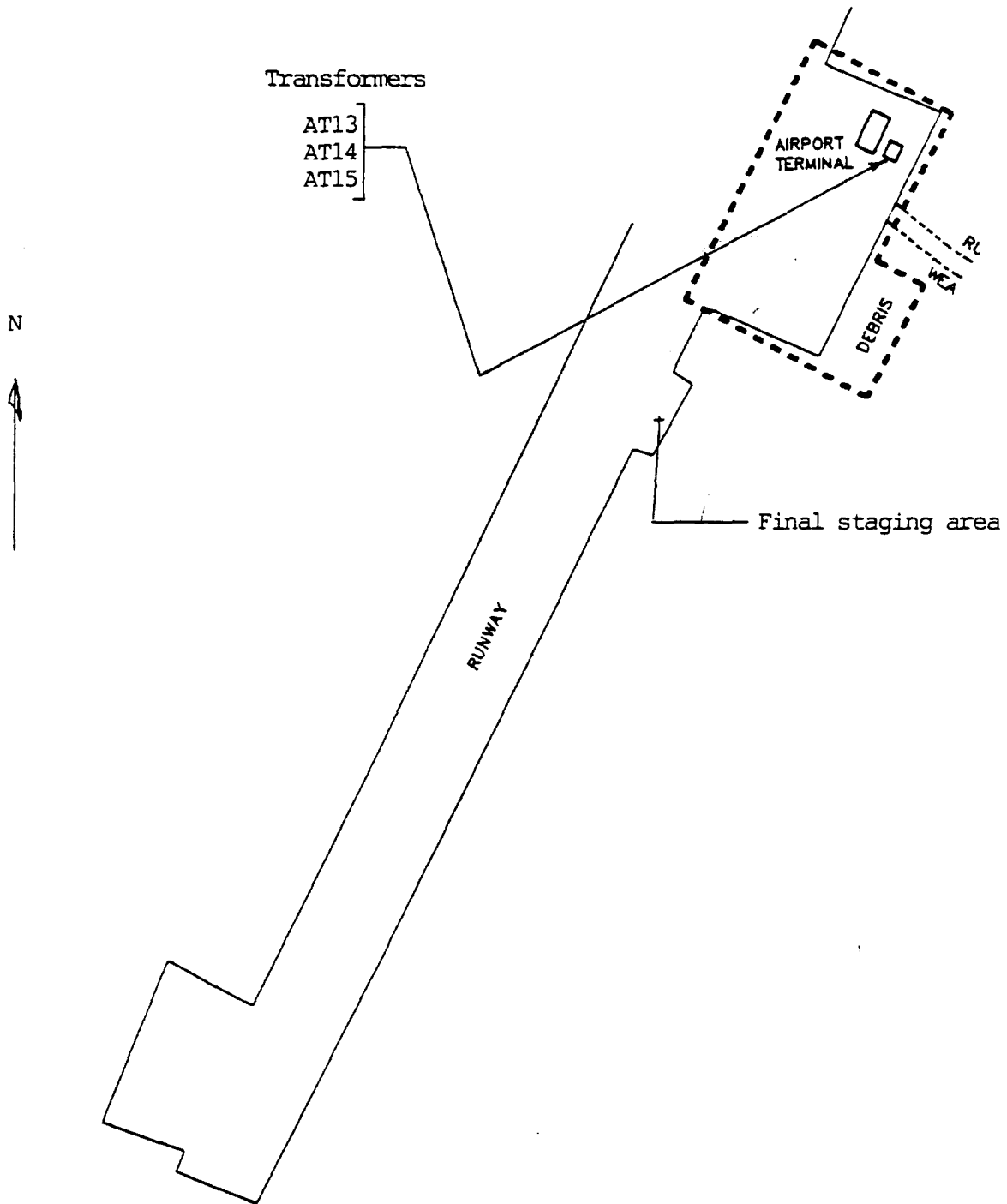


Figure 2.1

Airport Terminal Transformers

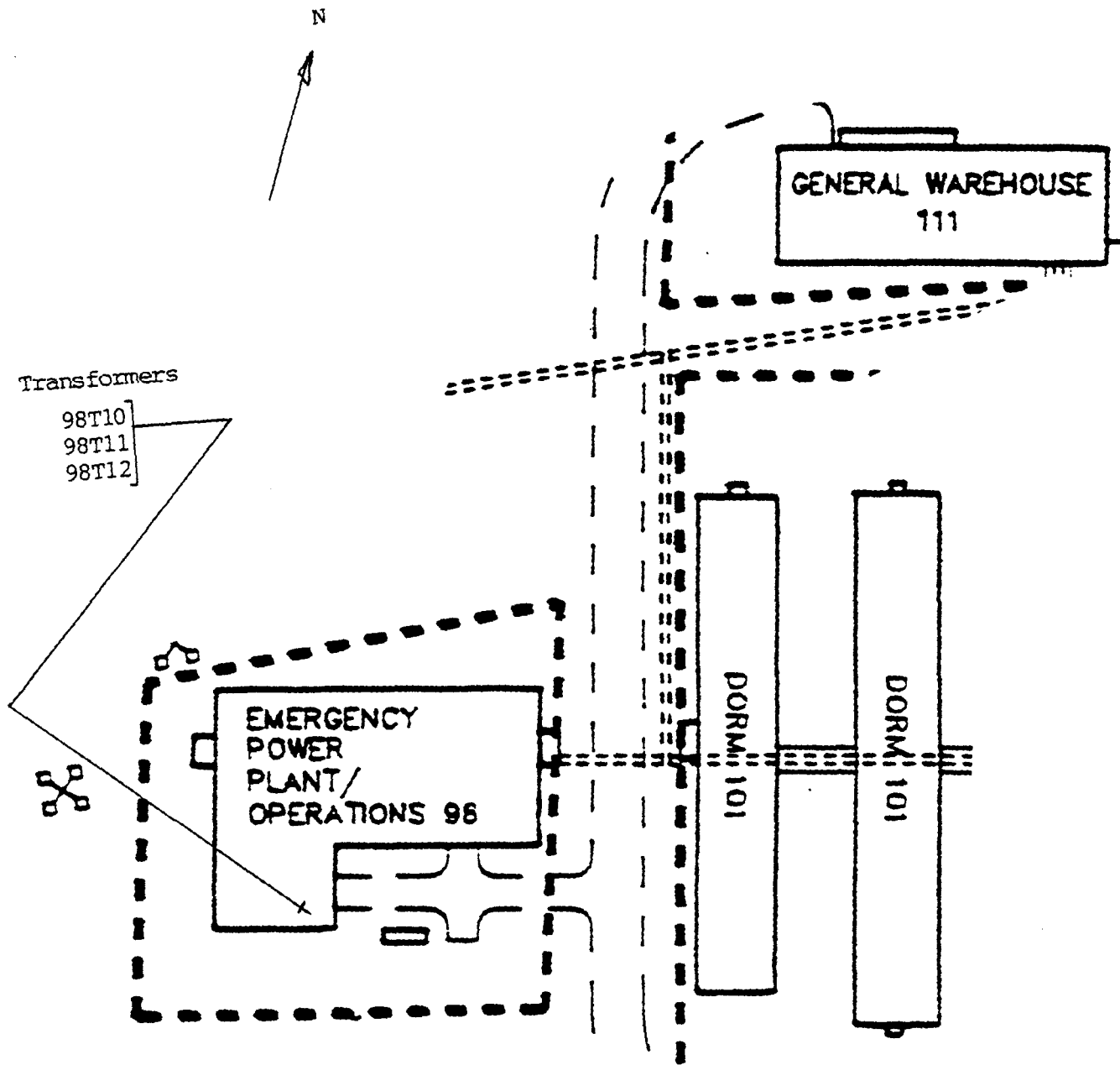


FIGURE 2.2

Emergency Power Plant Transformers

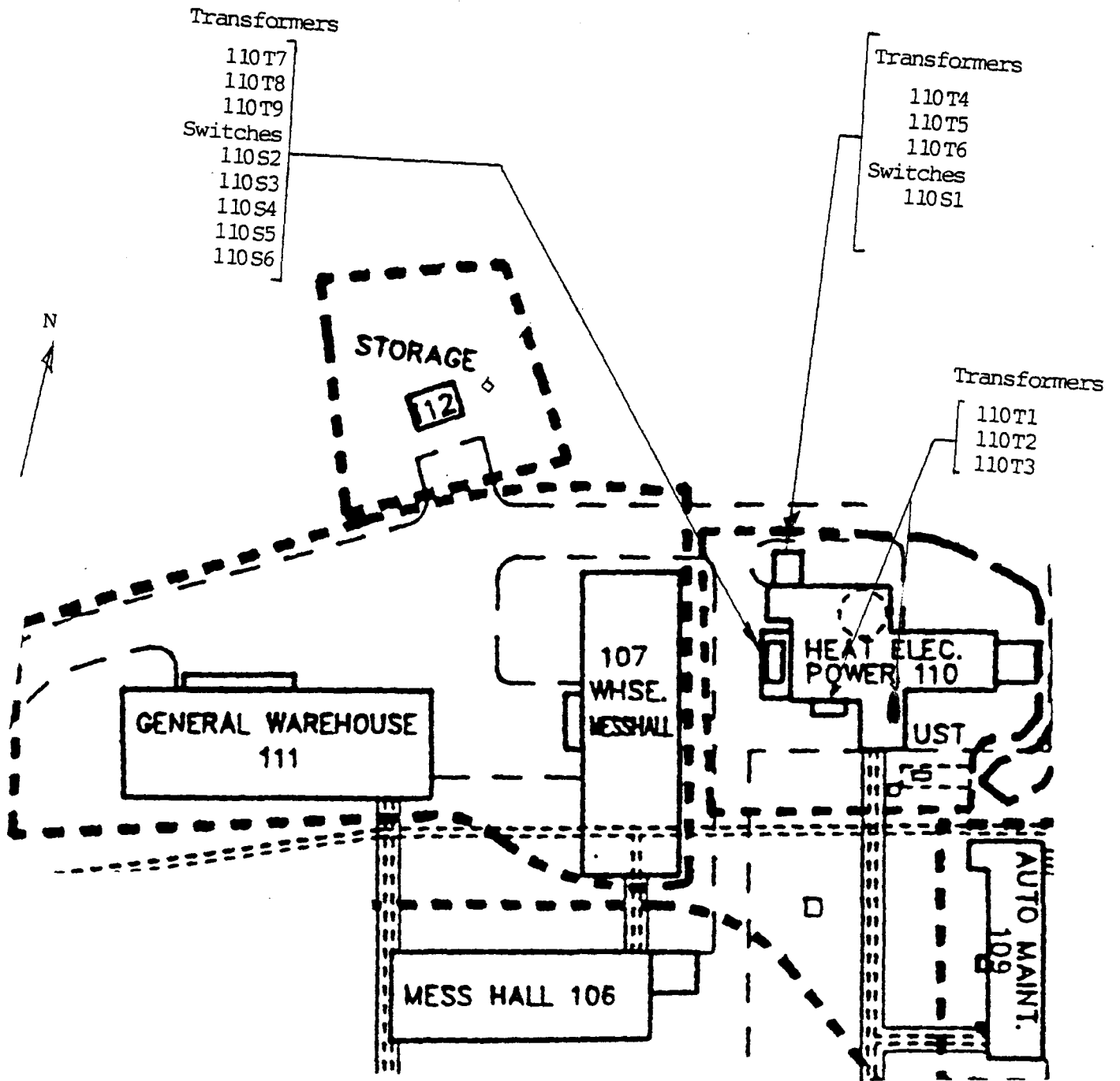


Figure 2.3
Transformer and Switch Locations at Bldg. 110

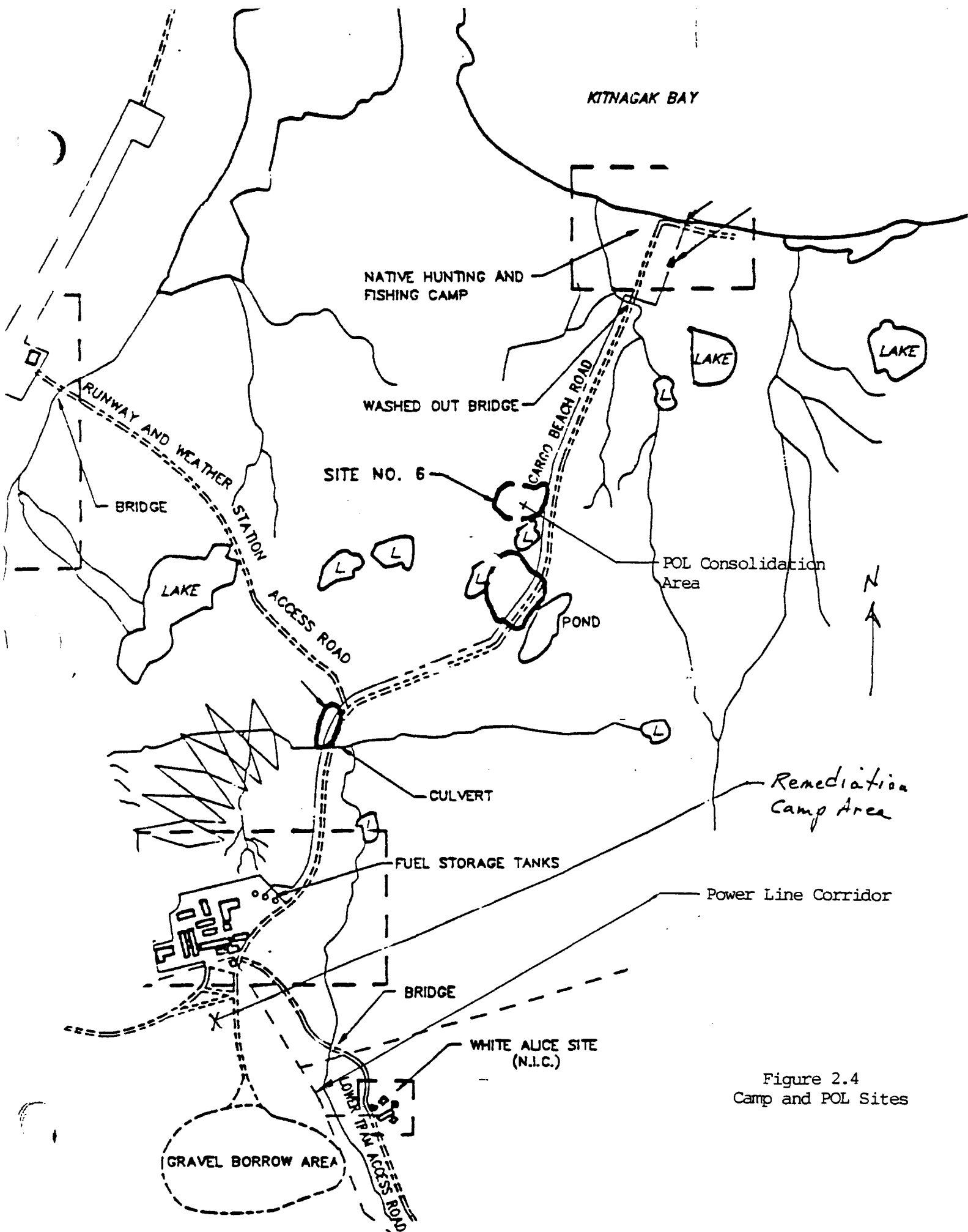


Figure 2.4
Camp and POL Sites

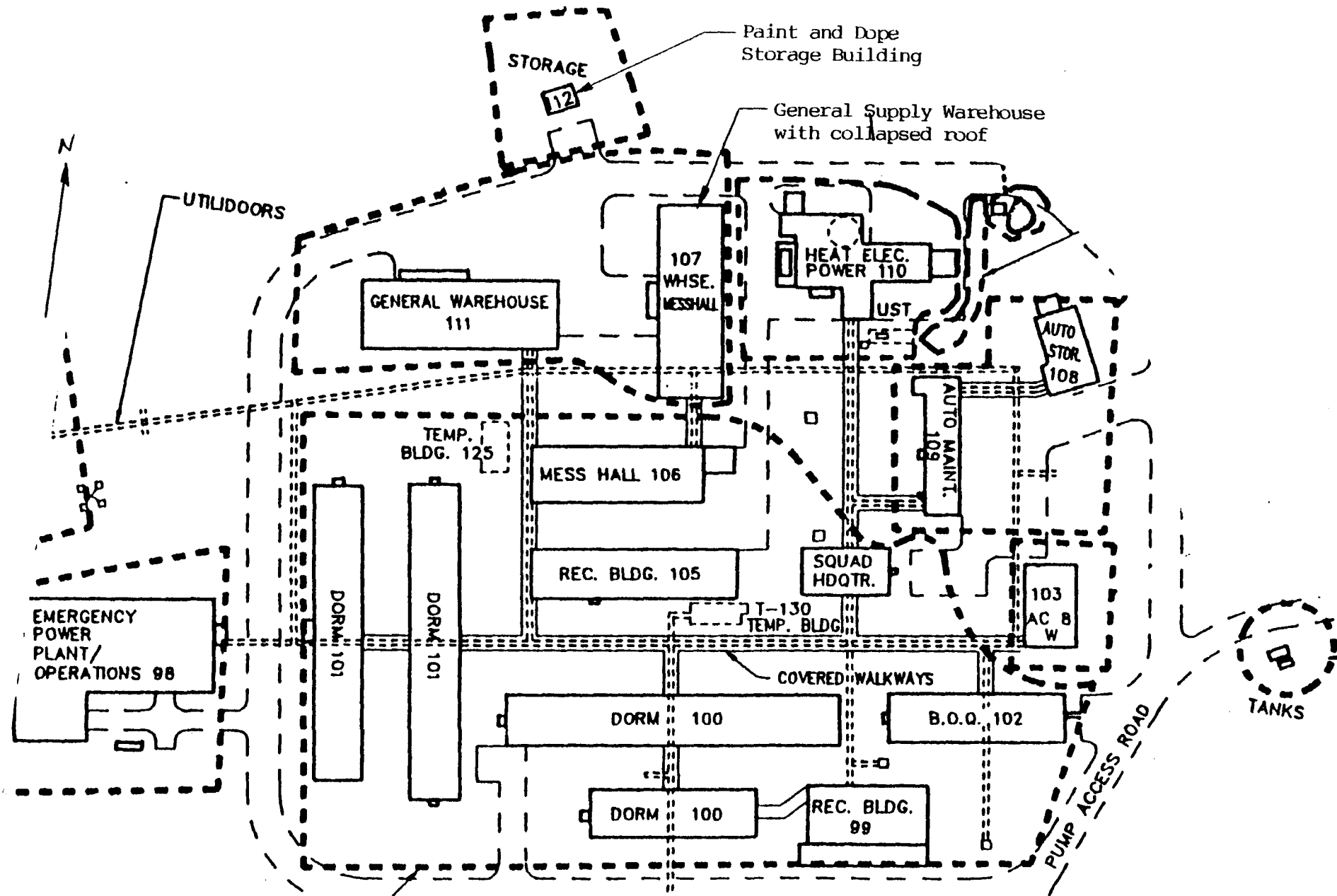


Figure 2.5
Barracks and HIW Locations

AK0000228395

EE-II



ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA ID NUMBER

+ AK0000228395

INSTALLATION ADDRESS

LAUNDRY VIKING
USARMC USACE NORTHEAST CAMP
PO BOX 893
ANCHORAGE AK 99506-0898

KANGUKSAM AT 52.25 MILES
SAYOONGA AK 99769

Table 2.1

Source of Oil in PCB Drums

<u>Drum Number</u>	<u>Transformer or Switch Number</u>	<u>PCB Concentration, mg/kg</u>
NEC01	110T1, 110T2	540000
NEC02	110T2, 110T3	590000
NEC03	110T4	560000
NEC04	110T5	630000
NEC05	110T6	550000
NEC06	110T7	480000
NEC07	110T8	590000
NEC08	110T9	480000
NEC09	98T10, 98T11	470000
NEC10	98T10, 98T12	480000
NEC11	AT13, AT14	15600
NEC12	AT14, AT15	5860
NEC13	110S1, 110S2, 110S3, 110S4, 110S5, 110S6	69000

tab.21

Table 2.2

N East Cape Drum Weights

Drum Number	Drum Size	Drum Volume (gal)	Net Fluid Weight (lbs)	Gross Weight (lbs)	Net Weight (Kg)	Gross Weight (Kg)	Comments
NEC01	85-1A2	37.25	494	609	225	277	Contents from transformer 110T1, 110T2
NEC02	85-1A2	37.25	495	610	225	277	Contents from transformer 110T2, 110T3
NEC03	85-1A2	47.00	603	718	274	326	Contents from transformer 110T4
NEC04	85-1A2	49.25	626	741	285	337	Contents from transformer 110T5
NEC05	85-1A2	51.00	667	782	303	355	Contents from transformer 110T6
NEC06	85-1A2	39.00	505	620	230	282	Contents from transformer 110T7
NEC07	85-1A2	23.50	542	657	246	299	Contents from transformer 110T8
NEC08	85-1A2	23.50	546	661	248	300	Contents from transformer 110T9
NEC09	85-1A2	55.00	729	844	331	384	Contents from transformer 98T10, 98T11
NEC10	85-1A2	55.00	710	825	323	375	Contents from transformer 98T10, 98T12
NEC11	85-1A2	35.50	256	371	116	169	Contents from transformer AT13, AT14
NEC12	85-1A2	37.25	275	390	125	177	Contents from transformer AT14, AT15
NEC13	85-1A2	47.00	404	519	184	236	Contents from Switches 110S1-6 (67,000 ppm)
NEC14	85-1A2	22.50	411	489	187	222	PRM VI, 6 - 5 gal & 15 - 1gal = 22.5 gal
NEC15	85-1A2	32.00	476	554	216	252	PRM VII 2 - 6 gal & 4 - 5 gal = 32gal
NEC16	85-1A2	36.00	634	712	288	324	PRM VIII, 6 - 6gal = 36 gal
NEC17	55-1A2	28.00	345	395	157	180	PRM I, 32 - 1 gal = 28 gal
NEC18	55-1A2	21.25	298	348	135	158	PRM II, 32 - 1gal = 21.25 gal
NEC19	55-1A2	27.75	404	454	184	206	PRM III, 32 - 1gal = 27.75 gal
NEC20	55-1A2	14.00	308	358	140	163	PRM IV, 32 - 1gal = 14 gal
NEC21	55-1A2	25.00	362	412	165	187	PRM V, 30 - 1gal = 25 gal
NEC22	55-1A2	27.25	292	342	133	155	LTX I, 32 - 1gal = 27.25 gal
NEC23	55-1A2	31.25	323	373	147	170	LTX II, 32 - 1gal = 31.25 gal
NEC24	55-1A2	31.00	316	366	144	166	LTX III, 32 - 1gal = 31 gal
NEC25	55-1A2	32.00	310	360	141	164	LTX IV, 32 - 1gal = 32 gal
NEC26	55-1A2	12.25	141	191	64	87	LTX V, 28 - 1gal = 12.25 gal
NEC27	55-1A2	N/A 5	70	120	32	55	Multiclean (turned out to be 5 gallons of paint)
NEC28	55-1A1	N/A 37	303	340	138	155	Non-Chlorinated Liquids *(Double Check Contents & add pain)
NEC29	5-1A2	N/A	16	26	7	12	Oxalic Acid
NEC30	5-1A2	N/A	17	27	8	12	Lye (a.k.a Sodium Hydroxide)
NEC31	10-1A2	N/A	36	53	16	24	Alcohol
NEC32	10-1A2	N/A	66	83	30	38	Americoat
NEC33	30-1A2	N/A	167	200	76	91	Sodium Hydroxide
NEC34	30-1A2	N/A	65	98	30	45	Septic Cleaner (ENZYMATIC TYPE)
NEC35	30-1A2	N/A	120	153	55	70	Septic Cleaner (" ")
NEC36	30-1A2	N/A	125	158	57	72	Calcium Hypochlorite
NEC37	30-1A2	N/A	66	99	30	45	Calcium Hypochlorite
NEC38	30-1A2	N/A	131	164	60	75	Calcium Hypochlorite
NEC39	85-1A2	N/A	423	501	192	228	PCB Soil & Debris from Platform
NEC40	55-1A2	N/A	139	194	63	88	PCB Debris from Platform
NEC41	55-1A1	52	421	476	191	216	POLs
NEC42	55-1A1	50	438	493	199	224	POLs

NEC43	65-1A1	49	391	446	178	203	POL18
NEC44	55-1A1	54	438	491	98 198	223	POL17
NEC45	55-1A1	52	394	449	179	204	POL18
NEC46	55-1A1	54	398	453	181	208	POL19
NEC47	55-1A1	60	409	464	186	211	POL20
NEC48	55-1A1	63	401	458	182	207	POL21
NEC49	55-1A1	64	424	479	193	218	POL22
NEC50	55-1A1	63	409	464	186	211	POL23
NEC51	55-1A1	51	401	458	182	207	POL24
NEC52	55-1A1	52	413	468	188	213	POL25
NEC53	55-1A1	52	421	476	191	218	POL26
NEC54	55-1A1	64	432	487	196	221	POL27
NEC55	85-1A2	N/A	18	94	7	43	PCB PPE debris
NEC56	30-1A2	8	88	119	39	54	PCB wash water (Decon) 10-1A2 inside 30-1A2
NEC57	85-1A2	N/A	87	165	40	75	PCB contaminated trash (URS Decon Bags inside)
NEC58	85-1A2	25	240	318	109	145	PRM X 5 - 5gal = 26 gal (Bldg 112)
NEC59	85-1A2	25	214	292	97	133	PRM XI 5 - 5gal = 25 gal (Bldg 112)
NEC60	6-1A2	3	13	23	6	10	Aluminum Chloride (Corrosive)
NEC61	30-1A2		47	80	21	36	Capella Oil (25 Qt)
NEC62	30-1A2		47	80	21	36	Electrical Insulating oil (10 gal)
NEC63	85-1A2	N/A	151	229	89	104	Empty leaky drum & sorbents (PCB Debris)
NEC64	85-1A2	N/A	110	188	50	85	Sorbents, liners (Trash)
NEC65	85-1A2		422	500	192	227	Soap L-1 Actual Weight (458)
NEC66	85-1A2		422	500	192	227	Soap L-2 Actual Weight (428)
NEC67	85-1A2		422	500	192	227	Soap L-8 Actual Weight (600) Caustic Alkali Liquids
NEC68	85-1A2		422	500	192	227	Soap L-5 Actual Weight (422)
NEC69	65-1A1		422	500	192	227	Soap L-3, L-4, 11-1 gal, 1-5 gal, Actual Weight (488)
NEC70	30-1A1		69	147	31	87	Consolidated Soap (powder/liquid slurry)
		Totals:	22185	26711	10089	12141	
				48016			

Table 2.3Transformer Shipping Sizes and Weights

#	Net LBS.	Net KG	Tare wt. LBS	Gross LBS	Gross KG	Size, Inches
110T1	547	249	140	687	312	26"x26"x54"
110T2	550	250	140	690	314	26"x26"x54"
110T3	533	242	140	673	306	26"x26"x54"
110T4	871	396	181	1052	478	37"x29"x63"
110T5	859	390	181	1040	473	37"x29"x63"
110T6	876	398	181	1057	480	37"x29"x63"
110T7	1152	524	236	1388	631	39"x39"x63"
110T8	1308	595	236	1544	702	39"x39"x63"
110T9	1300	591	236	1536	698	39"x39"x63"
98T10	1156	525	236	1392	633	39"x39"x63"
98T11	1148	522	236	1384	629	39"x39"x63"
98T12	1130	514	236	1366	621	39"x39"x63"
AT13	389	177	140	529	240	26"x26"x54"
AT14	390	177	140	530	241	26"x26"x54"
AT15	390	177	140	530	241	26"x26"x54"
AT16	560	255	140	600	273	26"x26"x54"
Totals		13159	5981	15998	7272	

Table 2.4Crate Weight and Sizes for Switches

#	Net LBS.	Net KG	Tare wt. LBS	Gross LBS	Gross KG	Size, Inches
1	834	379	257	1091	496	22"x50"x60"
2	858	390	271	1129	513	22"x50"x60"
3	834	379	253	1087	494	22"x50"x60"

Table 2.5

Petroleum Liquids Consolidated Volumes

<u>Drum #</u>	<u>Measurement</u>	<u>Volume</u>
POL 14	30 inches	52 gal.
15	29	50 gal.
16	28 1/2	49 gal.
17	31	54 gal.
18	30	52 gal.
19	31	54 gal.
20	29 1/2	50 gal.
21	30 1/2	53 gal.
22	31	54 gal.
23	30 1/2	53 gal.
24	29 1/2	51 gal.
25	30	52 gal.
26	30	52 gal.
27	31	54 gal.
	Total	730 gal.

Table 2.6

**Contractual Waste Totals Not Reached
Due to Lack of Specified Waste on Site**

Dielectric Liquids	232 gals.
1,1,1-Trichloroethane	20 gals.
Bromochloromethane	50 gals.
Oxalic Acid	83 lbs.
Sodium Hydroxide	30 lbs.
Total	= 302 gallons 113 pounds

Table 2.7

Heat and Electric Power Building (Bldg 110)										
North Location										
Item Number	Item	MFG	Serial #	Cat. No.	Model #	Voltage	Amps	Type	Weight	Volume
110S1	Switch	G&W Electric Speciality Co.	C8096-293	N/A	N/A	8000	100	FCBX		2
110T4	Transformer	Eisler Engineering Co.	3356A6	N/A	N/A	KVA-100(HV-LV)	N/A	N/A	1520	53
110T5	Transformer	Eisler Engineering Co.	3356A9	N/A	N/A	KVA-100(HV-LV)	N/A	N/A	1520	53
110T6	Transformer	Eisler Engineering Co.	3356A10	N/A	N/A	KVA-100(HV-LV)	N/A	N/A	1520	53
West Location										
110S2	Switch	G&W	D8078-34	3GFC62BX	N/A	8000	200	FCBX		7.5
110S3	Switch	G&W	D8078-34	3GFC62BX	N/A	8000	200	FCBX		7.5
110S4	Switch	G&W	D8078-34	3GFC62BX	N/A	8000	200	FCBX		7.5
110S6	Switch	G.E.	N/A	N/A	N/A	15000	200	N/A		7.5
110S7	Switch	G.E.	N/A	N/A	N/A	15000	200	N/A		7.5
110T7	Transformer	Westinghouse	62SJ715	N/A	KVA167	N/A	N/A		1630	35
110T8	Transformer	Eisler Engineering Co.	3356B5	N/A	KVA167	N/A	N/A	OA	1930	35
110T9	Transformer	Eisler Engineering Co.	3356B6	N/A	KVA167	N/A	N/A	OA	1930	35
South Location										
110T1	Transformer	Eisler Engineering Co.	3356C6	N/A	KVA50	N/A	N/A		869	25.7
110T2	Transformer	Eisler Engineering Co.	3356C1	N/A	KVA50	N/A	N/A		869	25.7
110T3	Transformer	Eisler Engineering Co.	3356C2	N/A	KVA50	N/A	N/A		869	25.7
North Location (Outside)										
98S8	Switch	G&W (Empty)	C8097-63	AL3372M	9F31ABA801	15000	250	AL		0
98S9	Switch	G&W (Water)	C8097-63	AL3372M	9F31ABA801	15000	250	AL		0
South Location (Inside)										
98T10	Transformer	Westinghouse	60S E2126	N/A	KVA167	N/A	N/A	N/A	1630	35
98T11	Transformer	Westinghouse	60S E2123	N/A	KVA167	N/A	N/A	N/A	1630	35
98T12	Transformer	Westinghouse	60S E2125	N/A	KVA167	N/A	N/A	N/A	1630	35
Airport Terminal Area										
AT13	Transformer			N/A					869	23.3
AT14	Transformer	B306925A		N/A					869	23.3
AT15	Transformer	BC0692A		N/A					869	23.3
Direction Finder Area										
DT16	Transformer	Moloney Electric Co.	NO1160849	N/A		120/240	N/A	CL2	728	0
Totals:									20882	555.5

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

FCA

1 2

2. AMENDMENT/MODIFICATION NO. P00003	3. EFFECTIVE DATE See Block 16c	4. REQUISITION/PURCHASE REQ. NO. See Block 12	5. PROJECT NO. (If applicable) Case 4
6. ISSUED BY S Army Engineer District, Alaska PO BOX 898 Anchorage, AK 99506-0898		7. ADMINISTERED BY (If other than Item 6) Fairbanks Resident Office US Army Engineer District, Alaska PO BOX 35066 Fort Wainwright, AK 99703-0066	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) NORTHWEST ENVIROSERVICE, INC. 1813 EAST FIRST AVE ANCHORAGE, AK 99501 HTW REMOVAL, NE CAPE/ST LAW IS ST LAWRENCE IS, Alaska	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	10A. MODIFICATION OF CONTRACT/ORDER NO. DACA85-93-C-0048
10B. DATED (SEE ITEM 13) 1993 September 24	X

CODE FACILITY CODE
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) by completing items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) MCD #PM-R 65-94 MCD #PM-R 74-94
QE4238300282004 213 2020 308 8081 P788008.21 25ZC S95507 INCREASE: \$38,018.67

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: CHANGES, FAR 52.243-0004, VARIATION IN ESTIMATED QUANTITY, FAR 52.212-0011.

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
Case: 4 PCB CONTAINERS/MATERIAL VARIATION

1. Decrease the contract quantity of PCB liquids by 262.5 gallons for a new total of 537.5 gallons. (Item 2.a.)
2. Increase the contract quantity of PCB containers/material by 5,685 lbs for a new total of 15,685 lbs. (Item 2.b.)
3. Decrease the contract quantity of POL liquids by 253.75 gallons for a new total of 746.25 gallons. (Item 3.)
4. Delete the removal and disposal of 1,1,1 Trichloroethane. (Item 4.a.)
5. Increase the contract quantity of Paint, Paint-Related Materials, and Solvents by 255.5 gallons for a new total of 455.5 gallons. (Item 4.b.)
6. Decrease the contract quantity of Calcium Hypochlorite by 77 lbs for a new total of 323 lbs. (Item 4.c.)

Continued on Page 2
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) THOMAS G. BLIQUIN GENERAL MANAGER-ANOU	15B. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) F.A. Wiedmaier Administrative Contracting Officer
15C. DATE SIGNED 10/13/94	15D. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)
15E. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15F. DATE SIGNED 30 SEP 94

Description of Modification, continued:

7. Delete the removal and disposal of Bromochloromethane. (Item 4.d.)
8. Decrease the contract quantity of Oxalic Acid by 84 lbs for a new total of 16 lbs. (Item 4.e.)
9. Decrease the contract quantity of Sodium Hydroxide by 16 lbs for a new total of 184 lbs. (Item 4.f)
10. Decrease the contract quantity of Isopropyl Alcohol by 1.875 gallons for a new total of 3.125 gallons. (Item 4.g.)

Changes in Contract Specifications:

Technical Specifications:

Section 01010:

- Page 01010- 6, Paragraph 1.7.2
- Page 01010- 7, Paragraph 1.7.5
- Page 01010- 8, Paragraph 1.7.6
- Page 01010- 9, Paragraph 1.7.7
- Page 01010-12, Table 1-1

Changes in Contract Drawings:

None.

Changes in Contract Schedule:

New pages BS-1 and BS-2 are included as part of this modification.

Changes in Contract Time:

None.

The contractor hereby accepts the foregoing adjustment as a final and complete equitable adjustment in full accord and satisfaction of all past, present, and future liability originating under any clause in the contract by reason of the facts and circumstances giving rise to this modification.

1.7.2 Cargo Beach Road Drum Field

This site was used primarily for the disposal of empty POL drums generated during operation of the former base. The drum field is located 0.6 mile south of the native fishing and hunting camp and 150 feet east of Cargo Beach Road as shown on the Plans. The site consists primarily of POL drums scattered over a 13,500-square-foot area. In addition to the drums, one empty 500-gallon storage tank and small amounts of metal debris are located on this site. All drums at this site are aboveground and are easily accessible from Cargo Beach Road. It was noted that approximately 30 drums contain an estimated total of 746 gallons of potential POL-based products such as diesel fuel and used motor oil.

HTW to be removed and disposed of under this contract includes all containerized products found within the Cargo Beach Road Drum field. All empty containers will be left at the site for future removal.

1.7.3 Heat and Electric Power Building

Building 110 of the housing and operations area contains the central heating and power-generating facilities for the base. It is located directly inside the north perimeter road of the housing and operations area as shown on the Plans. The site consists of the building and the immediately surrounding land. The overall building dimensions are approximately 144 feet by 103 feet with 7,400 square feet of footprint area. Three banks of three large transformers each are all suspected or confirmed to contain PCB-containing fluids. One bank is in a room on the south side of the building, a second is in a room on the north side, and the third bank of transformers and six oil-filled electric switches are in an add-on room at the southwest corner. The southwest transformer room, which is of wood-frame construction, is partially collapsed. Three 5-gallon cans CON/HTW were observed in the second-floor ventilation chambers. One can was marked thinner/synthetic resin enamel and the two other cans were not marked. The Contractor is cautioned that the area contains scattered debris with nails and asbestos-containing materials.

HTW to be removed and disposed of under this contract includes three 5-gallon cans and contents, nine electrical transformers, and six oil-filled electric switches.

1.7.4 Emergency Power/Operations Building

This building housed the emergency power generation and communications equipment and is located at the western edge of the housing and operations area as shown on the Plans. The single-story building, 16,250 square feet in area, is constructed with reinforced concrete foundations and columns. Most of the exterior sheet roofing has

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Case 4

been removed by wind or by people salvaging building materials. This has resulted in extensive water damage to the interior of the building. The structural support system is generally in fair condition; however, some differential heave and settlement is visible in the floor slabs and the wall panels. Three Westinghouse transformers are located in a room on the south side of the building. In addition, there are two free-standing oil switches located north of the Emergency Power/Operations Building, one of which is empty. The oil switches are 2 feet by 2 feet by 2 feet. One unmarked 55-gallon drum is located inside the building. The contents of the 55-gallon drum are assumed to be POLs. The drum is assumed to be full.

HTW materials to be removed and disposed of under this contract are the three transformers and contents, the 55-gallon drum, and the two oil switches.

1.7.5 Paint and Dope Storage Building

The paint and dope storage building was used for storage of paint, solvents, and other miscellaneous flammable liquids. The paint and dope storage building is located to the north of the general supply warehouse as shown on the plans.

The building is a small, single-room, structurally sound wood-frame structure with a reinforced concrete floor and foundation. Siding is asbestos shingles. All doors and windows are missing, resulting in weather damage to the interior.

Approximately 150 gallons of solvents, paints, POLs, dielectric fluids, cleaners, and various other liquids are contained within the building. All of the containers are in poor condition and many labels are illegible. Many containers have leaked or are leaking. Several 1-gallon cans of electrical insulating oil were observed. Numerous other leaking containers are scattered outside of the building.

HTW to be removed and disposed of under this contract include all containers of solvents, paints, POLs, dielectric fluids, cleaners, and other liquids and solids. The one-gallon cans of electrical insulating oil shall also be removed and disposed of.

1.7.6 General Supply Warehouse and Mess Hall Warehouse

The general supply warehouse (Building 111) is a single-story building approximately 9,900 square feet in size (as shown on the Plans). The building was used to store miscellaneous materials required for general base operations, including furniture, forms, toilet paper, stationery, and cleaning fluids. The warehouse has a reinforced concrete foundation, wood-frame walls and ceiling, and a built-up roof.

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Modification P00003,
Case 4

SECTION 01010
SUMMARY OF WORK

Two of the 55-gallon drums are open and contain 1-gallon jugs of calcium hypochlorite. The other six 55-gallon drums are closed and are assumed to contain approximately 25 gallons each of POLs.

The mess hall warehouse (Building 107) is a single-story building approximately 10,200 square feet in size (as shown on the Plans). This building provided warm- and cold-storage facilities to support the adjoining mess hall operations. The warehouse has a reinforced concrete foundation, wood-frame walls and ceiling, and a built-up roof. A later addition to the north end of the warehouse has been dismantled for the building materials. The steel foundation and concrete floor are still in fair condition, but nothing remains of the walls or roof. Eight 55-gallon drums were observed in the north end addition. At least one drum has leaked. A walk-in cold storage room in this warehouse has numerous 1-gallon and 5-gallon cans of paints, solvents, and other unmarked containers. The Contractor is cautioned that the area contains scattered debris with nails and asbestos-containing materials.

The following HTW and potential HTW materials are included in this contract, for removal and disposal.

- General Supply Warehouse

- * - DELETED *
- Seven unmarked metal and poly containers of liquids;
- * - One unmarked 55-gallon drum assumed to contain POLs; and *
- Seven cases of 1-pint cans, possibly containing sodium hydroxide (heavily corroded). *
- Three gallons of Aluminum Chloride

- Mess Hall Warehouse

- * - Thirteen 1-quart bottles of isopropyl alcohol; *
- * - Twenty-six 1-quart cans of Capella oil; *
- Six 1-gallon cans of Americoat dimetcoat powder, labeled "Harmful dust"; *
- * - Two 5-gallon cans of "Multi-clean"; *
- 185 lbs of septic cleaner (enzyme/bacteria type);
- Six 5-gallon cans, heavily corroded and leaving white solid residue;
- Five 55-gallon drums, containing liquid soap;
- 1-gallon plastic jugs of calcium hypochlorite contained in two 55-gallon drums; and
- 1-gallon and 5-gallon unmarked containers of paints and solvents.

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Modification P00003,
Case 4

1.7.7 Water Supply Building

The water supply building (number 113, as shown on the Plans) is a wood-framed shingle-sided structure approximately 20 feet in height above grade with a concrete foundation extending 8 feet below grade. The building contains four cylindrical welded steel water tanks, 23 feet in diameter by 26 feet in height. The southeast corner of the building has partially collapsed, resulting in significant structural damage to all walls and the steel-truss roof system. The building contains approximately 150 gallons of asbestos cement, and 48 gallons of fire brick paint contained in 1-gallon cans. The Contractor can access the fire brick paint through the north entrance of the building. The Contractor is cautioned that the area contains scattered debris with nails and asbestos-containing materials. *

HTW materials to be removed and disposed of under this contract from the water supply building include the approximate 48 gallons of fire brick paint only. The 150 gallons of asbestos cement have been mentioned for general information only and are not to be handled under this contract. *

1.7.8 Power and Communication Line Corridors

Four main powerline and communication line corridors provided electrical power and communication from the main camp to outlying facilities. Three of the four corridors originate from the main camp and serve the direction finder building, airport terminal area, and lower tram building. The location of concern is a transformer platform located along the powerline corridor from the main camp to the lower tram building, adjacent to the White Alice site. The transformer platform and the soil beneath the platform are slightly discolored. The source of this discoloration is presumably the three former transformers.

The transformers are suspected to have contained PCBs, so the stained soil and the platform are classified as HTW and are to be removed and disposed of under this contract. The area of concern can be easily reached with equipment from the lower tram access road.

1.7.9 Direction Finder Area

The Direction Finder area is located 0.4 mile west of the Receiver Building site and 1.9 miles west of the Housing and Operations area as shown on the Plans. A 17-foot-wide by 31.5-foot-long concrete foundation is all that remains of the former wooden Direction Finder building. The area surrounding the concrete foundation contains miscellaneous building material debris. On the east side of the foundation is a 4-foot-

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Modification P00003,
Case 4

Table 1-1

**HAZARDOUS AND TOXIC WASTE ITEMIZATION
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA**

Plan Reference/ Spec Paragraph	Waste Stream	Site Name	Assumptions and/or Identification	Suggested Packaging Method ^b	Suggested Transport Method ^b	Suggested Treatment/ Disposal Method ^b	Priority ^a
* K/1.7.7	Paints	Water Supply Building	Approximately 48 gallons of fire brick paint	Lab pack in a Type-17H drum	Barge/haul	Incineration	II
* L/1.7.5	1,1,1-Trichloroethane						
M/1.7.5	PCBs	Paint and Dope Storage Building	Several 1-gallon cans of dielectric fluid	Composite liquids into a Type-17E drum	Barge/haul	Incineration	II
N/1.7.6	Calcium hypochlorite	General Supply Warehouse and Mess Hall Warehouse	1-gallon plastic jugs contained in two 55-gallon drums	Overpack in an 82-gallon salvage drum	Barge/haul	TBD by TSD	II
O/1.7.6	Bromochloromethane						
P/1.7.6	Oxalic Acid	General Supply Warehouse and Mess Hall Warehouse	Several plastic jugs	Lab pack in a Type-17H drum	Barge/haul	TBD by TSD	II
* Q/1.7.6	Sodium Hydroxide	General Supply Warehouse and Mess Hall Warehouse	Seven cases of 1-pint cans	Lab pack in a Type-17H drum	Barge/haul	TBD by TSD	II
* R/1.7.6	Isopropyl Alcohol	General Supply Warehouse and Mess Hall Warehouse	Thirteen 1-quart bottles	Cardboard box approved for shipping	Barge/haul	Incineration	II
S/1.7.6	Paints, solvents, and POLs	General Supply Warehouse and Mess Hall Warehouse	Approximately 50 containers of various sizes	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	II
T/1.7.4	POLs	Emergency Power/Operations Building	One 55-gallon drum	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	III
U/1.7.5	Paints, solvents, and POLs	Paint and Dope Storage Building	Approximately 150 gallons of paints, solvents, and POLs	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	II

01010-12
2-23

HTW Removal at NE Cape,
St. Lawrence Island, Alaska

<u>Item</u> <u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>
1.	Mobilization and Demobilization, complete.	1	Job
2.	Remove and disposal of PCB wastes.		
*	a. PCB Liquids.	537.5	gal
*	b. PCB containers/ material.	15,685	lb
	c. PCB-contaminated soil.	1	Job
* 3.	Removal and disposal of petroleum, oils and lubricants.	746.25	gal
4.	Removal and disposal of other HTW.		
*	a. 1, 1, 1 - Trichloroethane.	0	gal
*	b. Paint, paint-related materials, and solvents.	455.5	gal
*	c. Calcium hypochlorite.	323	lb
*	d. Bromochloromethane.	0	gal
*	e. Oxalic acid.	16	lb
*	f. Sodium Hydroxide.	184	lb
*	g. Isopropyl alcohol.	3.125	gal
	h. Compressed gas cylinders.	1	Job
*			

DACA85-93-C-0048
Modification P00003,
Case 4

CONTRACT SCHEDULE

DACA85-93-C-0048

HTW Removal at NE Cape,
St. Lawrence Island, Alaska

<u>Item</u> <u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Unit</u>
---------------------------	--------------------	------------	-------------

ADDITIVE ITEMS

1A.	Modification P00001, Case 2, Final Field Report.	1	Job
2A.	Modification P00002, Case 5, Additional HTW.	1	Job
* 3A.	Modification P00003, Case 4, PCB Containers/ Material Variation.	1	Job

*

*

DACA85-93-C-0048
Modification P00003,
Case 4



**Northwest
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Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # 210-5689 Date 07-30-94 Page 1 of 3

Client Coops of Engineers (NE. Cape)

Drum ID# 14 Sample # NEC 116

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

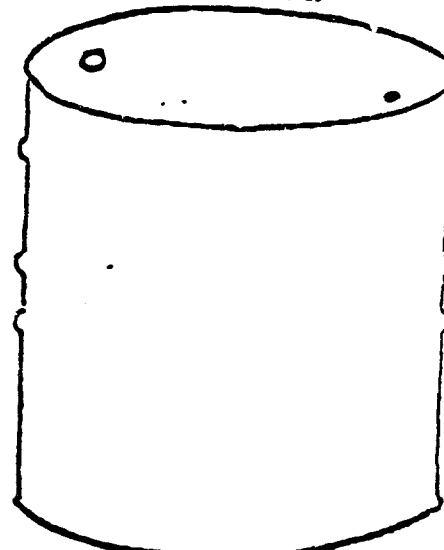
Type of Drum: Fiber Steel
 Open Top Tight Head
 Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, markings, scratches, etc., to the drum here!



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

Description of Drum (Drum label, markings and conditions): _____

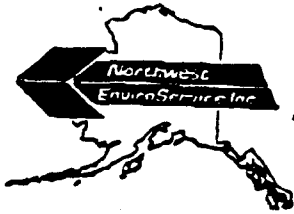
Overpack Needed? Yes No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 28

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
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**Northwest
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Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ 15 _____ Sample # _____ NEC 116 _____

Drum Size: _____ 85 gallon _____ 55 gallon _____ 42 Gallon _____ 30 gallon
_____ 15 gallon _____ 5 gallon _____ Other _____

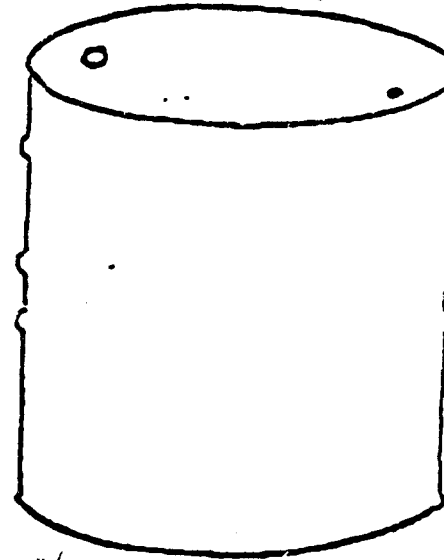
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

Describe location of any dents, markings, scratches, etc., to the drum here)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: _____ Empty (<1" residuals) _____ 1/4 _____ 1/2 _____ Full

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 23

Sampled by: _____ Witness: _____





Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ 16 _____ Sample # NEC 116

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

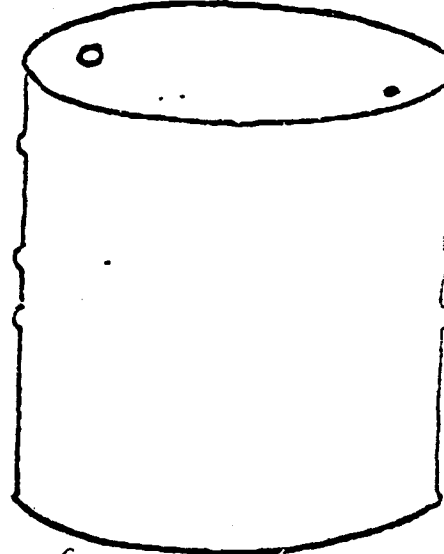
Type of Drum: Fiber Steel
 Open Top Tight Head
 Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, corrosion, etc., to the drum here:



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full X

Description of Drum (Drum label, markings and conditions): _____

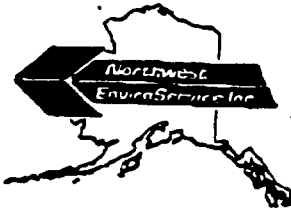
Overpack Needed? Yes No Size of overpack _____

Compatibility Group: _____ Composite Number: PSL 23

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
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P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090





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INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# POL 17 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

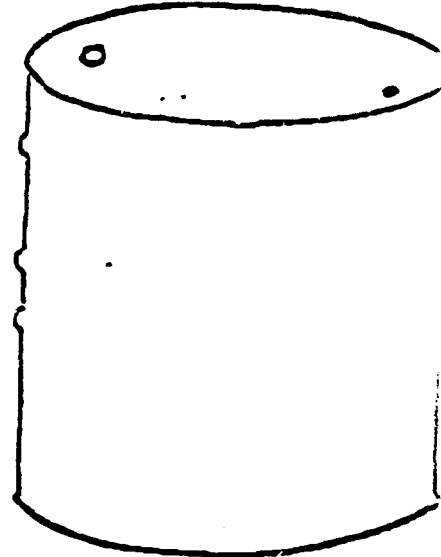
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here.



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

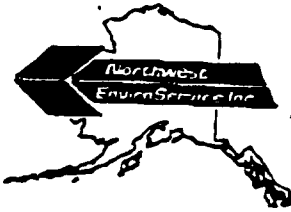
Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 29

Sampled by: _____ Witness: _____





Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ 19 _____ Sample # _____

Drum Size: _____ 85 gallon _____ 55 gallon _____ 42 Gallon _____ 30 gallon
_____ 15 gallon _____ 5 gallon _____ Other _____

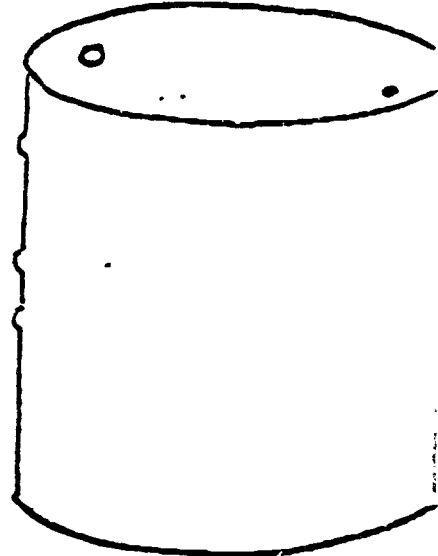
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here:



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: _____ Empty (<1" residuals) _____ 1/4 _____ 1/2 _____ Full _____

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 29

Sampled by: _____ Witness: _____

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**Northwest
EnviroService
Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ 19 _____ Sample # _____

Drum Size: _____ 85 gallon _____ 55 gallon _____ 42 Gallon _____ 30 gallon
_____ 15 gallon _____ 5 gallon _____ Other _____

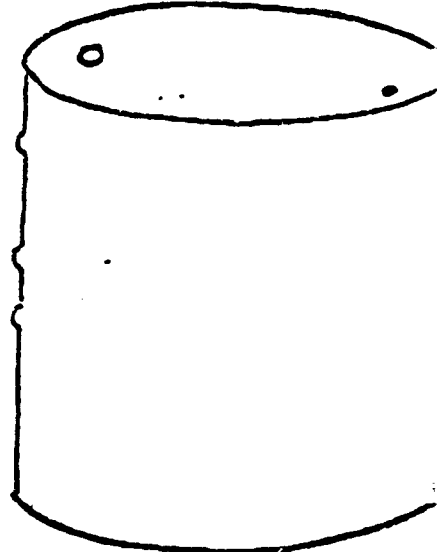
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here)



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: _____ Empty (<1" residuals) _____ 1/4 _____ 1/2 _____ Full _____

Description of Drum (Drum label, markings and conditions): _____

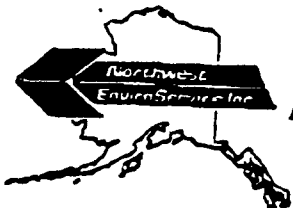
Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 29

Sampled by: _____ Witness: _____

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P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090





Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 20 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

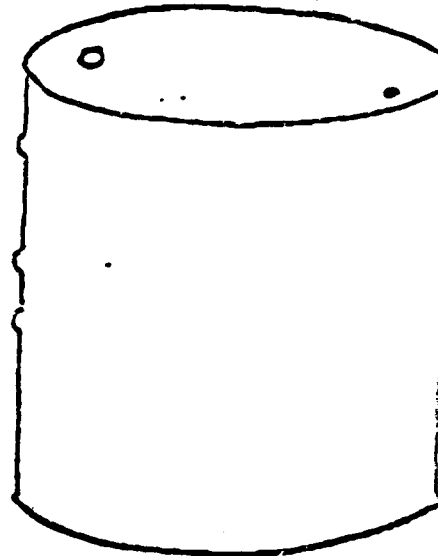
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here:



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 30

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-8905
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**Northwest
EnviroService
Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 21 Sample # _____

Drum Size: 85 gallon 35 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other _____

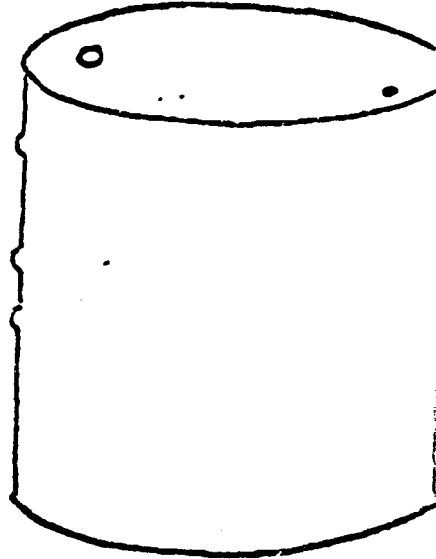
Type of Drum: Fiber Steel
 Open Top Tight Head
 Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here!



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? Yes No Size of overpack _____

Compatibility Group: _____ Composite Number: POL30

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-8805
P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090





**Northwest
EnviroService
Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 22 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other _____

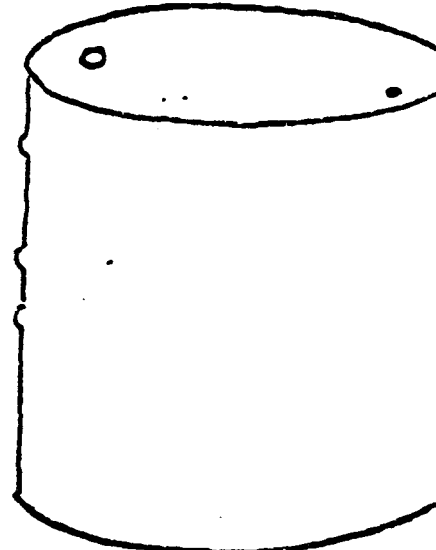
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here)



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full _____

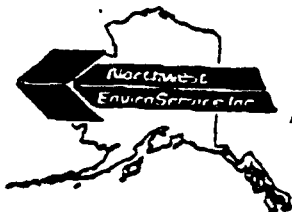
Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 30

Sampled by: _____ Witness: _____





**Northwest
EnviroService
Inc.**

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ 23 _____ Sample # _____

Drum Size: ___ 85 gallon ___ 55 gallon ___ 42 Gallon ___ 30 gallon
___ 15 gallon ___ 5 gallon ___ Other _____

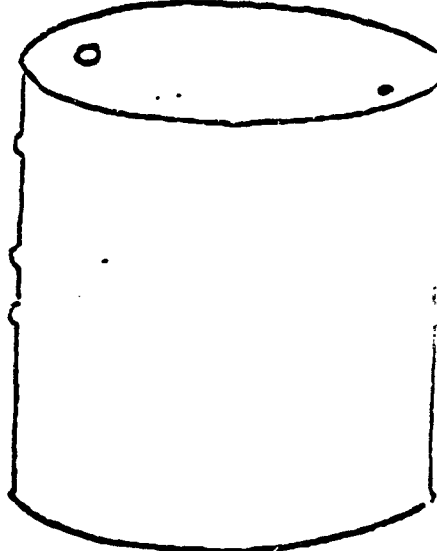
Type of Drum: ___ Fiber ___ Steel
___ Open Top ___ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

(Describe location of any dents, marks, scratches, etc., to the drum here)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: ___ Empty (<1" residuals) ___ 1/4 ___ 1/2 ___ Full _____

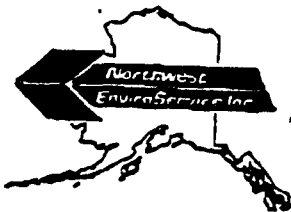
Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? ___ Yes ___ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL30

Sampled by: _____ Witness: _____





Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 24 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

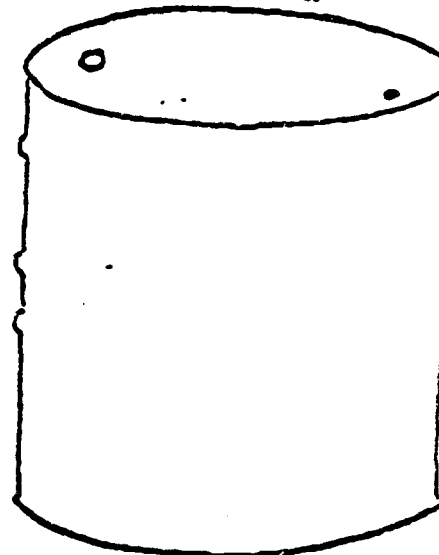
Type of Drum: Fiber Steel
Open Top Tight Head
Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks or scratches, etc., to the drum here)



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: POL 31

Sampled by: _____ Witness: _____

In-State: 1-800-478-8008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-6805
P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090



Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 05 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other _____

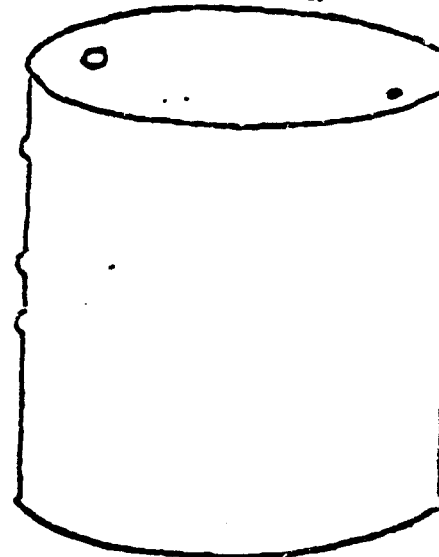
Type of Drum: _____ Fiber _____ Steel
_____ Open Top _____ Tight Head
Other _____

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here)



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full _____

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? _____ Yes _____ No Size of overpack _____

Compatibility Group: _____ Composite Number: P0631

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-8805
P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090





Northwest EnviroService Inc.

INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# 26 Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other

Type of Drum: Fiber Steel
 Open Top Tight Head
 Other

Description of Sample: _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

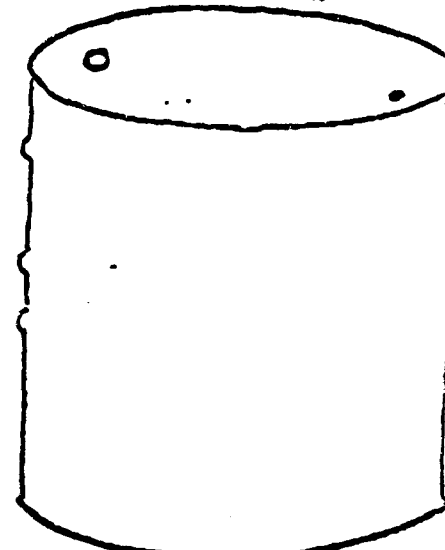
Describe location of any dents, markings, scratches, etc., to the drum here)

Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____



Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full

Description of Drum (Drum label, markings and conditions): _____

Overpack Needed? Yes No Size of overpack _____

Compatibility Group: _____ Composite Number: POL31

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-8905
P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 622-1090 • 1-800-441-1090



IIC.
INDIVIDUAL DRUM LOG SHEET

Job # _____ Date _____ Page _____ of _____

Client _____

Drum ID# _____ Sample # _____

Drum Size: 85 gallon 55 gallon 42 Gallon 30 gallon
15 gallon 5 gallon Other _____

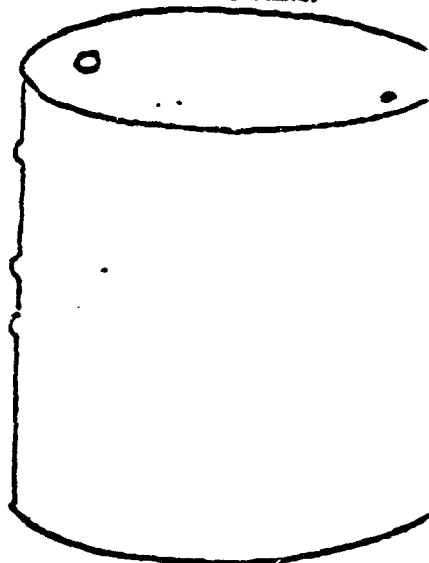
Type of Drum: Fiber Steel
 Open Top Tight Head
 Other _____

Description of Sample: 27 _____

Layer 1 (TOP)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Describe location of any dents, marks, scratches, etc., to the drum here:



Layer 2 (Middle)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Layer 3 (Bottom)

Color _____ Odor _____ Amount (Inches) _____
Liquid _____ Solid _____ Sludge _____
pH _____ % of Liquid _____

Amount in Drum: Empty (<1" residuals) 1/4 1/2 Full _____

Description of Drum (Drum label, markings and conditions):

Overpack Needed? Yes No Size of overpack _____

Competibility Group: _____ Composite Number: PDL 31

Sampled by: _____ Witness: _____

In-State: 1-800-478-9008 • Out-of-State: 1-800-927-1258
1813 E. 1st Avenue • Anchorage, AK 99501 • Phone (907) 272-9007 • FAX (907) 272-8805
P.O. Box 24443 • Seattle, WA 98124 • Phone (206) 822-1090 • 1-800-441-1090

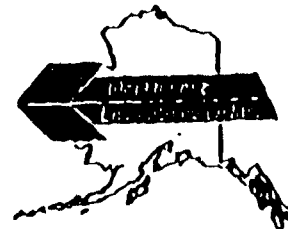


NE Cape PDL Item List

Generator Name _____

WFO / Number _____

HAZARD CLASS _____



**Northwest
EnviroService
Inc.**

From

To

Item #	Chemical Description	Container*	Size(-)	Quantity	EPA Codes	Wa Code	Disposal
24	Fuel Oil + Oil	14		18			
25	Water + Oil	14		20			
15	Water + Oil	14		14			
14	Water + Oil	15		38			
11	Water + Oil	15		14			
13	Water + Oil	16		52			
10	Water + Oil	17		34			
20	Water + Oil	17		18			
22	Oil	18		36			
23	Oil	18		16			
26	Oil	19		35			
27	Oil	19		17			
8	Oil	20		35			
9	Oil + Water	20		18			
7	Oil + Water	21		52			
6	Oil + Water	22		30			
4	Water + Oil	22		22			
3	Water + Oil	23		37			
19	Water + Oil	23		15			
2	Oil + Water	24		52			
1	Oil + Water	25		30			
12	Oil	25		22			
16	Water + Oil	26		52			

*metal -Pint(Pt) -Pound(Lb)
 *plastic -Gallon(Gal) -gram(gr)
 *glass -Kilogram(kg) -ounce(oz)

3

3.0 Photographic History

The following photographs were taken before, during and near the conclusion of the 1994 waste removal project. Not shown are periods of intense rainfall and heavy snowfall that has taken a toll on the buildings making a safe project approach difficult. Also not shown are the dark corners and walk-in coolers that contained many of the paints and solvents that were identified and consolidated into either POL or paint related material pay items.



Fig. 3.1
Collapsed roof on transformer room of Bldg. 110 viewed easterly on 9/4/93 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on contract DACA85-93-C-0048.



Fig. 3.2
Roof debris removed exposing transformers and switches at Building 110; viewed northeasterly on 7/20/94 at Northeast Cape St. Lawrence Island, Alaska. Photographed by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.3
Western set of switches with first set of transformers under collapsed roof at Building 110 viewed northeasterly and photographed by Larry Wilkinson, Northwest EnviroService, Inc. on 9/4/94 at Northeast Cape, St. Lawrence Island, Alaska on Contract DACA85-93-C-0048.



Fig. 3.4
Stained floor in Building 110 which previously housed transformers and switches. Viewed in easterly direction. Photo taken at Northeast Cape, St. Lawrence Island, Alaska on 7/20/94 by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.5
Western set of switches exposed with roof removed at Building 110 at Northeast Cape of St. Lawrence Island, Alaska viewed northeasterly and photographed on 7/19/94 by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.6
Close view of switch assemblies at Building 110 viewed northeasterly on 7/19/94 at Northeast Cape, St. Lawrence Island, Alaska by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.7
Valve and plug system inside switch inside Building 110 viewed northeasterly on 7/18/94 at Northeast Cape, St. Lawrence Island, Alaska by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.8
Switch being drained inside Building 110 viewed northeasterly at Northeast Cape, St. Lawrence Island, Alaska on 7/18/94 by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.9
Western set of switches under collapsed roof at Building 110 viewed westerly at Northeast Cape, St. Lawrence Island, Alaska on 9/4/93 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.10
Western set of switches with roof removed at Heat and Electric Power Building at Northeast Cape on St. Lawrence Island, Alaska viewed northerly and photographed on 7/20/94 by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.11
Transformer room redesign in progress following asbestos shingle relocation; viewed northeasterly on 7/16/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.12
New doorway on transformer room; viewed southeasterly on 7/16/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.13
Southern set of transformers inside Building 110 viewed southerly on 9/4/93 by Larry Wilkinson, Northwest EnviroService, Inc. on St. Lawrence Island, Alaska on Contract DACA85-93-C-0048.



Fig. 3.14
Transformers inside Building 98 viewed southerly on 9/4/93 by Larry Wilkinson, Northwest EnviroService, Inc. on St. Lawrence Island, Alaska on Contract DACA85-93-C-0048.



Fig. 3.15
Cargo Beach Road winding up towards White Alice site and base of Kangukhsam Mtn. at Northeast Cape on St. Lawrence Island, Alaska. Steel pipeline to right of road and steel drums to the left of the road. Viewed southerly on 9/4/93 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.16
Closer view of steel drums and other debris on the east side of Cargo Beach Road at Northeast Cape, St. Lawrence Island, Alaska. Photographed in southerly direction by Larry Wilkinson, Northwest EnviroService, Inc. on 9/4/93 on Contract DACA85-93-C-0048.



Fig. 3.17
Steel drums and a steel tank on the west side of Cargo Beach Road at Northeast Cape, St. Lawrence Island, Alaska. Air Terminal Building remnants in background. Photographed in westerly direction by Larry Wilkinson, Northwest EnviroService, Inc. on 9/4/93, on Contract DACA85-93-C-0048.



Fig. 3.18
Closer view of steel drums on the west side of Cargo Beach Road at Northeast Cape, St. Lawrence Island, Alaska. Viewed in northwesterly direction by Michael Naquin, Northwest EnviroService, Inc. on 7/14/94 on Contract DACA85-93-C-0048.



Fig. 3.19
General Supply Warehouse with missing roof adjacent to Building 110 at Northeast Cape, St. Lawrence Island, Alaska; viewed southeasterly on 9/4/93. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.20
Barracks with missing asbestos shingles behind Building 110; viewed northeasterly on 9/4/93 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.21
Paint and Dope Storage Building from deck of General Supply Warehouse viewed northeasterly on 7/6/94. Photographed at Northeast Cape, St. Lawrence Island, Alaska by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.22
Western entrance to Paint and Dope Storage Building with new sampling well marked with red flag, viewed easterly on 7/6/94. Photographed at Northeast Cape, St. Lawrence Island, Alaska by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.23
Local warning sign in Siberian Yupik on outer wall of Paint and Dope Storage Building, viewed westerly on 9/4/93 at Northeast Cape on St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.24
Scattered paint cans and debris inside Paint and Dope Storage Building, viewed northerly on 9/4/93 at Northeast Cape on St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.25

Four (4) rusty drums containing soap on deck of General Supply Warehouse viewed southerly on 9/4/93 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.26

Calcium hypochlorite in broken plastic bottles in foreground on deck of General Supply Warehouse. Viewed southerly on 9/4/93 on Northeast Cape, St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.27
Construction camp site at foot of Kangukhsam Mtn. at Northeast Cape on St. Lawrence Island, Alaska. In foreground is water storage tank in historically wind damaged building. Viewed southerly and photographed on 7/6/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C00048.



Fig. 3.28
Four-man weatherport, local transportation, heating oil and other amenities. White Alice antennas in background, viewed northeasterly on 7/6/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.29
Wind damage to food storage cache following 70 - 90 mph windstorm at construction camp. Viewed westerly on 7/7/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.30
Front end of weather port in pivoted position after 70 - 90 mph windstorm at construction camp. Viewed northerly on 7/7/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Michael Naquin, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.31
Removal of oil-stained timbers on transformer platform viewed northwesterly along Power and Communications Line Corridor on 7/11/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.32
Removal of oil-stained timbers over oil-stained pit from which soil was excavated. Viewed westerly along Power Corridor on 7/11/94 at Northeast Cape, St. Lawrence Island, Alaska. Photographed by Chuck Heath, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.33
Decontamination materials in controlled area in Building 110 at Northeast Cape, St. Lawrence Island, Alaska. Viewed southwesterly and photographed on 7/29/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.34
Skyvan for hauling supplies and empty drums into site. Parked on tarmac at Nome Airport viewed southerly on 7/6/94. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.

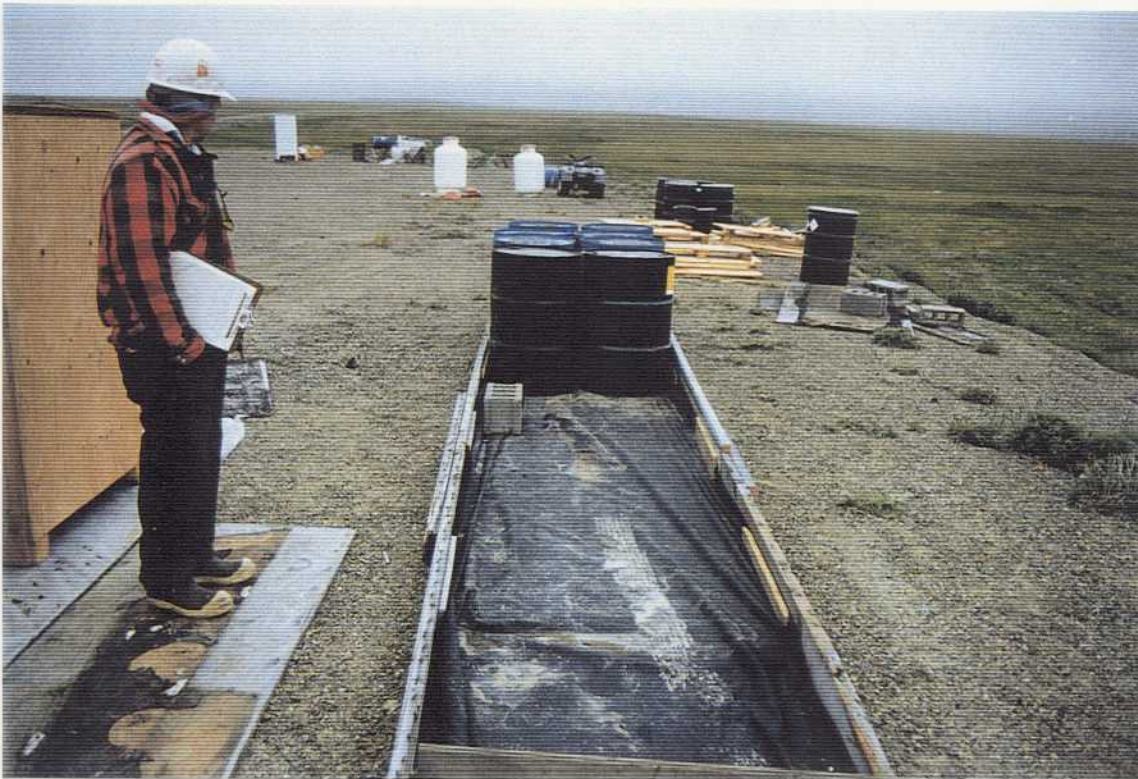


Fig. 3.35
Bermed and lined storage area for flammable liquids at Northeast Cape, St. Lawrence Island, Alaska. Viewed southerly and photographed on 7/30/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.36
Flammable wastes packaged, labelled and marked per USEPA and USDOT regulations. Viewed southerly at staging area at Northeast Cape on St. Lawrence Island, Alaska on 7/30/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.37
Drained and Crated PCB transformers awaiting labels and markers at Northeast Cape on St. Lawrence Island, Alaska. Viewed southerly on 7/30/94. Photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.38
Overpacked PCB contaminated oil staged at airstrip on Northeast Cape, St. Lawrence Island, Alaska. Viewed southerly and photographed on 7/30/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.



Fig. 3.39
Weighing station in Staging Area along airstrip at Northeast Cape, St. Lawrence Island, Alaska. Viewed southerly and photographed on 7/30/94 by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.

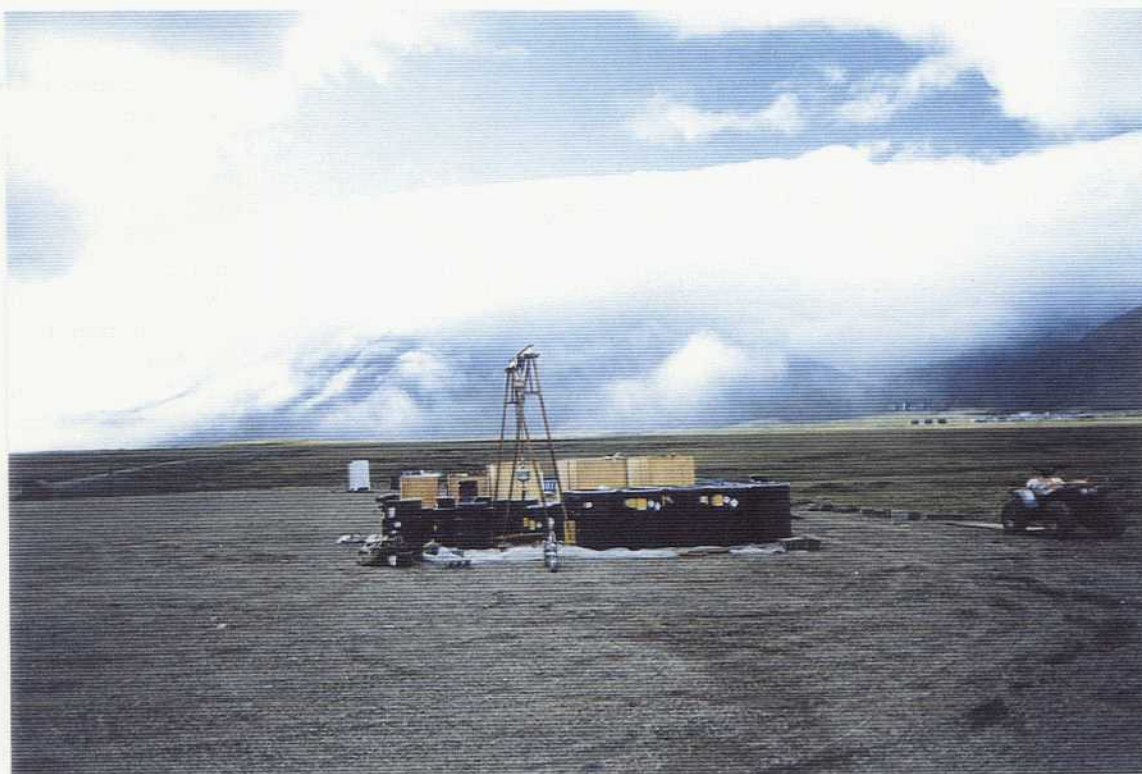


Fig. 3.40
Consolidated total outgoing shipment of wastes assembled at staging area at Northeast Cape, St. Lawrence Island, Alaska. Viewed southeasterly and photographed by Larry Wilkinson, Northwest EnviroService, Inc. on Contract DACA85-93-C-0048.

4

4.0 Government Quality Assurance Report

Project quality goals were emphasized at the Pre-construction conference and maintained throughout the project. The project was performed without lost time injuries and all objectives were met.

This section of the final report contains the Minutes of the Pre-construction conference and the joint statement on the Completion Phase of the Northeast Cape Project.

Your Copy

PRE-CONSTRUCTION CONFERENCE MINUTES

SUBJECT: Contract DACA 85-93-C-0048, HTW Removal, North East Cape, St. Lawrence Island, AK. Northwest EnviroService, Inc.

CONFEREES:

Ken Larson	Corps of Engineers
John Jacobson	Corps of Engineers
Douglas Blaisdel	Corps of Engineers
CPT Mike Malsom	Corps of Engineers
Ron Broyles	Corps of Engineers
Bob Couch	ADEC
Larry Wilkinson	NW Enviro
Tom Poliquin	NW Enviro
Edward Erickson	NW Enviro

1. Purpose of Conference:

The purpose of the conference is to orient you, the Contractor, regarding Corps of Engineers procedure, policy, and line of authority for contractual, administrative, and construction matters. This review of the contract clauses and technical requirements, which may not be familiar to the Contractor personnel, should reduce problems involved in executing the contract.

2. A brief summary of the basic contract data follows to familiarize all conferees with the construction project:

a. Scope of Work:

The contract generally consists of furnishing the necessary plant, materials, and equipment to identify, remove, and dispose of PCB liquids, containers, and a minor quantity of contaminated soil. He will also be required to identify, remove, and dispose of POL liquids and other hazardous liquid wastes in accordance with the requirements of the drawings and specifications.

b. Contractor: Northwest EnviroService, Inc.

c. Contract award date: September 30, 1993.

d. Notice to Proceed date: October 13, 1993.

- e. **Contract amount:** \$298,744.00
- f. **Completion time set forth by SCR-1:** 365 days (October 13, 1994).
- g. **Government Representatives for this contract:**
 - (1) **Contracting Officer:** James J. Rich
 - (2) **Administrative Contracting Officer:** Ken L. Larson
 - (3) **HTRW Section Chief:** John Jacobson
 - (4) **Project Engineer:** CPT. Dave Weston
 - (5) **Project Quality Assurance Representative[s]:** Ron Broyles

3. The conference will be divided into four parts:

The first segment will be devoted to general administrative procedures and contract clauses. The second and third parts will be devoted to quality control and safety, respectively. The remainder of the conference will be devoted to discussion of technical matters. A site visit after the conference will be coordinated by the Project Engineer, if necessary.

4. Lines of Communication:

a. The Corps of Engineers will handle all coordination with the using service. The using service has no authority for contract administration except as may be involved with providing utilities for use by the Contractor. The Corps of Engineers deals only with the prime Contractor. The head of the Contractor field organization should coordinate all on-site problems with the Government Quality Assurance Representative or Project Engineer. If problems cannot be solved in the field, the Contractor should request a meeting with the Contracting Officer's Representative. The Contractor shall not contact District Office personnel unless previous arrangements have been made through the Administrative Contracting Officer's office. Correspondence on disputes and claims may be directed to the Contracting Officer; however, such correspondence should be forwarded through the Fairbanks Resident Office.

b. Subcontractors coordinate with the prime Contractor. The subcontractor shall not contact Corps of Engineers personnel unless specific arrangements have been coordinated with the prime Contractor.

5. Official address of the Contracting Officer's Representative is:

Fairbanks Resident Engineer
U.S. Army Engineer District, Alaska
P.O. Box 35066
Fort Wainwright, Alaska 99703-0066

Telephones: 353-7065
353-7062

All correspondence must consist of the original and two copies. Contract number and title should appear on all correspondence. The Contractor shall establish a serialized number identification for all his letters.

6. Specific FAR and Special Contract Requirements will now be addressed:

a. FAR 52.243-0001 III (Changes--Fixed-Price):

(1) The Contracting Officer may at any time, by written order and without notice to the sureties, if any, make changes within the general scope of this contract in the services to be performed.

(2) If any such change causes an increase or decrease in the cost of, or the time required for, performance of any part of the work under this contract, whether or not changed by the order, the Contracting Officer shall make an equitable adjustment in the contract price, the delivery schedule, or both, and shall modify the contract.

(3) The Contractor must assert its right to an adjustment under this clause within 30 days from the receipt of the written order. However, if the Contracting Officer decides that the facts justify it, the Contracting Officer may receive and act upon a proposal submitted before final payment of the contract.

(4) If the Contractor's proposal includes the cost of property made obsolete or excess by the change, the Contracting Officer shall have the right to prescribe the manner of the disposition of the property.

(5) Failure to agree to any adjustment shall be a dispute under the Disputes clause. However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

(6) No services for which an additional cost or fee will be charged by Contractor shall be furnished without the prior written authorization of the Contracting Officer.

b. FAR 52.236-2 (Differing Site Conditions):

(1) You must promptly *and before the conditions are disturbed* notify the Contracting Officer (Contracting Officer's Representative) *in writing* of any differing site conditions so that an official determination may be made.

(2) No claim shall be allowed under this section of specifications unless the Contractor has given required notice.

c. FAR 52.249-8 (Default--Fixed Price Supply and Service):

Briefly, this clause gives the Government the right to terminate this contract in whole or in part if the Contractor fails to:

(1) Deliver the supplies or services within the time specified in this contract or any extension;

(2) Make progress, so as to endanger performance of this contract;

(3) Perform any of the other provisions of this project.

d. FAR 52.233-1 (Disputes):

This clause gives you the administrative right to protest any decision of the Contracting Officer. If a problem is elevated to the Contracting Officer and a decision rendered, the Contractor has 30 days in which to appeal his decision.

e. FAR 52.232-25 (Prompt Payment):

Notwithstanding any other payment clause in this contract, the Government will make invoice payments and contract financing payments under the terms and conditions specified in this clause. Payment shall be considered as being made on the day a check is dated or an electronic funds transfer is made. All days referred to in this clause are calendar days, unless otherwise specified.

f. FAR 52.203-3 (Gratuities):

You or your people must not offer any gift or favor to any Government person that may be considered a gratuity. The results of such offer or acceptance might lead to serious penalties inflicted on both the Contractor and the Government employee involved.

g. FAR 52.244-1 (Subcontracts--Fixed Price Contracts):

(1) This clause does not apply to firm-fixed-price contracts and fixed-price contracts with economic price adjustment. It does apply to subcontracts resulting from unpriced modifications to such contracts.

(2) "Subcontract," as used in this clause, includes but is not limited to purchase orders, and changes and modifications to purchase orders. The Contractor shall notify the Contracting Officer reasonably in advance of entering into any subcontract if the Contractor does not have an approved purchasing system and if the subcontract:

(a) Is proposed to exceed \$100,000.00; or

(b) Is one of a number of subcontracts with a single subcontractor, under this contract, for the same or related supplies or services, that in the aggregate are expected to exceed \$100,000.00.

(3) The Contractor shall obtain the Contracting Officer's written consent before placing any subcontract for which advance notification is required.

(4) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.

h. FAR 52.248-1 III (Value Engineering):

This clause outlines the Value Engineering Program. Your participation in this program is solicited and encouraged. The clause indicates the percentage and the method of computing the monetary values. Value engineering is an organized effort directed at analyzing the function of construction, systems, equipment, and supplies to achieve the required function at the lowest overall cost consistent with the requirements for performance, reliability, and maintainability.

i. Labor Relations:

(1) The labor standards required by this contract are contained in the Register of Wage Determination under the Service Contract Act with rates of wages included, FAR 52.222-3 (Convict Labor) and FAR 52.222-26 (Equal Opportunity).

(2) The booklet "Labor Relations, Information, and Instructions for Construction Contractors" (published by the District Engineer, Alaska) contains further detailed information of requirements which must be satisfied concerning labor relations.

(3) FAR's 52.222-26, 52.222-35, 52.222-36, 52.219-8, and 52.219-13 govern affirmative action, minority hire, and small business utilization administrative requirements.

(4) The following posters and forms must be displayed on a bulletin board in a conspicuous place on the job site, protected from the elements:

(a) WH Publication 1321 (Federal): Notice to employees regarding minimum wages.

(b) OFCCP 1320 (Federal): Equal opportunity employment.

(c) DOSH 2003 (State): Safety and health protection on the job.

(d) DOSH 51 (State): Emergency information.

(e) AS.18.60.068 (State): Right to know about toxic and hazardous substances.

(f) DOSH 200 (State): Log and summary of occupational injuries and illnesses.

(5) Employment of Military Personnel by Contractors:

Occasionally, a construction Contractor employs military personnel from the installation at which work is being done. When this occurs, the Contractor labor standards apply to the employment. Military regulations require that personnel to be thus employed obtain permission from their local Commander *in writing* before they go to work.

7. Quality Control:

The following Special Contract Requirements deal with Quality Control, Construction Progress Chart and Submittals.

TS 01440 (Contractor Quality Control):

(1) This clause requires that you must provide and maintain a system to assure that the work performed is in compliance with the contract requirements. You are required to furnish necessary control through management, superintendence, and inspection using a systematic application of methods, inspection techniques, testing procedures, and documentation to assure that all of the materials, equipment, and workmanship conform to contract requirements.

(a) Your management personnel are urged to read this clause carefully and set forth the necessary controls to ensure quality construction.

(b) A follow-up conference will be held prior to any on-site construction to discuss in detail your Quality Control Plan.

(2) Government Inspection:

The Contracting Officer's Representative is the field representative of the District Engineer and has full authority to inspect and accept or reject your work within the terms of your contract.

(3) TS 01305, SUBMITTALS (ER 415-1-10, 30 June 1991):

(a) Within 30 days after receipt of Notice to Proceed, the Contractor shall complete and submit to the Contracting Officer, in triplicate, submittal register ENG Form 4288 listing all submittals and dates. In addition to those items listed on ENG Form 4288, the Contractor shall furnish submittals for any deviations from the plans or specifications. The scheduled need dates must be recorded on the document for each item for control purposes. In preparing the document, adequate time (a minimum of 30 days) shall be allowed for review and, only when stipulated, approval and possible resubmittal. Scheduling shall be coordinated with the approved progress schedule. The Contractor's Quality Control representative shall review the listing at least every 30 days and take appropriate action to maintain an effective system. Copies of updated or corrected listings shall be submitted to the Contracting Officer at least every 60

days in the quantity specified. Payment will not be made for any material or equipment which does not comply with contract requirements.

8. Safety and Accident Prevention:

a. Purpose of the Safety Program:

- (1) To ensure that proper safety and health precautions are taken to protect the work, the workers, the Government, and the property of others from injury or damage.
- (2) To ensure that management and Contractor personnel become conscious of and apply safe procedures in connection with their normal duties.
- (3) To eliminate hazardous conditions.
- (4) To reduce the frequency and severity of accidents.
- (5) It is called to your attention that the Project Engineer and the Quality Assurance Representative have full authority to stop work on any portion of the project when unsafe practices endanger property or personnel.

b. Job Hazard Analysis:

This is a program intended to prevent accidents by early recognition of possible accident-producing construction activities and alerting of Contractor supervision so that protective measures can be taken.

9. Technical Specifications:

This part of the conference is open for discussion regarding technical specifications and drawings. It is to be noted that answers regarding technical matters will be returned in writing at a later date.

- a. Contractor must coordinate with the North Pacific Division (NPD) lab in Troutdale, Oregon before sampling begins. The lab should receive a ten day advance notice for all

May 24, 1994

samples sent to them. The Point of Contact (POC) for the NPD lab is Pam Hertzberg (503) 666-8143, Fax (503) 665-0371. The address of the NPD lab is:

U.S. Army Corps of Engineers
North Pacific Division Laboratory
1491 NW Graham Avenue
Troutdale, Oregon 97060-9503

- b. Ken Larson wanted to ensure that you had two personnel certified in First Aid and CPR on site at all times.
- c. Need to select a Corps approved sampling lab and notify this office of the selection as soon as possible.
- d. Ensure that your key personnel meet the qualifications outlined in the contract.
- e. Revise the approved construction progress chart to show new project start and completion date.
- f. Need to complete your testing summary list referenced in your Contractor Quality Control Plan.

10. Acknowledgements:

Contractor's Representative

Government's Representative

Date

Date

COMPLETION PHASE

HTW REMOVAL AT NE CAPE,
ST. LAWRENCE ISLAND, ALASKA

DACA-85-93-C-0048

On August 2, 1994 the five Definable Features of work were completed on the HTW Removal at NE Cape by Northwest EnviroService, Inc.

The Corps of Engineer's QAR, Ron Broyles and CQC, Chuck Heath verbally agreed on the completion phase of each feature of work. Due to a severe windstorm which destroyed a vital portion of the State Wide Services Camp, frantic efforts were made to complete the contracted work and evacuate the island, necessitating the delay of final paperwork due to the hasty departure.

However, a complete itemized list of all work accomplished is included at the end of this report. All drum sizes, volumes, weights, and amounts have been agreed upon by both the QAR, Mr. Broyles, and the CQC, Chuck Heath. The figures for these fact sheets were prepared jointly by Mr. Broyles, QAR and Mr. Heath, CQC.

All field testing and categorization of HTWs has been completed. Samples of newly found suspected HTWs which are not addressed in the contract have been sent to Northwest EnviroService in Anchorage.

The removal of PCB liquids, containers, and materials has been completed. All PCB fluids, containers, and materials are in either drums or in crates at the Airfield Site Staging Area awaiting transportation to Nome by aircraft. All crates are banded and labeled. Approximately three drums still need additional shipping labels. They will be attached to the drums when the Site Superintendent and CQC return to NE Cape to supervise the loading of the HTWs for shipment.

The removal of the PCB contaminated soil and the transformer platform has been completed. The soil has been packed into an 85 gallon drum and the debris from the platform also packed in an 85 gallon drum.

The removal of petroleum oils and liquids has been completed. Approximately 730 gallons of POLs were removed from the Cargo Beach Road Drum Field. Appropriate tests were done on composite samples from the 14 drums taken from the Drum Field.

The removal of paints and various other HTWs has also been completed. All are either lab packed or overpacked, labeled, and stored in the Airfield Staging Area awaiting transportation from the island. Some of the HTWs on this Definable Feature were not found in the actual quantity specified in the contract while, on the other hand, a greater amount of other agents was found. The statistics at the end of this report will show the differences.

All work sites were policed as to litter, debris, and possible contaminants. All debris and possible HTWs were packed into drums and properly labeled as to their contents. The Gantry Crane used in removal and weighing processes will be disassembled when the Site Superintendent and the CQC return to the island.

Chuck Heath, CQC Systems Manager

Chuck Heath 8/3/90

CRATES & TRANSFORMERS
WEIGHED ON 11/28/94

Northeast Cape Crate Weights

Crate Number	Net Weight (lbs)	Gross Weight (lbs)	Net Weight (Kg)	Gross Weight (Kg)	Crate # (size)	Comments
110T1	547	687	249	312	5	
110T2	550	690	250	314	5	
110T3	533	675	242	306	5	
110T4	871	1052	396	476	4	
110T5	859	1040	390	473	4	
110T6	826	1057	398	480	4	
110T7	1152	1388	524	631	2	
110T8	1308	1544	595	702	2	
110T9	1300	1536	591	698	2	
98T10	1156	1392	525	633	2	
98T11	1148	1384	522	629	2	
98T12	1130	1366	514	621	2	
AT13	389	529	177	240	5	
AT14	390	530	177	241	5	
AT15	390	530	177	241	5	
DT16	560	700	255	293	5	
110S1-6	0	0	0	0		
<u>Totals</u>	13159	15998	5981	7272		

2 Crates - 236 lbs.

4 Crates - 181 lbs.

5 Crates - 140 lbs.

North East Cape Drum Weights

Drum Number	Drum Size	Drum Volume (gal)	Net Fluid Weight (lbs)	Gross Weight (lbs)	Net Weight (Kg)	Gross Weight (Kg)	Comments
NEC01	85-1A2	37.25	494	609	225	277	Contents from transformer 110T1, 110T2
NEC02	85-1A2	37.25	495	610	225	277	Contents from transformer 110T2, 110T3
NEC03	85-1A2	47.00	603	718	274	326	Contents from transformer 110T4
NEC04	85-1A2	49.25	626	741	285	337	Contents from transformer 110T5
NEC05	85-1A2	51.00	667	782	303	355	Contents from transformer 110T6
NEC06	85-1A2	39.00	505	620	230	282	Contents from transformer 110T7
NEC07	85-1A2	23.50	542	657	246	299	Contents from transformer 110T8
NEC08	85-1A2	23.50	546	661	248	300	Contents from transformer 110T9
NEC09	85-1A2	55.00	729	844	331	384	Contents from transformer 98T10, 98T11
NEC10	85-1A2	55.00	710	825	323	375	Contents from transformer 98T10, 98T12
NEC11	85-1A2	35.50	256	371	116	169	Contents from transformer AT13, AT14
NEC12	85-1A2	37.25	275	390	125	177	Contents from transformer AT14, AT15
NEC13	85-1A2	47.00	404	519	184	236	Contents from Switches 110S1-6 (67,000 ppm)
NEC14	85-1A2	22.50	411	489	187	222	PRM VI, 6 - 5 gal & 15 - 1gal = 22.5 gal
NEC15	85-1A2	32.00	476	554	216	252	PRM VII 2 - 6 gal & 4 - 5 gal = 32gal
NEC16	85-1A2	36.00	634	712	288	324	PRM VIII, 6 - 6gal = 36 gal
NEC17	55-1A2	28.00	345	395	157	180	PRM I, 32 - 1 gal = 28 gal
NEC18	55-1A2	21.25	298	348	135	158	PRM II, 32 - 1gal = 21.25 gal
NEC19	55-1A2	27.75	404	454	184	206	PRM III, 32 - 1gal = 27.75 gal
NEC20	55-1A2	14.00	308	358	140	163	PRM IV, 32 - 1gal = 14 gal
NEC21	55-1A2	25.00	362	412	165	187	PRM V, 30 - 1gal = 25 gal
NEC22	55-1A2	27.25	292	342	133	155	LTX I, 32 - 1gal = 27.25 gal
NEC23	55-1A2	31.25	323	373	147	170	LTX II, 32 - 1gal = 31.25 gal
NEC24	55-1A2	31.00	316	366	144	166	LTX III, 32 - 1gal = 31 gal
NEC25	55-1A2	32.00	310	360	141	164	LTX IV, 32 - 1gal = 32 gal
NEC26	55-1A2	12.25	141	191	64	87	LTX V, 28 - 1gal = 12.25 gal
NEC27	55-1A2	N/A	70	120	32	55	Multiclean (turned out to be 5 gallons of paint)
NEC28	55-1A1	N/A	303	340	138	155	Non-Chlorinated Liquids *(Double Check Contents & add pain
NEC29	5-1A2	N/A	16	26	7	12	Oxalic Acid
NEC30	5-1A2	N/A	17	27	8	12	Lye (a.k.a. Sodium Hydroxide)
NEC31	10-1A2	N/A	36	53	16	24	Alcohol
NEC32	10-1A2	N/A	66	83	30	38	Americoat
NEC33	30-1A2	N/A	167	200	76	91	Sodium Hydroxide
NEC34	30-1A2	N/A	65	98	30	45	Septic Cleaner
NEC35	30-1A2	N/A	120	153	55	70	Septic Cleaner
NEC36	30-1A2	N/A	125	158	57	72	Calcium Hypochlorite
NEC37	30-1A2	N/A	66	99	30	45	Calcium Hypochlorite
NEC38	30-1A2	N/A	131	164	60	75	Calcium Hypochlorite
NEC39	85-1A2	N/A	423	501	192	228	PCB Soil & Debris from Platform
NEC40	55-1A2	N/A	139	194	63	88	PCB Debris from Platform
NEC41	55-1A1	52	421	476	191	216	POLs
NEC42	5-1A1	50	438	493	199	224	POLs

NEC	55-1A1	49	391	446	178	203	POLs
NEC	55-1A1	54	436	491	198	223	POLs
NEC45	55-1A1	52	394	449	179	204	POLs
NEC46	55-1A1	54	398	453	181	206	POLs
NEC47	55-1A1	50	409	464	186	211	POLs
NEC48	55-1A1	53	401	456	182	207	POLs
NEC49	55-1A1	54	424	479	193	218	POLs
NEC50	55-1A1	53	409	464	186	211	POLs
NEC51	55-1A1	51	401	456	182	207	POLs
NEC52	55-1A1	52	413	468	188	213	POLs
NEC53	55-1A1	52	421	476	191	216	POLs
NEC54	55-1A1	54	432	487	196	221	POLs
NEC55	85-1A2	N/A	16	94	7	43	PCB contaminated PPE
NEC56	30-1A2	N/A	86	119	39	54	PCB Wash Water (Decon) 10-1A2 inside 30-1A2
NEC57	85-1A2	N/A	87	165	40	75	PCB contaminated trash (URS Decon Bags inside)
NEC58	85-1A2	25	240	318	109	145	PRM VI 5 - 5 gal = 25 gal
NEC59	85-1A2	25	214	292	97	133	PRM VII 5 - 5 gal = 25 gal
NEC60							PCB (Dolly)



5.0 Conclusions and Recommendations

The Northeast Cape site was a very remote site and the weather was generally stormy with high winds. A subsistence construction camp that might be suitable in many parts of Alaska was not adequate at Northeast Cape and was a frequent distraction.

The project specifications were generally adequate and were administered in such a manner as to permit additional wastes to be removed even during the short residency on the site.

One of the major assets to the site was the 3,700 ft. gravel landing strip that permitted freight movement with C-130's and DC-6's. Without such a good runway, the project could have been both more expensive and more dangerous.

There is still much demolition work to be done on the site and it should be performed soon to minimize risks from worker entry into deteriorating buildings.

Besides the Northwest EnviroService statement of conclusions, this section contains the findings and conclusions of the Health and Safety Officer.



Environmental Safety & Health of Alaska

Site Inspection Report

On June 6, 1994, at the request of Larry Wilkinson of NW EnviroService, I conducted an on-site inspection at NE Cape, St. Lawrence Island, AK. With me on this inspection was Larry Wilkinson and a Corps of Engineers representative.

The inspection was hampered by the fact that the site was covered by snow and ice. This made a visual inspection difficult, and not all the expected hazards could be located. Walking over the site was also treacherous in places. Nevertheless, most of the activities to be conducted during the acute hazard removal phase could be visualized during this inspection, and the hazards to be encountered are covered in this report, along with control methods.

The most important aspect of safety on this site will involve all workers conducting their activities in accordance with a written Health and Safety Plan ("Plan"), with a qualified individual acting in the capacity of Site Safety Coordinator. It is the responsibility of the Site Safety Coordinator to determine if a particular activity presents health and safety hazards that are not adequately covered in the Plan, or that the activities should be curtailed until additional information (such as air monitoring results) is available. If in any doubt, contact the Site Safety Officer (CIH) for direction.

General Site Hazards

The work at NE Cape is on a hazardous waste site; the safety requirements of 29 CFR 1910.120 (Alaska Code 10.0101) must be followed. This includes the requirements for training: 40-hours off-site, with a minimum of 3-days supervised activities at the start of the project on-site; supervisors must have 8-hours of supervisor training; all workers will have had 8-hours of refresher training within the past 12 months.

The work will proceed according to NW EnviroServices written Plan. This will be revised, as needed, by the Site Safety Coordinator. Any questions concerning the safety aspect of any activity must be brought to the attention of the Site Safety Coordinator immediately.

All of the buildings on the site are in poor repair, with roofs missing or in danger of falling. Many buildings are of questionable structural integrity. This hazard will be controlled by:

- 1) Informing all workers of this hazard, and that they should minimize time spent inside any structure.
- 2) Maintaining a watch on workers inside any structure, either visually, or with radio communications.

The entire site is strewn with debris which poses a tripping/fall hazard, as well as nails stuck through boards littering the site, both within and without all structures. This hazard will be controlled by:

- 1) Informing all workers of this hazard.
- 2) Providing workers with steel shank safety boots.
- 3) Ensuring that all workers have received a Tetanus booster within the past 10 years.
- 4) Having a first aid kit handy at the site.

Most of the structures are covered by Transite tiles (asbestos containing), and some piping is covered with asbestos insulation. This is in poor condition, and friable asbestos containing material (ACM) is littering the site. It will not be possible to spend time at the site without walking through asbestos contamination. This hazard will be controlled by:

- 1) Informing all workers of the presence of ACM, and the health risks associated with breathing the airborne fibers of asbestos, especially the association between asbestos exposure, smoking, and lung cancer.
- 2) Providing workers with full-face air purifying respirators (APRs) with HEPA filters. The APRs should have a nose cup and workers should use anti-fog solution on the lenses to prevent the lenses from fogging up and restricting vision. A lower level of respiratory protection may be authorized by the Site Safety Coordinator if activities are away from visible ACM contamination, or air monitoring results for a particular activity in a particular area are less than the action level for asbestos exposure.
- 3) Providing workers with disposable coveralls.
- 4) Providing workers with a decontamination scheme that includes a shower. Workers must take a full body shower each time they go through decon, before eating, drinking, smoking, or leaving the work area.
- 5) Conducting air monitoring of the workers' breathing zones using a portable pump and 25-mm filter cassette for asbestos.

The island is home to many species of animal life, some of which may be dangerous. Polar bears do come to shore off the ice pack from time to time (although this is unlikely during the time this project will be underway); small rodents and foxes may bite the unwary. To control this hazard:

- 1) Inform all workers not to approach any animal. Attempting to feed or in any other way harass any animal is a violation of State law and is strictly forbidden.
- 2) Workers must inform the Site Safety Coordinator immediately if any animal bites or scratches a worker.
- 3) Inform the Site Safety Coordinator immediately if you sight a bear or other large animal.

Both heat stress, due to work in impervious PPE, and cold stress, due to ambient weather conditions, are potential hazards during this project. To control these hazards:

- 1) Workers will be reminded to stay fully hydrated and to immediately get out of the work area and report to the Site Safety Coordinator if they experience symptoms of heat stress or frost bite.
- 2) Blankets will be available for workers to cover themselves after going through decon.

Specific Area Hazards

Old Terminal Building:

Activity- puncturing six (6) cylinders of Helium. There are two hazards associated with this activity- escaping helium if allowed to accumulate in a confined area could displace the available oxygen and asphyxiate workers present; and the pressure inside the cylinders, if allowed to escape instantaneously, could cause the cylinder to rocket away at high speed, causing injury to nearby workers. Additionally, the building appears to be structurally unsound, and work inside the structure could place workers at risk. These hazards will be controlled by:

- 1) Informing the personnel conducting work on the cylinders of the risks associated with high pressure or asphyxiation from leaking helium.
- 2) Securing the cylinders in such a way that when punctured, if under pressure, the cylinders either will not leave the area, or if they do "take off" they do so in a direction away from buildings, personnel, or aircraft.
- 3) Ensuring that no personnel are closer than 50 feet to any cylinder being punctured. This requires a means to operate the hydraulic press used to puncture the cylinders remotely.
- 4) Perform the cylinder puncture operation outside the terminal building.

Transformer Shed Behind Terminal Building:

The small shed in which the three transformers sit will be dismantled to enable the removal of the transformers to proceed. The oil in the transformers contains high concentrations of PCBs. The main hazard from PCB is skin contact (it may form a type of skin rash called "chloracne"). The transformers themselves are heavy and pose a risk of crushing injury during the lifting phase of their removal. The terrain behind the shed has a gentle slope that might lead to the lifting devices not holding the transformers properly. These hazards will be controlled by:

- 1) Using care during the dismantling of the shed not to incur physical injury; wear safety glasses and protective (example- leather) work gloves.
- 2) Wearing splash suits and face shields during the pumping of the oil if close enough to be splashed. Use gloves made of Viton (any manufacturer) or "Silver Shield" (made by North); high concentrations of PCB will permeate most other glove material.
- 3) Care in the placement of any lifting tripod or lift truck, so that the device is not placed at an angle over the transformers.
- 4) Ensuring that workers do not stand directly under any transformer where they could be crushed should the transformer fall.

Barracks Area:

The generator building has a room with a fuel storage tank. There was a pronounced odor of hydrogen sulfide (H_2S) coming from this area. H_2S can cause death if breathed in high concentrations. There are no drums or transformers or other items of interest in this room. The transformer room was inaccessible during the inspection due to the roof having collapsed from the weight of snow on it. The switch boxes and transformers are heavy and contain PCBs. These hazards will be controlled by:

- 1) Informing the workers of the hazards of breathing H_2S , and that they should not enter the area with the fuel tank.
- 2) Using an instrument capable of detecting and quantifying the presence of H_2S gas when working in this area.
- 3) Using the jib crane to remove the roof of the transformer room to enable a safe approach to the transformers.
- 4) Using the same precautions as above during the oil transfer and moving of the transformers or switches.
- 5) Transformers may be rolled out of the building to enable an easier approach for lifting by jib crane; use safety boots to avoid crushing injuries, special drum-moving dolly, etc.

Mess Hall Area:

At the time of the inspection, the interior of this building was covered with ice, making walking treacherous. There were many small containers (5 gallon or smaller) strewn about this building. Many of these were imbedded in the ice. There are three (3) cold storage rooms which meet the definition of "confined space" under the new 29 CFR 1910.146 standard. Moving the containers, should they break, could expose workers to vapors coming from the spill. To control these hazards:

- 1) Either wait until the ice has melted to conduct operations in this area, or place some non-slip material such as plywood sheets on the floor.
- 2) Conduct entry into the three cold storage lockers using confined space entry protocols (atmospheric testing, safety watch, have entrants wear lifelines, be prepared for emergency rescue with SCBAs available, entry permit, etc.).
- 3) If a spill occurs, back out and conduct clean-up using SCBAs until air monitoring demonstrates that an unsafe atmospheric concentration does not exist.
- 4) Full containers may be very heavy; use proper lifting techniques.
- 5) Containers are rusty and may have sharp edges. Wear leather gloves over chemical protective gloves. Wear splash suits, safety boots, full-face respirators with combination HEPA / organic vapor filters, hard hats.

Drums:

55-gallon drums may weigh several hundred pounds. If the drums fall apart during removal, the contents will spill and may expose workers to toxic vapors. To control these hazards:

- 1) Use mechanical drum moving/lifting devices.
- 2) Situate the area to lift the drums onto trailers on level ground. Ensure workers do not stand beneath drums being lifted where they could be struck by a falling drum.
- 3) Wear safety boots, work gloves over chemical resistant gloves, full-face respirators with HEPA/ organic vapor filters, splash suits.
- 4) If a spill occurs, back off and clean up the spill using SCBAs until air monitoring shows that an unsafe atmospheric concentration does not exist.

Disposal

Hazardous and Toxic Wastes will be transported off-site to an EPA approved TSD facility for disposal.

Hazardous Chemicals Identified On-Site

The C of E has identified the following materials as part of this clean-up operation. Not all of the chemicals on this list were visually located during the inspection, probably because they were hidden by the ice and snow present at the time. It is also possible that materials not on this list may be encountered.

Petroleum, oil, and lubricants (POL)

PCB -oils and contaminated soil

1,1,1-Trichloroethane

Paint, paint solvents

Calcium hypochlorite

Bromochloromethane

Oxalic acid

Sodium hydroxide

Isopropyl alcohol

Helium compressed gas cylinders

Petroleum, oil, and lubricants (POL)- these materials can be absorbed through intact skin as well inhaled. Vapors affect the central nervous system, causing dizziness, nausea, headache. Benzene, a component of gasoline and some jet fuels (JP-4) may cause leukemia, a cancer of the blood. Using respirators with organic vapor cartridges and preventing skin contact by using chemical resistant gloves made of Nitrile will be the easiest control methods.

PCB -oils and contaminated soil- PCBs cause a skin disease called chloracne, a severe form of acne. They pose no inhalation hazard unless heated. Using Viton gloves or Silver Shield gloves when working in close proximity to the liquid oils will control exposure. Try to avoid splashing the oil on you. Normal rubber, such as natural or butyl rubber, will rapidly absorb PCBs; however, once it gets into the soil, PCB binds closely to the dirt. Rubber boots contaminated with PCBs cannot be decontaminated and must be discarded at the end of the project, so try to avoid coming into direct contact with contaminated soil.

1,1,1-Trichloroethane- a common cleaning solvent found in paint strippers, electrical cleaners, etc. Also known as methyl chloroform, this chemical has an 8-hour time-weighted average allowable concentration of 350 parts per million (ppm); except in an uncontrolled spill, overexposure to this chemical is unlikely during this project. If not cleaning up a spill, any glove will work. If contact with the liquid is likely, use Viton or Silver Shield gloves.

Paint, paint solvents- may contain pigments such as lead, as well as vehicle solvents, such as methyl ethyl ketone (MEK) and toluene. MEK vapor has an 8-hour TWA limit of 200 ppm; toluene has a 50 ppm 8-hour TWA limit. Except in a spill, overexposure during this project is unlikely. In a spill situation, for less than 1-hour of exposure, use any glove material. For 1-4 hours of contact with the liquids, use Silver Shield. These paint pigments can be absorbed through ingestion, so good decon is vital to prevent increasing your body burden of these contaminants. Inhalation and skin absorption are modes of entry for the solvents.

Calcium hypochlorite- used to disinfect water or swimming pools. It liberates toxic chlorine gas which is also very corrosive to the skin and eyes. Use eye protection when handling. Over exposure is unlikely unless the container breaks. Use SCBAs and chemical gloves made of neoprene rubber or Silver Shield during spill clean-up.

Bromochloromethane- also known as Halon 1011. Liquid spills evaporate about 5 times faster than water. Liquid may irritate eyes and skin. Inhalation and ingestion are modes of entry of this chemical. The 8-hour TWA exposure limit is 200 ppm. Except in a spill, overexposure is unlikely. When cleaning up a spill, use SCBA and Viton or Silver Shield gloves. Do not heat this material, as it decomposes into very toxic gasses such as phosgene.

Oxalic acid- this white powder was used to remove rust in radiators. It has an 8-hour TWA exposure limit of 1 milligram per cubic meter of air (1 mg/m³). Do not mix with the hypochlorite, as dangerous byproducts may form. It is corrosive to skin and eyes. Wear neoprene or PVC gloves and face shields and chemical goggles when handling this material.

Sodium hydroxide- this very strong base must be kept out of the eyes. Use goggles and face shield when working around this material. It causes severe skin corrosion; wear gloves made of neoprene rubber or PVC.

Isopropyl alcohol- also known as "rubbing alcohol", this material, in the quantity found at the site, should not pose undue risk to workers. If it spills indoors or other confined area, use SCBA to clean it up. Gloves may be made of neoprene or nitrile rubber or PVC. The 8-hour TWA exposure limit is 400 ppm.

Helium compressed gas cylinders- helium is a simple asphyxiant, which means that it may displace the oxygen in the air and kill by lack of oxygen. It is not toxic through skin contact. It is its high pressure hazard that poses the greatest risk on this site, since the cylinders will be handled outside.

In all cases, workers should wear splash suits made of any convenient material (Saranex coated Tyvek is a good choice), hardhat, safety boots, eye protection, hearing protection if around operating machinery, and full-face respirators with filter appropriate to asbestos protection and also to any vapors that may be present. The recommended PPE can be modified by the Site Safety Coordinator based on actual hazard present.

Air Monitoring

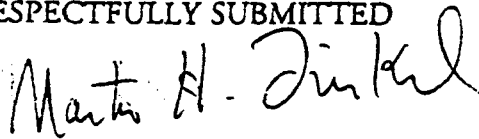
The Site Safety and Health Plan by the C of E recommends using a miniram for particulate monitoring. This instrument must be calibrated to the specific dusts present at the site in order to give meaningful data. A better way to monitor particulate exposure is to use a gravimetric analysis; a preweighed filter is used to collect a breathing zone sample during the work shift. At the end of the shift it is reweighed, and the exposure can be calculated using the weight of particulate per cubic meter of air drawn through the filter. If the total particulate exposure is less than 1 mg/m^3 , then the exposure to the soil contaminant is below allowable levels, and respiratory protection may not be needed.

Breathing zone monitoring for asbestos dust should be conducted since ACM is present throughout the site. If possible, the means to analyze the filters should be available on-site, since sending the samples to a lab in Anchorage will yield results after the project is completed.

A Photoionization detector instrument (PID) such as a TIP or HNu will prove useful for determining if any hydrocarbon vapors are coming from a drum of solvent, or from contaminated soil after a spill.

A Combustible Gas Indicator (CGI), Oxygen meter, H_2S detector combination instrument will be useful on this project. An Industrial Scientific HMX-271 is an example of such an instrument.

RESPECTFULLY SUBMITTED



Martin H. Finkel, CIH #3384
Environmental Safety and Health of Alaska



Environmental Safety & Health of Alaska

Edward E. Erickson
NW EnviroService, Inc.
1813 E. 1st Ave.
Anchorage, AK 99501

June 10, 1994

Dear Mr. Erickson:

I have reviewed the Site Health and Safety Plan (Plan) for HTW Removal at NE Cape, Saint Lawrence Island, AK, and in general find it to be well developed. This plan, coupled with conscientious safety supervision, should enhance the safety and health of workers on this project. I have some observations and suggestions that might improve the Plan:

- 1) On p. 42, you have presented a decontamination scheme that excludes using a field shower. As you pointed out in the Plan, exposure potential to the materials being removed as part of this project is low. However, the site is littered with asbestos containing debris that will potentially contaminate all workers on the site. Until air monitoring data indicates that the action level to airborne asbestos dust is not exceeded, a shower as part of decon is highly recommended.
- 2) Also as part of decon, I recommend that you have available for workers removing PPE some blankets to prevent chills. The ambient weather conditions on the site, even during the months of June and July, are cool enough that hypothermia must be guarded against.
- 3) On page 59 the Plan states that there are no confined spaces on this site. Believe it or not, the three cold storage rooms in the mess hall meet the definition of "confined spaces" as currently interpreted by Federal OSHA (large enough to enter bodily; not intended for continuous human occupancy; and the debris and ice in front of them make for restricted means of entry or exit).

Therefore work inside these rooms requires implementation of full confined space

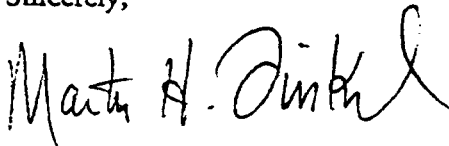
protocols (testing of the atmosphere, preparing for emergency rescue, use of lifelines, an attendant, etc.). If the ice and debris in front of the entry points is removed, these rooms would no longer meet the definition of a confined space, and the requirements in the confined space regulation would not apply. I suggest attempting to clean up the area in front of these rooms in lieu of using the confined space entry procedure required by 29 CFR 1910.146.

4) Appendix A- the section summarizing my experience has some missing information. I have 15 years' experience with hazardous and toxic wastes. My certification in industrial hygiene was granted in 1986. I have trained over 1,000 students in HAZWOPER (40-hour); my training course is recognized by Federal EPA (the only other training providers in Alaska with final EPA approval are UAA and UAF).

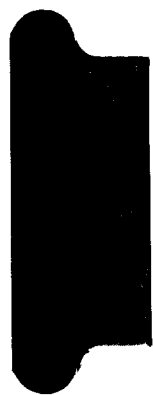
Please remove the sentence on first aid and CPR. Although once certified in these disciplines, I do not have current certification in CPR or first aid.

If you have any additional questions do not hesitate to contact me. I look forward to working with NW EnviroServices, Inc. on this project.

Sincerely,

A handwritten signature in cursive script that reads "Martin H. Finkel". The signature is written in black ink and is positioned above the typed name.

Martin H. Finkel, CIH



APPENDIX A

Sampling Procedures

Sampling on this project was conducted with methods generally identified in EPA document SW-846. The purpose of the sampling was for three reasons. One was for the purpose of providing samples for off-site testing laboratories. The second was for field screening for segregation prior to packaging for transport and the third was for a field determination of the cleanliness of potentially PCB contaminated soil at one location.

Sampling for the purpose of sending samples off-site was done using clean glass thieves or clean spoons. Some of these samples were for providing project direction and some were for disposal method confirmation.

Sampling for field screening was done using a variety of methods including glass thieves and clean spoons.

The spot test for PCB in soil was performed using an ENSYS, Inc Immunoassay soil test system rather than an Elisa system as specified in the project specifications. This field decision was made and approved in the 7/7/94 QC/QA report. The 7/7/94 report also includes locations from which soil samples were consolidated.

A copy of the Users Guide for the ENSYS system follows.

A chain of custody form was used to accompany all samples shipped off-site for testing. Copies of custody forms follow in Appendix B of this final report.

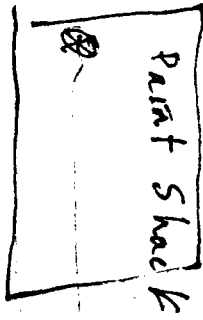
Figure A-1 is a field sketch showing the location of samples taken from the General Supply Warehouse and the Paint and Dope Storage Building.

Table A-1 lists the size of the samples needed to characterize respective listed wastestreams.

Poor
writing)

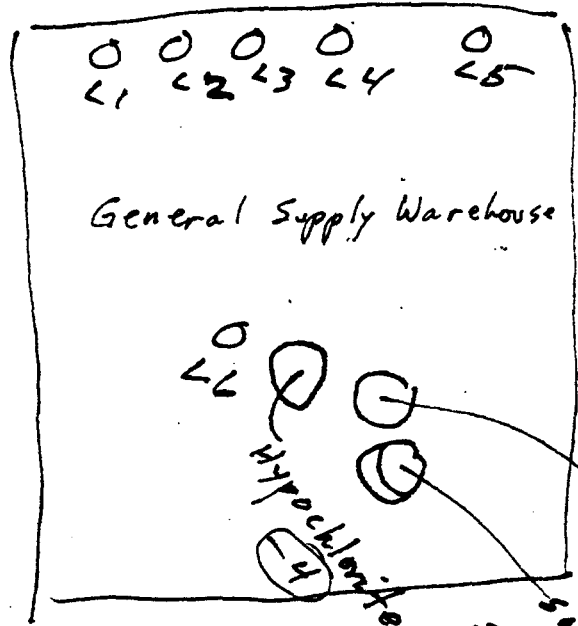
Table A.1

Sample Locations



insulating oil
 (7)

Need a better map



Hypochlorite
 (8)

Acid Sand
 (1)

Sodium Silicate
 Sodium metasilicate
 Sodium over
 (2)

Sample Stations
 7/5/94
 F.E.W.

Note: precede all sample numbers with
 940705- e.g. 940705-L2 and 940705-a

(5)
 Sodium
 (9)

Table A-2

NORTHEAST CAPE PROFILES

WPQ	Wastestream	Sample Requirements
AK4863	POL's (FP>200F) (Low P.I.D.)	500 ml per drum*
AK4864	POL's (FP 140-200F) (P.I.D. 200-300)	500 ml per drum*
AK4865	POL's (FP100-139F) (P.I.D. 300-400)	500 ml per drum*
AK4866	POL's (FP70-99F) (High P.I.D.)	500 ml per drum*
AK4867	Calcium Hypochlorite	Completed
AK4868	Isopropyl Alcohol	500 ml
AK4869	Insulating Oil (<50 PPM)	20 ml per drum**
AK4870	PCB Oil (50-500 PPM)	20 ml per drum**
AK4871	PCB Oil (>500 PPM)	20 ml per drum**
AK4872	Transformers & Switches (<500 PPM) Carcasses	None
AK4873	Transformers & Switches (>500 PPM) Carcasses	None

* Only one sample per each WPQ needed for Seattle. Sample from each drum needed for field QC testing.

** PCB control Sheet needed to show sources for oil in each drum (complete with switch and transformer I.D. numbers). Small oil sample (20 ml) needed for combined Anchorage and Seattle requirements from each drum. Sample will be split in Anchorage.

-- Rev. 5 9/1/93

PCB RISC[®] SOIL TEST SYSTEM

RAPID IMMUNOASSAY SCREEN

User's Guide

IMPORTANT NOTICE

This method correctly identifies 95% of samples that are PCB-free and those containing 1 ppm or greater of PCBs. A sample that develops less color than the standard is interpreted as positive. It contains PCBs. A sample that develops more color than the standard is interpreted as negative. It contains less than 1 ppm PCBs.

This test system should be used only under the supervision of a technically qualified individual who is capable of understanding any potential health and environmental risks of this product as identified in the product literature. The components must only be used for the analysis of soil samples for the presence of polychlorinated biphenyls. After use, the kits must be disposed of in accordance with applicable federal and local regulations.

WORKSTATION SET-UP

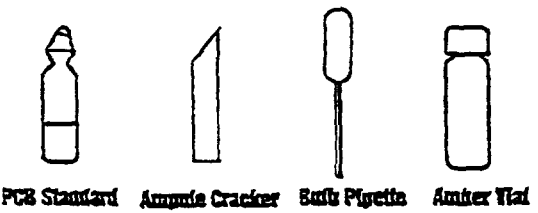
READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

READ BEFORE PROCEEDING

- Follow diagram below to setup workstation.
- Items that you will need that are not provided in the test kit include: a permanent marking pen, laboratory tissue (or paper towels), a liquid waste container, disposable gloves.
- Do not expose reagents to direct sunlight.
- Do not attempt to run more than 12 tubes, two of which must be Standard tubes.
- Operate test at temperatures greater than 4°C / 40°F and less than 32°C / 90°F.
- See table on page 9 for sensitivity to various arachnids.

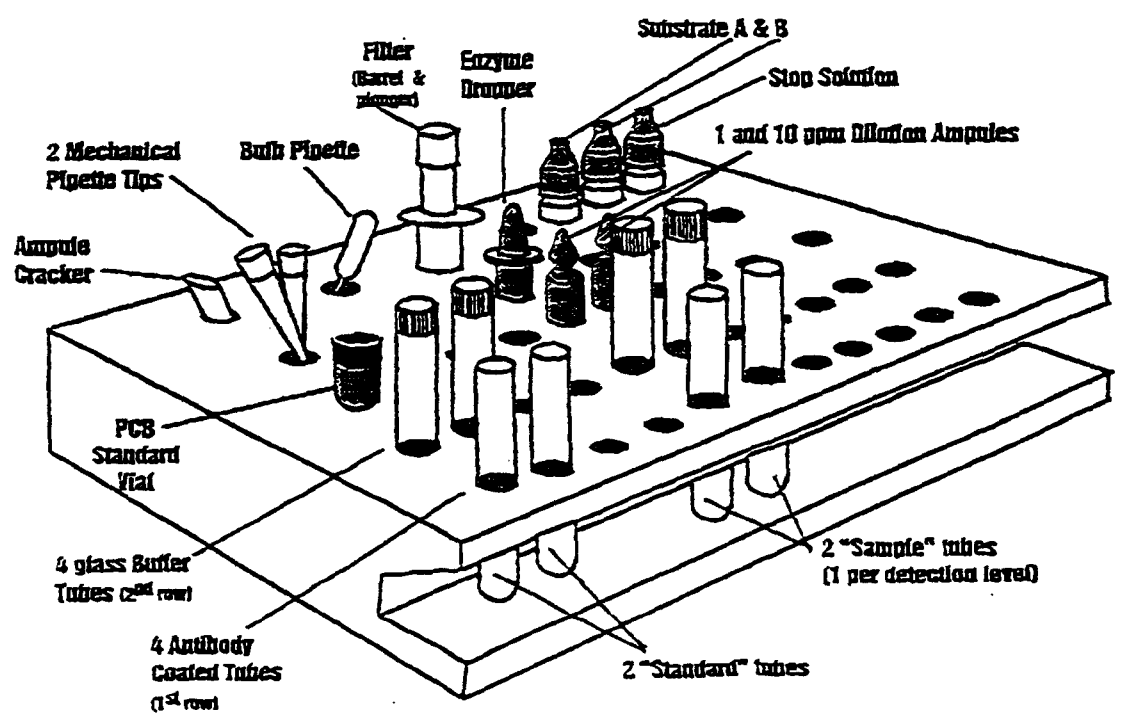
TEST PREPARATION

- Label amber vial "PCB Standard", and the current date, Standard is usable for up to 2 weeks from this date. Open PCB Standard ampule by slipping ampule cracker over top, and then breaking tip at scored neck. Transfer to empty amber vial with bulb pipette. Always cap tightly when finished using Standard.



WORKSTATION SET-UP (Workstation shows components for 1 sample tested at 2 levels)

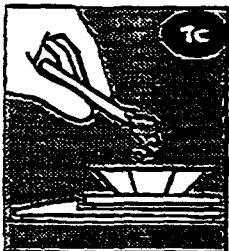
- | | | | |
|--|---|---|--|
| <input type="checkbox"/> Mechanical pipette tips | <input type="checkbox"/> Substrate A | <input type="checkbox"/> Substrate B | <input type="checkbox"/> Stop solution |
| <input type="checkbox"/> Enzyme dropper | <input type="checkbox"/> Filtration barrel & plunger | <input type="checkbox"/> Bulb pipette | <input type="checkbox"/> Ampule cracker |
| <input type="checkbox"/> PCB standard vial | <input type="checkbox"/> 1 and 10 ppm dilution ampoules | <input type="checkbox"/> 4 glass buffer tubes | <input type="checkbox"/> 4 antibody coated tubes |



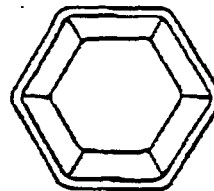
PHASE 1 EXTRACTION & PREPARATION OF THE SAMPLE

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

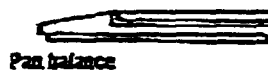
WEIGH SAMPLE



- 1a Place unused weigh boat on pan balance.
- 1b Press ON/MEMORY button on pan balance. Balance will beep and display 0.0.
- 1c Weigh out 10 \pm 0.1 grams of soil.
- 1d If balance turns off prior to completing weighing, use empty weigh boat to retare, then continue.



Weigh Boat



Pan balance



Wooden spatula

EXTRACT PCBs

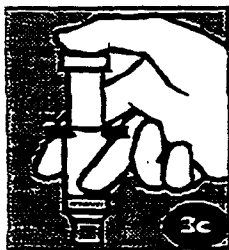


- 2a Uncap extraction jar and place on a flat surface. Without contacting solvent puncture foil seal with ampule cracker or sharp object. Peel the remainder of the seal off extraction jar.
- 2b Using wooden spatula, transfer 10 grams of soil from weigh boat into extraction jar.
- 2c Recap extraction jar tightly and shake vigorously for one minute.
- 2d Allow to settle for one minute. Repeat steps 1a - 2c for each sample to be tested.

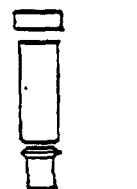


Extraction jar

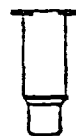
FILTER SAMPLE



- 3a Disassemble filtration plunger from filtration barrel.
- 3b Insert bulb pipette into top (liquid) layer in extraction jar and draw up sample. Transfer at least $\frac{1}{2}$ bulb capacity into filtration barrel. Do not use more than one full bulb.
- 3c Press plunger firmly into barrel until adequate filtered sample is available (place on table and press if necessary). Repeat steps 3a - 3c for each sample to be tested.



Filtration plunger



Filtration barrel



Bulb pipette

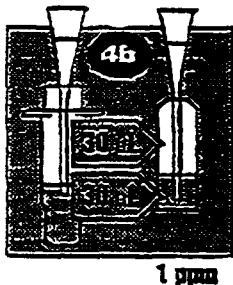
PHASE 2 SAMPLE & STANDARD PREPARATION

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

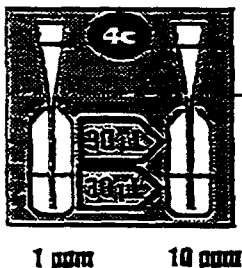
READ BEFORE PROCEEDING

- Tap glass buffer tubes vigorously on hard surface to release buffer trapped in cap.
- Label the glass buffer and plastic antibody coated tubes with a permanent marking pen. Uncap glass buffer tubes.
- When using the mechanical pipette always withdraw and dispense below the liquid level.
- "Shake tubes" means to thoroughly mix the contents with special care not to spill or splash.

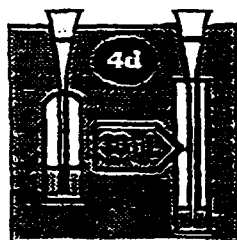
DILUTE SAMPLES AND STANDARDS



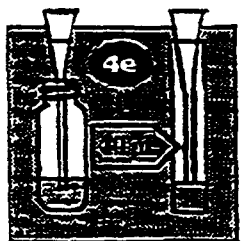
- 4a Open 1 and 10 ppm* dilution ampules by slipping ampule cracker over top, and then breaking top at scored neck.
- 4b Withdraw 30 μ L of filtered sample using mechanical pipette and dispense below the liquid level in "1 ppm" dilution ampule. Repeat to transfer a total of 60 μ L; gently shake ampule from side to side for 5 seconds to mix thoroughly.



- 4c Withdraw 30 μ L from the "1 ppm" dilution ampule using mechanical pipette and dispense below the liquid level in "10 ppm" dilution ampule. Repeat to transfer a total of 60 μ L; gently shake ampule from side to side for 5 seconds to mix thoroughly.

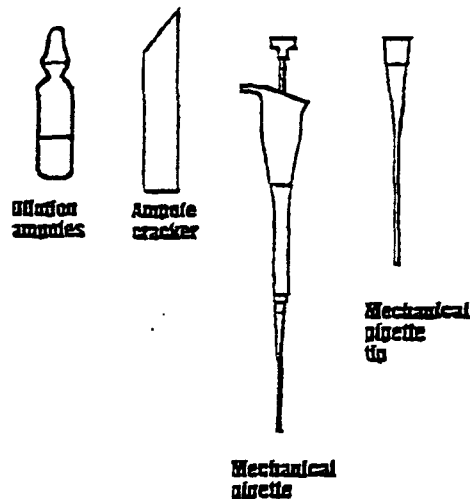


- 4d Transfer 30 μ L from each dilution ampule into a glass buffer tube. Always wipe tip after dispensing into buffer tube.
- 4e Assemble new pipette tip on mechanical pipette and transfer 30 μ L from Standard vial into two glass buffer tubes. Immediately replace cap on PCB Standard vial.



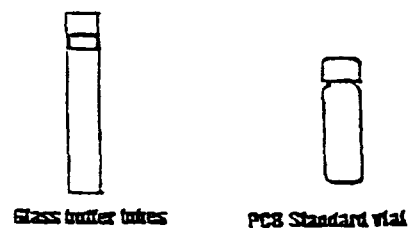
- 4f Shake all glass buffer tubes for 5 seconds.

PCB Standard



* For other test concentrations, follow steps 4b - 4d, transferring from lowest level dilution ampules to higher level dilution ampules. You may be provided with additional dilution ampules to achieve higher test concentrations.

If you need assistance call technical support 1-800-242-7472



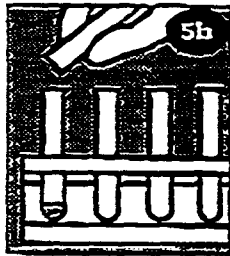
PHASE 3 THE IMMUNOASSAY

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

READ BEFORE PROCEEDING

- This phase of the procedure requires critical timing and care in handling the antibody coated tubes.

INCUBATION 1

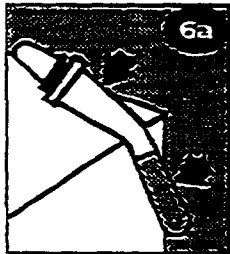


- 5a Set timer for exactly 10 minutes.
- 5b Start timing and immediately pour solution from each glass buffer tube into appropriate antibody coated tube. Tap glass tube on antibody coated tube to remove solution.
- 5c Shake all tubes for 5 seconds.

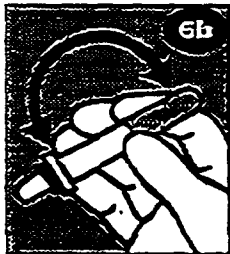


Antibody coated tubes (contained in resealable "zip-seal" sterilized pouch)

PREPARE ENZYME DROPPER



- 6a Crush glass ampule contained within enzyme dropper by pressing tube against hard edge.
- 6b Mix enzyme by turning dropper end-over-end 5 times. Do not shake.
- 6c Remove seal from enzyme dropper.



Repeat steps 6a - 6c to prepare one enzyme dropper for every 5 antibody coated tubes.

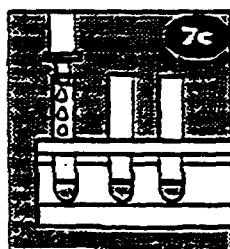


Enzyme dropper

INCUBATION II

- 7a Dispense first drop from enzyme dropper into liquid waste container.

Note: before dispensing drops, tap capped tip on hard surface to avoid dispensing air bubbles.



- 7b After the 10 minute incubation, set timer for 5 minutes.
- 7c Immediately dispense 3 drops of enzyme into each antibody coated tube by squeezing the dropper.
- 7d Shake antibody coated tubes for 5 seconds.

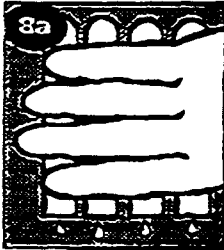
PHASE 3 THE IMMUNOASSAY

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

READ BEFORE PROCEEDING WASH PROCEDURE

- An accurate test requires a vigorous wash accomplished by directing a strong stream into the antibody coated tubes.
- The wash solution is a harmless, dilute solution of detergent.

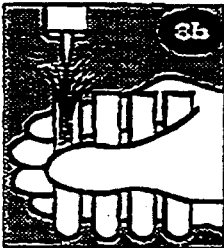
WASH



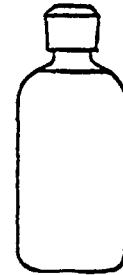
8a After the 5 minute incubation (a total of 15 minutes), empty antibody coated tubes into liquid waste container.

8b Wash antibody coated tubes by vigorously filling and emptying a total of 4 times.

8c Tap antibody coated tubes upside down on paper towels to remove excess liquid. Residual foam in the tubes will not interfere with test results.



Note: When running up to 12 antibody coated tubes, tubes can be washed in two groups - one group immediately following the other group.



Wash bottle

READ BEFORE PROCEEDING

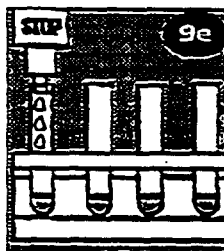
- Keep Substrate dropper bottles vertical and direct each drop to bottom of antibody coated tubes. Addition of more or less than 5 drops may give inaccurate results.
- This phase requires accurate timing.

PHASE 3 THE IMMUNOASSAY

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

COLOR DEVELOPMENT

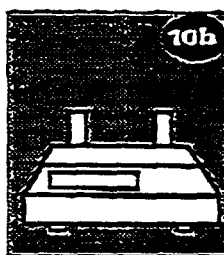
- 9a Add 5 drops of Substrate A (yellow cap) to each antibody coated tube.
- 9b Set timer for exactly 2 ½ minutes.
- 9c Start timer and immediately add 5 drops of Substrate B (green cap) to each antibody coated tube.
- 9d Shake all tubes for 5 seconds. Solution will turn blue in some or all antibody coated tubes.
- 9e Stop reaction at end of 2 ½ minutes by adding 5 drops of Stop Solution (red cap).



Substrate
Bottles (A,
B, & Stop
Solution)

Note: Blue solution will turn yellow when Stop Solution is added.

SELECT STANDARD

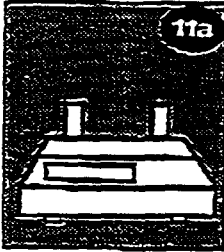


- 10a Wipe outside of all antibody coated tubes.
- 10b Place both Standard tubes in photometer.
- 10c Switch tubes until the photometer reading is negative or zero. Record reading.
If reading is greater than 0.3 in magnitude (+ or -), results are outside QC limits. Retest the sample(s).
- 10d Remove and discard tube in right well. The tube in the left well is the darker standard.

PHASE 3 THE IMMUNOASSAY

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

MEASURE SAMPLE



11a Place 1 ppm tube in right well of photometer and record reading.

If photometer reading is negative or zero, PCBs are present.

If photometer reading is positive, concentration of PCBs is less than 1 ppm.

11b Place 10 ppm tube in right well of photometer and record reading.

If photometer reading is negative or zero, PCBs are present.

If photometer reading is positive, concentration of PCBs is less than 10 ppm.

AROCLOR SENSITIVITY

Aroclor	Lowest Detection Level
1248	1.0 ppm
1254	0.4 ppm
1260	0.4 ppm
1242	2.0 ppm
1232	4.0 ppm
1016	4.0 ppm

QUALITY CONTROL

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

System Description

Each PCB RISC Soil Test System contains enough material to perform four complete tests, each at two detection levels, if desired.

The PCB RISC Soil Test is divided into three phases. The instructions and notes should be reviewed before proceeding with each phase.

Hotline Assistance

If you need assistance or are missing necessary Test System materials, call toll free: 1-800-242-RISC (7472).

Validation and Warranty Information

Product claims are based on validation studies carried out under controlled conditions. Data has been collected in accordance with valid statistical methods and the product has undergone quality control tests of each manufactured lot.

PCB-free soil and soil containing 1 ppm or greater of PCBs were tested with the EnSys PCB RISC analytical method. The method correctly identified 95% of these samples. A sample that has developed less color than the standard is interpreted as positive. It contains PCBs. A sample that has developed more color than the standard is interpreted as negative. It contains less than 1 ppm PCBs.

The company does not guarantee that the results with the PCB RISC Soil Test System will always agree with instrument-based analytical laboratory methods. All analytical methods, both field and laboratory, need to be subject to the appropriate quality control procedures.

EnSys, Inc. warrants that this product conforms to the descriptions contained herein. No other warranties, whether expressed or implied, including warranties of merchantability and of fitness for a particular purpose shall apply to this product.

EnSys, Inc. neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as is expressly set forth herein.

Under no circumstances shall EnSys, Inc. be liable for incidental or consequential damages resulting from the use or handling of this product.

How It Works

Standards, Samples, and color-change reagents are added to test tubes, coated with a chemical specific to PCBs. The concentration of PCBs in an unknown Sample is determined by comparing its color intensity with that of a Standard.

Note: PCB concentration is inversely proportional to color intensity; the lighter the color development of the sample, the higher the concentration of PCBs.

Quality Control

Standard precautions for maintaining quality control:

- Do not use reagents or test tubes from one Test System with reagents or test tubes from another Test System.
- Do not use the Test System after any portion has passed its expiration date.
- Do not attempt the test using more than 12 antibody coated tubes (two of which are Standards) at the same time.
- Do not exceed incubation periods prescribed by the specific steps.
- Always dispense correct number of drops and wash the number of times indicated in this guide.
- Use EPA Method 8080 or Code of Federal Regulations Title 40, Part 136, Appendix A, Method 680 to confirm results.

Storage and Handling Precautions

- Wear protective gloves and eyewear.
- Store kit at room temperature and out of direct sunlight (less than 80°F).
- Keep aluminized pouch (containing unused antibody coated tubes) sealed when not in use.
- If Stop Solution or liquid from the extraction jar comes into contact with eyes, wash thoroughly with cold water and seek immediate medical attention.
- Standard Solution contains PCBs. Test samples may contain PCBs. Handle with care.

MECHANICAL PIPETTE

READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH THE TEST

HOW TO OPERATE THE MECHANICAL PIPETTE

To Set Or Adjust Volume

Remove push-button cap and use it to loosen volume lock screw. Turn lower part of push-button to adjust volume up or down. Meter should read "030". Tighten volume lock screw and replace push-button cap.

To Assemble Pipette Tip

Slide larger mounting end of pipette tip onto end of pipette. Holding tip in place, press push-button until plunger rod enters pipette tip. Ensure no gap exists between piston and plunger rod (see illustration).

To Withdraw Sample

With tip mounted in position on pipette, press push-button to first stop and hold it.

Place tip at bottom of liquid sample and slowly release push-button to withdraw measured sample. Ensure that no bubbles exist in liquid portion of sample. If bubbles exist, dispense sample and re-withdraw sample.

To Dispense Sample

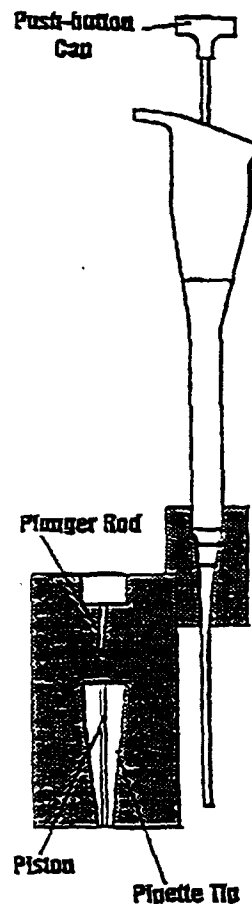
Place tip into dispensing vessel (immersing end of the tip if vessel contains liquid) and slowly press push-button to first stop. (Do not push to second stop or tip will eject).

Remove tip from vessel and release push-button.

To Eject Tip

Press push-button to second stop. Tip is ejected.

For additional information regarding operation and use of pipette, please refer to your pipette manual.

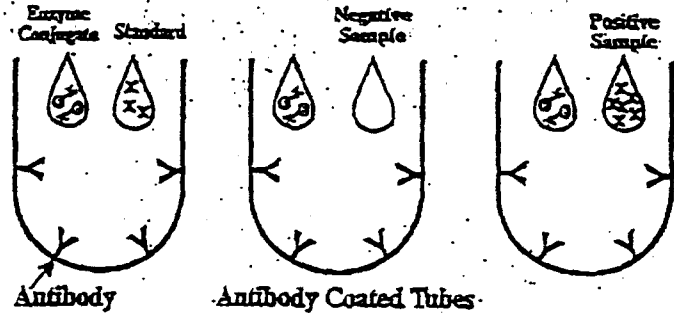




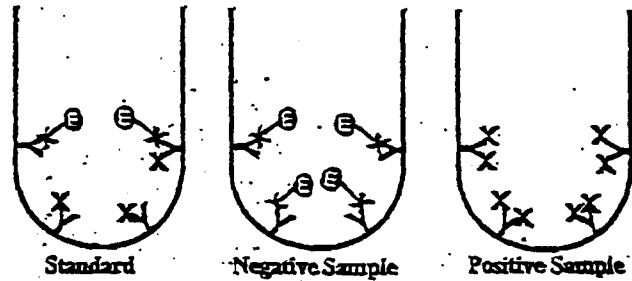
What is Immunoassay Technology?

The immunoassay technique relies on an antibody that is developed to have a high degree of sensitivity to the target compound. This antibody's high specificity is coupled with a sensitive colorimetric reaction that provides visualization of the result. In the environmental industry, immunoassay methods provide timely, cost effective, and accurate information on contamination levels of key pollutants.

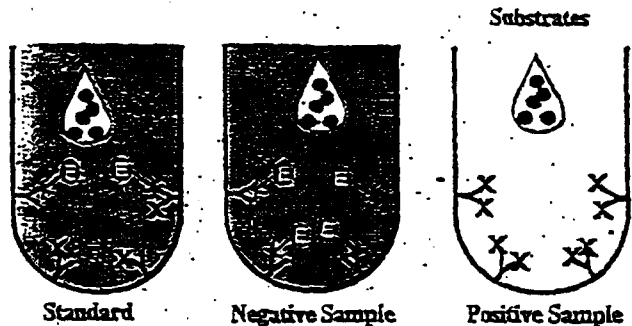
1. The immunoassay analysis starts when enzyme conjugate is added to antibody coated tubes.



2. The target analyte, which may be present in the samples, "competes" with the enzyme conjugate for a limited number of antibody binding sites. After a washing step, the enzyme conjugate or target analyte bound to the antibody in the tube remains.



3. Substrate solution is added to produce a color. The intensity of the color formed is inversely proportional to the concentration of the target analyte in the sample. The Yes/No determination is made by comparing the color developed by an unknown sample to the color formed with the standard.



CUSTOMIZING THE ENSYS PCB RISCSM TEST

The PCB RISC test specifically detects PCB. EnSys has determined the relative sensitivities to individual Aroclors (listed below). In matrices contaminated with a mixture of Aroclors, we have observed that a PCB test configured for Aroclor 1248 closely approximates total Aroclor concentration.

AROCLOR	PCB SOIL	PCB WIPE
1248	1 ppm	10 ug / 100 cm ²
1254	0.4 ppm	4 ug / 100 cm ²
1260	0.4 ppm	4 ug / 100 cm ²
1242	2.0 ppm	20 ug / 100 cm ²
1232	4.0 ppm	40 ug / 100 cm ²
1016	4.0 ppm	40 ug / 100 cm ²

These sensitivities represent the lowest detection levels offered in the PCB RISCSM test. EnSys will customize higher detection levels to your specific needs.

The kit standard is set conservatively in order to claim the following:

< 5% FALSE NEGATIVES with samples > or = detection level

EXAMPLE 1

A customer has a mixture of Aroclors 1260 and 1242 in the soil and would like to set a 5 ppm detection level. The customer has several choices:

(1) A very conservative user would choose the 1242 test giving virtually no false negatives but the possibility of a higher incidence of false positives with soils containing Aroclor 1260 (5 ppm detection level of 1242 = 1 ppm detection level of 1260).

(2) A customer concerned with false positives - perhaps viewing 5 ppm as a conservative detection level - would choose 1260. Also, if the soils are known to contain much higher concentrations of 1260 than 1242, it would be wise to choose 1260 since false negatives are then not an issue.

EXAMPLE 2

A site contains a mixture of Aroclors 1248, 1254 and 1260 and the relative concentrations are unknown. The clean-up level is 1.0 ppm.

(1) The conservative configuration would be Aroclor 1248 at 1.0 ppm. At this level < 5% false negatives can easily be maintained. Positives can occur down to 0.4 ppm for Aroclor 1248 and 0.15 ppm for Aroclors 1254 and 1260.

(2) Aroclor 1254/1260 would be a wise choice (a) if the customer is concerned that there will be a large number of samples between .15 and 1.0 ppm which he would be responsible for remediating given a positive result (b) if Aroclor 1248 is typically found at the site in high concentrations (exceeding 2.5 ppm).

B

BT

NWES Certificate of Treatment (Commercial)
Generators [USA251,USA251] TSD Dates [01/01/94,12/31/94]

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfst	Facility	TSD Codes
94.67749	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorite, hydrated "chlorine"	AK4867	D001 WT02	03/09/95	PhysInvnt	Northwest EnviroService,	S01C T38C
94.67750	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorite, hydrated "chlorine"	AK4867	D001 WT02	03/09/95	PhysInvnt	Northwest EnviroService,	S01C T38C
94.67751	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorite, hydrated "chlorine"	AK4867	D001 WT02	12/12/94	27019-94	CyanoKEM	S01C T38C
94.70187	USA251 USArmy USACE Northea	10/17/94	A1327-94	1A	Waste metal powders, flammable, n.o.s. (zinc, iron oxide)	AK4911	D001 WT02	10/31/94	66125-94	Waste Technologies Indust	S01C T38C
94.78716	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78717	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78718	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78719	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78720	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78721	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78722	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78723	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78724	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.78725	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78726	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78727	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78728	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78729	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78730	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78731	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78734	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 W102	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C T21C
94.78735	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 W102	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C T21C
94.78736	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 W102	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C T21C
94.78737	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 W102	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C T21C
94.78738	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 W102	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C T21C
94.78739	USA251 USArmy USACE Northea	11/25/94	A1329-94	1B	Waste flammable liquids, n.o.s. (acetone, toluene)	G00908	D001 D004 D005 D006 D007 D008 D009 D010 D011 D018D	01/05/95	55529-94	Systech Environmental Cor	S01C S02T T50T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfst	Facility	TSD Codes
							023 D024 D025 D026 D035 F 003 F004 F005 W02 WC02				
94.78740	USA251 USArmy USACE Northea	11/25/94	A1329-94	2A	Waste poisonous solids, c orrosive, n.o.s. (oxalica cid)	AK4907	WT01 D002	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C 121F
94.78741	USA251 USArmy USACE Northea	11/25/94	A1329-94	2B	Waste sodium hydroxide, s olid	AK4908	WT02 D002	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C 121F
94.78742	USA251 USArmy USACE Northea	11/25/94	A1329-94	2B	Waste sodium hydroxide, s olid	AK4908	WT02 D002	01/10/95 01/06/95	75052-95 75069-95	Envirosafe Services of Id Envirosafe Services of Id	S01C 121F
94.78743	USA251 USArmy USACE Northea	11/25/94	A1329-94	2C	Waste isopropanol alcohol	AK4868	D001 WT02	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78744	USA251 USArmy USACE Northea	11/25/94	A1329-94	2E	Waste aluminum chloride, solution	AK4909	D002 WT02	01/11/95	34288-95	Envirosafe Services of Id	S01C 131F
94.78745	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78746	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78747	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78748	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78749	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78750	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78751	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.78752	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78753	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	03/09/95 03/09/95	PhysInvnt PhysInvnt	Northwest EnviroService, Northwest EnviroService,	S01C S02T 150T
94.78754	USA251 USArmy USACE Northea	11/25/94	A1328-94	1C	Caustic alkali liquids, n.o.s. (sodiumsesquicarbonate)	AK4915		11/29/94	34329-94	Envirosafe Services of Id	S01C 121f
94.78755	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78756	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78757	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78758	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78759	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78760	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s. (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78761	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s. (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78762	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s. (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78763	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s. (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T
94.78764	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s. (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02T 150T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfat	Facility	TSD Codes
94.78765	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78766	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78767	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78768	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78769	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78770	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78778	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 W101	01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78779	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 W101	01/05/95	55529-94	Systech Environmental Cor	S01C S02I T50I
94.78988	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21I
94.78989	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21I
94.78990	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21I
94.78991	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21I
94.78992	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		12/04/94	34337-94	Envirosafe Services of Id	S01C T21I

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfst	Facility	TSD Codes
94.78993	USA251 USArmy USACE Northea	11/29/94	14509-94		1B Non-hazardous waste, soli d	AK4912		01/06/95	75046-94	Envirosafe Services of Id	S01C T38C
94.78994	USA251 USArmy USACE Northea	11/29/94	14509-94		1B Non-hazardous waste, soli d	AK4912		01/06/95	75046-94	Envirosafe Services of Id	S01C T38C

2709

CyanoKEM Inc.
12381 Schaefer Highway
Detroit, MI 48227
(313) 933-1850

CERTIFICATE OF DISPOSAL

To: Northwest EnviroService, Inc.
P.O. Box 24443
Seattle, WA 98124

Attn: Symantha Delacruz

This letter represents certification that the waste shipment referenced below was received and has been treated and disposed of by CyanoKEM, Inc. according to all applicable rules and regulations.

Date of Last Production: 01/17/95

Manifest Number: MI3173402

Generator: Northwest EnviroService, Inc.

Date of Receipt: 12/19/94


Authorized Signature

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

1973, as amended and Act 136, P.A. 1969.
 Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved OMB No. 2050-0039 Expires 9-30-

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. WA 00038367147270		Manifest Document No. 9 of 1	Page 1 of 1		Information in the shaded areas is not required by Federal law					
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/ 1500 Airport Way S., Seattle, WA 98124					A. State Manifest Document Number MI 3173402							
4. Generator's Phone (206) 622-1090					B. State Generator's ID							
5. Transporter 1 Company Name Dart Trucking Company			6. US EPA ID Number 041D101019181615181215		C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (800) 377-3278							
9. Designated Facility Name and Site Address CyanoREM 12381 - Schaefer Highway Detroit, MI 48227			10. US EPA ID Number MI 10918101119121		E. State Transporter's ID							
					F. Transporter's Phone							
					G. State Facility's ID							
					H. Facility's Phone (313) 933-1850							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)					12. Containers No. Type		13. Total Quantity		14. Unit M/Vol		15. Waste No. N/H	
a. X Waste calcium hypochlorite mixture, dry, with more than 10% but not more than 39% available chlorine S.L. UN1748, PGII					1		4		P		D002 H	
b. X Waste calcium hypochlorite mixtures, dry, with more than 30% 39% available chlorine S.L. UN1748, PGII					1		13		P		D002 H	
c.												
d.												
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above				a/ /			
a) Profile 21688 - [421699] Calcium hypochlorite (less than 39%) [D002 WA State only] decontaminating agent STB (Additional WA State code W101)					a) M				b/ /			
b) Profile 21852 - Calcium hypochlorite (greater than 39%) [D002 WA State only] decontaminating agent STB (Additional WA State code W101)					b) M				c/ /			
									d/ /			
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL TO NORTHWEST ENVROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION												
16. GENERATOR'S CERTIFICATION I certify that the hazardous waste materials listed on this manifest are accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name					Signature					Date Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature					Date Month Day Year		
Printed/Typed Name					Signature					Date Month Day Year		
18. Transporter 2 Acknowledgement or Receipt of Materials					Signature					Date Month Day Year		
Printed/Typed Name					Signature					Date Month Day Year		
19. Discrepancy Indication Space												
35590												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.												
Printed/Typed Name					Signature					Date Month Day Year		
Name S. Brown for CyanoREM					Signature					Date		

CAN AT 1 800 292 4706 OR OUT OF STATE AT 617 373 7880 AND THE NATIONAL RESPONSE CENTER AT 1 800 424 9802 24 HOURS PER DAY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM AT 1 800 424 9802 24 HOURS PER DAY

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR: COMPANY: Northwest EnviroService, Inc.
STREET ADDRESS: P.O. Box 24443
CITY: Seattle
STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 | A

QUANTITY: 10,233 pounds

WASTE PROFILE NUMBER: N000002

DATE OF INCINERATION: January 30, 1995

Cindy Nonemaker 2-2-95
W.T.I. REPRESENTATIVE

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR:

COMPANY: Northwest EnviroService, Inc.

STREET ADDRESS: P.O. Box 24443

CITY: Seattle

STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 2A

QUANTITY: 556 pounds

WASTE PROFILE NUMBER: N000006

DATE OF INCINERATION: January 30, 1995

Linda Donomaker 2-2-95
W.T.I. REPRESENTATIVE

VonRoll
WTI

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR:

COMPANY: Northwest EnviroService, Inc.

STREET ADDRESS: P.O. Box 24443

CITY: Seattle

STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 2c, 3h

QUANTITY: 16,825 pounds

WASTE PROFILE NUMBER: N000004

DATE OF INCINERATION: February 10, 1995

Circe Romanek
W.T.I. REPRESENTATIVE

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR: COMPANY: Northwest EnviroService, Inc.
STREET ADDRESS: P.O. Box 24443
CITY: Seattle
STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 *ZH*

QUANTITY: 6,980 pounds

WASTE PROFILE NUMBER: N000005

DATE OF INCINERATION: January 30, 1995

Cindy Noramaki 2-2-95
W.T.I. REPRESENTATIVE

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR: COMPANY: Northwest EnviroService, Inc.

STREET ADDRESS: P.O. Box 24443

CITY: Seattle

STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 *3B*

QUANTITY: 583 pounds

WASTE PROFILE NUMBER: NWSW020

DATE OF INCINERATION: February 06, 1995

Cindy Roxmark
W.T.I. REPRESENTATIVE

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR: COMPANY: Northwest EnviroService, Inc.
STREET ADDRESS: P.O. Box 24443
CITY: Seattle
STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 *ZC*

QUANTITY: 3,374 pounds

WASTE PROFILE NUMBER: N000001

DATE OF INCINERATION: January 30, 1995

Cindy Ronamaker 2-2-95
W.T.I. REPRESENTATIVE



CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR: COMPANY: Northwest EnviroService, Inc.
 STREET ADDRESS: P.O. Box 24443
 CITY: Seattle
 STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994
 MANIFEST DOCUMENT NUMBER: 66125
 QUANTITY: 957 pounds
 WASTE PROFILE NUMBER: NWSW013 3F
 DATE OF INCINERATION: February 13 1995

Cindy Ronanaker
 W.T.I. REPRESENTATIVE

CONFIDENTIAL

CERTIFICATE OF TREATMENT AND DESTRUCTION

Waste Technologies Industries certifies and assures to our Customers that the transaction described below, including treatment, storage, and destruction has been handled in compliance with all applicable federal, state, and local regulations and laws.

TRANSACTION

GENERATOR:

COMPANY: Northwest EnviroService, Inc.

STREET ADDRESS: P.O. Box 24443

CITY: Seattle

STATE, ZIP: WA, 98124

DATE RECEIVED: November 18, 1994

MANIFEST DOCUMENT NUMBER: 66125 *3G*

QUANTITY: 3,314 pounds

WASTE PROFILE NUMBER: N000013

DATE OF INCINERATION: January 30, 1995

Liddy Nonemaker 2-2-95
W.T.I. REPRESENTATIVE

CONTAINER # BNZ 234899

9/30/96

Use print or type (Form designed for use on 11x17 inch typewriter)

Form Approved. OMB No. 2050-0039. Expires 6-30-97

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No WAD058367152	Manifest Document No 66125	2. Page 1 of 4	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number				
4. Generator's Phone (206)622-1090				B. State Generator's ID				
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WAD058367152		C. State Transporter's ID				
7. Transporter 2 Company Name Burlington Northern Railroad		8. US EPA ID Number MND048341788		D. Transporter's Phone (206)622-1090				
9. Designated Facility Name and Site Address Waste Technologies Industries 1250 P.O. Box 1026 East Liverpool, OH 43920		10. US EPA ID Number OHD980613541		E. State Transporter's ID				
				F. Transporter's Phone (206)467-3471				
				G. State Facility's ID				
				H. Facility's Phone (216) 385-7337				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total Quantity	14. Unit	1. Waste No.	
				No	Type	Wt/Vol		
	a.	Waste flammable solid, n.o.s. (benzene, xylene, toluene) 4.1 UN1325 (D001, EPA Toxicity) [32]		40	DM	9,910	P	D001 D004 D005 D006 D007 D008 D009 D010 D011
	b.							D018 D019 D021 D023 D026 D027 D028 D034 D035
	c.							D036 D037 D038 D039 D040 D043 F001 F002 F003
d.							F004 F005 W101 WP01 WC02	
J. Additional Descriptions for Materials Listed Above a) WPG N00002C - - [WTI #N00002] SOLVENT CONTAMINATED PAINT DEBRIS (BRUSHES, ROLLERS, PLASTIC), ABS -				K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION. 11a) STCC # 48-081-10 NW 94111601 P&H135 OH T02566								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway or rail according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name WILLIAM K DENIKE		Signature <i>William K Denike</i>		Month Day Year 10/31/94				
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name FRANK FRANKSON		Signature <i>Frank Frankson</i>		Month Day Year 10/31/94				
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name LARRY CORWISN		Signature <i>Larry Corwisn</i>		Month Day Year 11/12/94				
19. Discrepancy Indication Space								
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name CURTIS COX								
Signature <i>Curtis Cox</i>		Month Day Year 11/18/94						

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 12/31/96

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. WAD058367152	Manifest Document No. 66125		22. Page 2 of 4	Information in the shaded areas is not required by Federal law.						
23. Generator's Name Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124 (206)622-1090					L. State Manifest Document Number							
24. Transporter 03 Company Name Consolidated Railway					25. US EPA ID Number PAD030298400		N. State Transporter's ID					
26. Transporter 04 Company Name Dart Trucking Company, Inc.					27. US EPA ID Number OHD009865825		O. Transporter's Phone (317) 267-4418					
							P. State Transporter's ID					
							Q. Transporter's Phone (800) 426-0895					
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					29. Containers		30. Total Quantity		31. Unit	R. Waste No.		
a. Waste corrosive liquids, n.o.s. (cadmium, benzene) 9 UN1760 PGIII (EPA Toxicity) [60]					5 DM		540		P	D004 D005 D006 D007 D008 D009 D010 D011 D018		
b.										D019 D021 D022 D023 D024 D025 D027 D028 D029		
c.										D035 D036 D037 D039 D040 F001 F002 F003 F004		
d.										F005 W002 W002 D002		
e. Waste flammable liquids, n.o.s. (xylene, toluene) 3 UN1993 PGII (0001, EPA Toxicity) [27]					27 DM		15,306		P	D001 D004 D005 D006 D007 D008 D009 D010 D011		
f.										D018 D019 D021 D026 D035 D036 D037 D038 D039		
g.										D040 F001 F002 F003 F004 F005 W001 W001 W002		
h. Waste environmentally hazardous substances, solid, n.o.s. (xylene, toluene) 9-UN3077 PGIII (F006) [31]					4 CF		6,980		P	D004 D005 D006 D007 D008 D009 D010 D011 D019		
i.										D021 D026 D027 D034 D035 D036 D039 D040 D043		
S. Additional Descriptions for Materials Listed Above a) WPO 000006D - - (WTI 0000006) LAB DEBRIS TO INCLUDE FUNNELS AND FILTER PAPER, WITH ARSENIC, - - - e) WPO 000004B - - (WTI 0000004) PAINT, STILL BOTTOMS, FLAMMABLE, WITH HEX, CADMIUM, CHROMIUM, LEA - - - b) WPO 000005D - - (WTI 0000005) SOLVENT CONTAMINATED RAGS WITH CARBON TETRACHLORIDE, CHLOROBENZENE - - -					T. Handling Codes for Wastes Listed Above							
32. Special Handling Instructions and Additional Information 28a) 48-302-01 28e) 48-105-60 28h) 48-093-50												
33. Transporter Acknowledgement of Receipt of Materials					Printed/Typed Name DAVID J. NEMES			Signature <i>David J. Nemes</i>		Date Month Day Year		
34. Transporter Acknowledgement of Receipt of Materials					Printed/Typed Name JAMES E OBER			Signature <i>James E Ober</i>		Date 11/18/94		
35. Discrepancy Indication Space												

9/30/96

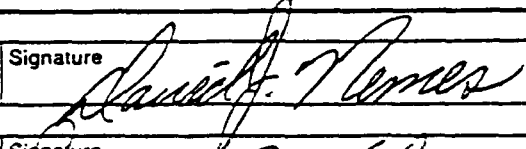
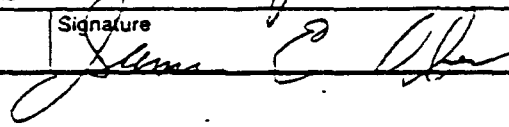
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 12/31/97

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. WAD058367152	Manifest Document No. 66125	22. Page .3 of .4	Information in the shaded areas is not required by Federal law.	
23. Generator's Name Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport WY South Seattle WA 98124 (206)622-1090				L. State Manifest Document Number		
24. Transporter Company Name				25. US EPA ID Number		N. State Transporter's ID
26. Transporter Company Name				27. US EPA ID Number		O. Transporter's Phone () -
26. Transporter Company Name				27. US EPA ID Number		P. State Transporter's ID
26. Transporter Company Name				27. US EPA ID Number		Q. Transporter's Phone () -
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.						F001 F002 F003 F004 F005 F006 W001 W002 W002
b.	Hazardous waste, solid, n.o.s. (lead) 9-NA3077 P6111	3	DM	570	P	D058 W002
c.	Waste flammable solid, n.o.s. (methyl ethyl ketone, xylene, toluene) 4.1 UN1325 (D001, EPA Toxicity) [32]	4	DM	3410	P	D001 D004 D005 D006 D007 D008 D009 D010 D011
d.						D018 D019 D021 D026 D034 D035 D036 D038 D039
e.						D040 F001 F002 F003 F004 F005 W001 W001 W002
f.	Waste batteries wet, filled with alkali 8 UN2795 P6111 [60]	2	DM	950	P	D002 D005 D006 D007 D008 D009 W001 W002
g.	Waste lithium battery, solid cathode 9 UN3090 P611 (100 #)	9	DM	3300	P	D003 W001
h.	Waste flammable liquids, n.o.s. (xylene, toluene) 3-UN1993 P611 (D001, EPA Toxicity) [27]	2	DM	1650	P	D001 D004 D005 D006 D007 D008 D009 D010 D011
i.						D018 D019 D021 D026 D035 D036 D037 D038 D039
S. Additional Descriptions for Materials Listed Above h) WPG NUS020 - - COMPUTER AND ELECTRONIC COMPONENTS WITH LEAD - .c) WPG N000010 - [WTI N000001] SOLVENT CONTAMINATED SLUDGE AND SOIL, FLAMMABLE, WITH CADMIUM, CH f) WPG NUS013 - - BATTERIES, WET, WITH POTASSIUM HYDROXIDE, MERCURY (260 PPM, BARIUM, CADMIUM, CH - g) WPG N000013 - - [WTI N000013] LITHIUM BATTERIES - .h)				T. Handling Codes for Wastes Listed Above		
32. Special Handling Instructions and Additional Information WPG N000004B - - [WTI N000004] PAINT, STILL BOTTOMS, FLAMMABLE, WITH HEX, CADMIUM, CHROMIUM, LEA - 28b) 48-756-25 28a) 49-457-30 28c) 48-081-10 28f) 48-352-10 28h) 48-105-60						
33. Transporter Acknowledgement of Receipt of Materials				Printed/Typed Name DAVID J. NEMES		Signature <i>David J. Nemes</i>
34. Transporter Acknowledgement of Receipt of Materials				Printed/Typed Name JAMES E Ober		Signature <i>James E Ober</i>
35. Discrepancy Indication Space						

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires.

GENERAL FACILITY	A. UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. WAD058367152	Manifest Document No. 66125	22. Page 4 of 4	Information in the shaded areas is not required by Federal law.		
	23. Generator's Name Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Way South Seattle WA 98124 (206)622-1090				L. State Manifest Document Number			
	24. Transporter Company Name				25. US EPA ID Number		N. State Transporter's ID	
	26. Transporter Company Name				27. US EPA ID Number		O. Transporter's Phone () -	
	29. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers No.	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
	a.							D040 F001 F002 F003 F004 F005 U080 W01 W01
	b.							W02
	c.							
	d.							
	e.							
S. Additional Descriptions for Materials Listed Above					T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information								
33. Transporter Acknowledgement of Receipt of Materials						Date		
Printed/Typed Name DAVID J. NEMES				Signature 		Month Day Year		
34. Transporter Acknowledgement of Receipt of Materials						Date		
Printed/Typed Name James E. O'Neil				Signature 		Month Day Year 11/18/94		
35. Discrepancy Indication Space								

28177

Aptus, Inc.
Environmental Services

P.O. Box 1328
Coffeyville, KS 67337
(316) 251-6380

APTUS

January 30, 1995

CERTIFICATE OF DISPOSAL

NO. 26157

NORTHWEST ENVIROSERVICE
1500 AIRPORT WAY SOUTH (98134)
P.O. BOX 24443
SEATTLE, WA 98124

A. THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO **APTUS** ON APTUS DOCUMENT #LF52N WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 (AND 40 CFR 264 IF APPLICABLE) AS OF 01/25/95. ATTACHED, IS A DETAIL REPORT WHICH IDENTIFIES THE DATE(S) OF DISPOSAL AND THE PROCESS UTILIZED FOR EACH WASTE LISTED.

B. UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S. C. 1001 AND 15 U.S. C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE. AS TO THE IDENTIFIED SECTIONS(S) (A.) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

APTUS

EPA ID # KSD981506025

Peter D. Hanley

PETER D. HANLEY, P.E.
MANAGER, ENVIRONMENTAL AFFAIRS

28127

Aptus, Inc.
Environmental Services

P O Box 1328
Coffeyville, KS 67337
(316) 251-6380

APTUS

January 30, 1995

To: CHRIS DE POPPE
NORTHWEST ENVIROSERVICE
1500 AIRPORT WAY SOUTH (98134)
P.O. BOX 24443
SEATTLE, WA 98124

From: Environmental Affairs

RE: Aptus Document No. LF52N
Customer Manifest 28122

Enclosed is your Certificate of Disposal from Aptus, which certifies that the waste material received on the referenced manifest has been properly disposed. Also enclosed is a detail summary of the movement of your material.

We appreciate your business and we look forward to assisting you with your waste management needs in the future.

Should you have any questions regarding your Certificate of Disposal, please contact Sheri Sanders at 1-316-252-1250.

Enclosures

28122

APTUS DETAIL REPORT

GENERATOR
NORTHWEST ENVIROSERVICE
 1500 AIRPORT WAY SOUTH (98134)
 P O BOX 24413
 SEATTLE WA 98124
 EPA # WA00058367152
 PHONE 2066221090
 CHRIS DE POPPE
 CODE: 000388

CORRESPONDENT
NORTHWEST ENVIROSERVICE INC
 1700 AIRPORT WAY SOUTH
 P O BOX 24413
 SEATTLE WA 98124
 PHONE 2066221090
 CHRIS DE POPPE
 CODE: 008757

MARKING # 12645
 APT DOC # LF52N
 CUST NUMBER 28122

STATE MANIFEST
 DATE OF REPORT 01/30/95
 SALESMAN
 HOLD BACK 0%

ITEM	PROTYPE	QTY	DESCRIPTION	SERIAL/IDNM #	WT	QTY	UNIT	LOCATN	SHIPMN	CYMBR	ARRIVAL	ACCEPTED	CUI/SRNC	DESTROYD	COSENT	DISPOSAL FACILITY
1	PLQID	1	PLQID	4-78719	374	34	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
2	PLQID	1	PLQID	4-78717	742	40	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
3	PLQID	1	PLQID	4-78716	828	53	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
4	PLQID	1	PLQID	4-78724	391	35	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
5	PLQID	1	PLQID	4-78718	850	54	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
6	PLQID	1	PLQID	4-78723	726	45	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
7	PLQID	1	PLQID	4-78720	664	38	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
8	PLQID	1	PLQID	4-78722	662	40	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
9	PLQID	1	PLQID	4-78721	520	36	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
10	PLQID	1	PLQID	4-78725	610	40	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
11	PLQID	1	PLQID	4-78726	625	42	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
12	PLQID	1	PLQID	4-78727	781	51	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS
13	PLQID	1	PLQID	4-78728	611	40	00	Gallo 0015200		26157	12/14/94	12/15/94	07/22/94	01/25/95	01/30/95	APTUS INCINERATOR COFFEYVILLE,KS

CONTAINER # 4030

9/30/96

Please print or type (Form designed for use on elite (12-pin) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No WA0058367152	Manifest Document No 28122	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206)622-1090				B. State Generator's ID		
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WA0058367152		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (206)622-1090		
				E. State Transporter's ID		
				F. Transporter's Phone () -		
9. Designated Facility Name and Site Address APTUS P.O. Box 1328 / HWY. 169 N. Coffeville , KS 67337		10. US EPA ID Number KSD981506025		G. State Facility's ID		
				H. Facility's Phone (316) 251-6380		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Polychlorinated biphenyls 9 UN2315 PGII (Polychlorinated biph)				No.	Type	Waste No.
[31]				13	DM	3,810 K TSCA PCB2
b.						
c.						
d.						
J. Additional Description for Materials Listed Above a) WPG 80000000A - - OIL WITH POLYCHLORINATED BIPHENYLS 150-110,000 PPM -				K. Handling Codes for Wastes Listed Above		
ASN# LF52N WO# 725685				7-22-94. 11/30/94		
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CD TO NORTHWEST ENVIROSERVICE, INC. ATTN: ESD. NWES IS NOT THE ORIGINAL GENERATOR OF THIS WASTE. A) DRUM #4-78716 THRU #4-78728 - OUT OF SERVICE DATE 8/27/94.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name William K DENIKE		Signature <i>William K Denike</i>		Month Day Year 12/09/94		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name GARY WIGGLE		Signature <i>Gary Wiggles</i>		Month Day Year 12/10/94		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name GARRETT FRIDDLE		Signature <i>Garrett Friddle</i>		Month Day Year 12/15/94		

ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: IDD073114654

01/31/95

NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

SEATTLE WA 98134

CERTIFICATE OF DISPOSAL

THE FOLLOWING WASTE RECEIVED ON UNIFORM HAZARDOUS WASTE MANIFEST NO.
36070 / WAS DISPOSED BY LANDFILLING IN AN APPROVED
TSCA LANDFILL BY ENVIROSAFE SERVICES OF IDAHO, INC., EPA ID# IDD073114654,
ON THE FOLLOWING DATES:

MATERIAL	DATE DISPOSED	MANIFEST ITEM
3 PCB ARTICLE CARCASS	12/16/94	004
8 PCB ARTICLE CARCASS	12/16/94	005
1 PCB CAPS/BALLAST(DRUM) -LF	12/16/94	006

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR SUBMISSION OF
FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS [18 U.S.C. 1001 AND
15 U.S.C 2615], I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING
THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE. AS TO THE IDENTIFIED
SECTION(S) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND
ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY
RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS,
MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE AND COMPLETE.

PRINTED NAME: LUCY B. GLERUM


SIGNATURE

TITLE: RECEIVING SUPERVISOR

REFERENCE NO: 94350021

BROKER: NORTHWEST ENVIROSERVICE INC

CONTAINER # 4172

94350021

9/30/93

Please print or type. (Form designed for use on one (12-inch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-93

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No WAD058367132	Manifest Document No 36070	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206) 622-1090				B. State Generator's ID		
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WAD058367132		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (206) 622-1090		
				E. State Transporter's ID		
				F. Transporter's Phone () -		
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview ID 83624		10. US EPA ID Number T00073114654		G. State Facility's ID		
				H. Facility's Phone (208) 384-1500		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a.	Polychlorinated biphenyls 9 UN2315 PGII (polychlorinated biphenyls) [31]		3 CW	1520	K	PCBI TSCA
b.	Polychlorinated biphenyls 9 UN2315 PGII (polychlorinated biphenyls) [31]		8 DM	2965	K	PCBI TSCA
c.	Polychlorinated biphenyls 9 UN2315 PGII (polychlorinated biphenyls) [31]		1 DM	25	K	TSCA PCBI
d.						
J. Additional Descriptions for Materials Listed Above a) WPG 11135018 - - PCB LIGHT BALLASTS AND ARTICLES 1500 PPM TO INCLUDE ALL ARTICLES FROM CLEAN-UPAN - b) WPG 11135018 - - PCB LIGHT BALLASTS AND ARTICLES 1500 PPM TO INCLUDE ALL ARTICLES FROM CLEAN-UPAN - c) WPG 11135040 - - SMALL PCB CAPACITORS (FOR LANDFILL) 150 PPM -				K. Handling Codes for Wastes Listed Above 03.		
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CD TO NORTHWEST ENVIROSERVICE, INC. ATTN: ESD. 11A) DRUM #4-78729 THRU #4-78731 OSD 7/22/94; 11B) DRUM #4-79314 THRU #4-79318 OSD 6/1/94, #4-79313 OSD 9/1/94, #4-81182 OSD 11/28/94, #4-78654 OSD 11/16/94; 11C) DRUM #4-80386 OSD 10/12/94. NOTES IS NOT ORIGINAL GENERATOR OF WASTE.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name William M. GRASBOW		Signature <i>William M. Grason</i>		Month Day Year 12/14/94		
Printed/Typed Name DAVE HUSTON		Signature <i>Dave Huston</i>		Month Day Year 12/14/94		
Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy Indication Space None 29K. weights ok per Jerry Bickowski on 12-22-94 dp.						
19. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 15. Printed/Typed Name DONNA PULLER, JR ESTE						
Signature <i>Donna Puller</i>		Month Day Year 12/14/94				

C E R T I F I C A T E O F D I S P O S A L

01/19/95

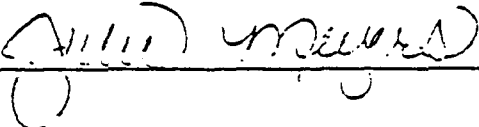
NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

SEATTLE WA 98134

THIS IS TO CERTIFY THAT WASTE AS DEFINED ON UNIFORM HAZARDOUS
MANIFEST NUMBER 75052 / WAS RECEIVED BY ENVIROSAFE
SERVICES OF IDAHO, INC., ON 01/18/95 . THE WASTE(S) WERE SUBSEQUENTLY
TREATED, AS REQUIRED BY 40 CFR PART 268 IN ESII'S PERMITS, AND
DISPOSED OF BY 01/18/95 IN ACCORDANCE WITH PERMITS AND LAWS
REGULATING THIS FACILITY (EXCEPT AS NOTED IN SECTION 19 OF THE UNIFORM
HAZARDOUS WASTE MANIFEST LISTED ABOVE).

FINAL DISPOSITION: PERMITTED LANDFILL

PRINTED NAME: JULIE MEYERS

SIGNATURE: 

TITLE: INVENTORY CONTROL ASSISTANT

REFERENCE NO: 95018010

FACILITY: ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: ID073114654

BROKER: NORTHWEST ENVIROSERVICE INC

REAR

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090

31,440P

CONTAINER # 21

95018010-002

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No WAD058367152	Manifest Document No 75052	2 Page 1 of 1	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206)622-1090				B. State Generator's ID		
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WAD058367152		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (206)622-1090		
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview, ID 83624		10. US EPA ID Number ID0073114654		E. State Transporter's ID		
				F. Transporter's Phone () -		
				G. State Facility's ID		
				H. Facility's Phone (208) 384-1500		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Non-RCRA hazardous waste solid		1 No. Type 1 CM		35/dct	P	WT01
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a) WPG 11135067 - - PAINT, STAIN, VARNISH, EPOXY, RESINS - STABILIZED -				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment: OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name WILLIAM M. GREGG		Signature 		Month Day Year 11 10 95		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name JIM WATSON		Signature 		Month Day Year 11 10 95		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19						
Printed/Typed Name Julie Meyers for ESTI		Signature 		Month Day Year 10 11 95		

C E R T I F I C A T E O F D I S P O S A L

02/02/95

NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

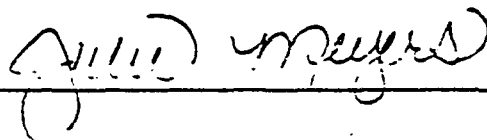
SEATTLE WA 98134

THIS IS TO CERTIFY THAT WASTE AS DEFINED ON UNIFORM HAZARDOUS
MANIFEST NUMBER 75069 / WAS RECEIVED BY ENVIROSAFE
SERVICES OF IDAHO, INC., ON 02/01/95 . THE WASTE(S) WERE SUBSEQUENTLY
TREATED, AS REQUIRED BY 40 CFR PART 268 IN ESII'S PERMITS, AND
DISPOSED OF BY 02/01/95 IN ACCORDANCE WITH PERMITS AND LAWS
REGULATING THIS FACILITY (EXCEPT AS NOTED IN SECTION 19 OF THE UNIFORM
HAZARDOUS WASTE MANIFEST LISTED ABOVE).

FINAL DISPOSITION: PERMITTED LANDFILL

PRINTED NAME: JULIE MEYERS

SIGNATURE: _____



TITLE: INVENTORY CONTROL ASSISTANT

REFERENCE NO: 95032004

FACILITY: ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: IDD073114654

BROKER: NORTHWEST ENVIROSERVICE INC

front

33880

9/30/96

CONTAINER #D05

95032004-001

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No WA0050367152	Manifest Document No 175069		2 Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124					A. State Manifest Document Number				
4. Generator's Phone (206)622-1090					B. State Generator's ID				
5. Transporter 1 Company Name Northwest EnviroService, Inc.			6. US EPA ID Number WA0050367152		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (206)622-1090				
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview, ID 83624			10. US EPA ID Number ID0073114654		E. State Transporter's ID				
					F. Transporter's Phone () -				
					G. State Facility's ID				
					H. Facility's Phone (208) 384-1500				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	a. Non-RCRA hazardous waste solid				1 CM		31,700	P	WT01
	b.								
	c.								
	d.								
J. Additional Descriptions for Materials Listed Above a) WPG 11135067 - - PAINT, STAIN, VARNISH, EPOXY, RESINS - STABILIZED -						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name William K. DENIKE			Signature <i>[Signature]</i>			Month Day Year 10/10/95			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed/Typed Name David Peckert			Signature <i>[Signature]</i>			Month Day Year 10/10/95		
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name			Signature			Month Day Year			
19. Discrepancy Indication Space									
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
	Printed/Typed Name Lynn Lawson for ESI			Signature <i>[Signature]</i>			Month Day Year 10/10/95		

SYSTECH ENVIRONMENTAL CORPORATION
245 North Valley Road
Xenia, Ohio 45385
(513)372-8077

CERTIFICATE OF DESTRUCTION

This hereby certifies that waste as defined on Hazardous Waste
Manifest No. 55529, from NORTHWEST ENVIROSERVICE INC.,
EPA Identification number WAD058367152, was received by
Systech Environmental Corporation EPA RCRA Permit Identification
number KSD980633259.

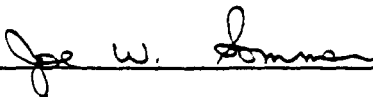
The waste material was received on: 01/23/95

This waste is to be re-used in accordance with Federal
(40 CFR 260 thru 270) and corresponding State Hazardous waste
regulations.

Re-use method: Hazardous Waste burned for energy recovery in
a Cement Kiln.

Destruction Commenced on or about the following date*:

02-08-95



Joe Sommer / Carlotta Myers
Transportation Coordinator

The date given above refers to when your waste shipment,
which has been processed into fuel, was introduced into the
cement kiln for re-use as a waste fuel.

CONTAINER # RUSX 435

9/30/95

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-97

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No WA0058367152	Manifest Document No 55529	2 Page 1 of 2	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number		
4 Generator's Phone (206)622-1090				B. State Generator's ID		
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WA0058367152		C. State Transporter's ID		
7. Transporter 2 Company Name Burlington Northern Railroad		8. US EPA ID Number MN0048341738		D. Transporter's Phone (206)622-1090		
9. Designated Facility Name and Site Address Systech Environmental Corp. LaForge South Cement Road P.O. Box 111 Fredonia, KS 66736		10. US EPA ID Number KSD980633259		E. State Transporter's ID		
				F. Transporter's Phone (206)467-3471		
				G. State Facility's ID		
				H. Facility's Phone (316) 378-4451		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit
		No Type				Waste No.
a. Waste flammable liquids, n.o.s. (xylene, toluene) 3 UN1993 PGII (EPA Toxicity, D001) [27]		1 TC		20,000		G
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a) WPQ AA09S268 - - SOLVENT MIXTURE WITH BARIUM, CADMIUM, CHROMIUM, LEAD, MERCURY (260 PPM, SELENIUM, -				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION. <i>Release # 11002 Do Not Agitate This Car</i>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name William K DENIKE		Signature <i>[Signature]</i>		Month Day Year 11 1 1995		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name David P... ..		Signature <i>[Signature]</i>		Month Day Year 11 15 1995		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name JR Nelson		Signature <i>[Signature]</i>		Month Day Year 11 10 1995		
19. Discrepancy Indication Space Tailer light weight is 71200 lbs. Actual tare weight was 88250 lbs leaving about 1894 lbs of sludge on car. We received 132950 lbs @ 0.90 g/ml = 17734 gallons. Returned sludge to generator.						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Joe W. Sommer		Signature <i>[Signature]</i>		Month Day Year 10 11 23 1995		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires ~~9/30/96~~ X

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. WAD058367152	Manifest Document No. 55529	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.		
23. Generator's Name Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124 (206)622-1090				L. State Manifest Document Number			
				M. State Generator's ID			
24. Transporter Company Name		25. US EPA ID Number		N. State Transporter's ID			
				O. Transporter's Phone () -			
26. Transporter Company Name		27. US EPA ID Number		P. State Transporter's ID			
				Q. Transporter's Phone () -			
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers	30. Total	31. Unit	R. Waste No.	
			No.	Type	Quantity	Wt/Vol	
a.							WP01 WC02
b.							
c.							
d.							
e.							
g.							
h.							
i.							
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information							
33. Transporter Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name			Signature			Month Day Year	
34. Transporter Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name			Signature			Month Day Year	
35. Discrepancy Indication Space							

GENERATOR

TRANSPORTER

RECEIVER

17013LCT-CL) 18/11/91 26440

CONTAINER # DINO 41

9/30/96

Please print or type (Form designed for use with 12-point typewriter)

Form Approved OMB No. 2050-0039 Expires 9/30/96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No WAD058367152	Manifest Document No 34288	2. Page 1 of 1	Information in the shaded areas is not required by Federal law				
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124				A. State Manifest Document Number					
4. Generator's Phone (206)622-1090				B. State Generator's ID					
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WAD058367152		C. State Transporter's ID		D. Transporter's Phone (206)622-1090			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone () -			
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview, ID 83624		10. US EPA ID Number ID0073114654		G. State Facility's ID		H. Facility's Phone (208) 384-1500			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
	a.	Waste environmentally hazardous substances, solid, n.o.s. (cadmium, chromium) 9 UN3077 P0III (EPA Toxicity, F006) [31]			1	CM	28,780	P	D006 D007 D008 F006 W02 WC02
	b.								
	c.								
	d.								
J. Additional Descriptions for Materials Listed Above a) WPQ 11135093 - - DEWATERED LINE SLUDGE, ELECTROPLATING OPERATIONS - UNSTABILIZED, CADMIUM, CHROMIUM -				K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name WILLIAM M. GRASGAW				Signature <i>William M. Graspaw</i>		Month Day Year 1 11 95			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LARRY SCHMIDT				Signature <i>Larry Schmidt</i>		Month Day Year 1 11 95			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name KEVIN LARSON for ESI									
Signature <i>Kevin Larson</i>				Month Day Year 10/18/95					

C E R T I F I C A T E O F D I S P O S A L

12/13/94

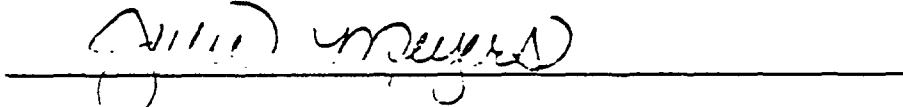
NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

SEATTLE WA 98134

THIS IS TO CERTIFY THAT WASTE AS DEFINED ON UNIFORM HAZARDOUS
MANIFEST NUMBER 34329 / WAS RECEIVED BY ENVIROSAFE
SERVICES OF IDAHO, INC., ON 12/09/94 . THE WASTE(S) WERE SUBSEQUENTLY
TREATED, AS REQUIRED BY 40 CFR PART 268 IN ESII'S PERMITS, AND
DISPOSED OF BY 12/09/94 IN ACCORDANCE WITH PERMITS AND LAWS
REGULATING THIS FACILITY (EXCEPT AS NOTED IN SECTION 19 OF THE UNIFORM
HAZARDOUS WASTE MANIFEST LISTED ABOVE).

FINAL DISPOSITION: PERMITTED LANDFILL

PRINTED NAME: JULIE MEYERS

SIGNATURE: 

TITLE: INVENTORY CONTROL ASSISTANT

REFERENCE NO: 94343011

FACILITY: ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: IDD073114654

BROKER: NORTHWEST ENVIROSERVICE INC

CONTAINER # 37

94343011-008

22080 9/30/96

Please print or type. (Form designed for use on elite (12-pin) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WAD058367152	Manifest Document No 34329		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124					A. State Manifest Document Number				
4. Generator's Phone (206)622-1090					B. State Generator's ID				
5. Transporter 1 Company Name Northwest EnviroService, Inc.		6. US EPA ID Number WAD058367152		C. State Transporter's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (206)622-1090					
				E. State Transporter's ID					
				F. Transporter's Phone () -					
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview , ID 83624					10. US EPA ID Number ID0073114654				
					G. State Facility's ID				
					H. Facility's Phone (208) 384-1500				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. Waste environmentally hazardous substances, solid, n.o.s. (benzene) 9 UN3077 PGIII (benzene) [31]					1	CM	22,760	P	D018 WT02
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above a) WPG 11135091 - - API SEPARATOR SLUDGE, STABILIZED, WITH BENZENE (50 PPM, ABSORBENT PADS, ROCKS, DI -						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name WILLIAM K DENIKE					Signature <i>[Signature]</i>			Month Day Year 11 29 94	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name David River Teau					Signature <i>[Signature]</i>			Month Day Year 11 29 94	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name					Signature			Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Lynn Lawson for ESTE									
Signature <i>[Signature]</i>					Month Day Year 11 29 94				

C E R T I F I C A T E O F D I S P O S A L

12/21/94

NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

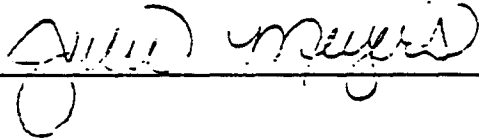
SEATTLE WA 98134

THIS IS TO CERTIFY THAT WASTE AS DEFINED ON UNIFORM HAZARDOUS
MANIFEST NUMBER 34337 / WAS RECEIVED BY ENVIROSAFE
SERVICES OF IDAHO, INC., ON 12/15/94 . THE WASTE(S) WERE SUBSEQUENTLY
TREATED, AS REQUIRED BY 40 CFR PART 268 IN ESII'S PERMITS, AND
DISPOSED OF BY 12/15/94 IN ACCORDANCE WITH PERMITS AND LAWS
REGULATING THIS FACILITY (EXCEPT AS NOTED IN SECTION 19 OF THE UNIFORM
HAZARDOUS WASTE MANIFEST LISTED ABOVE).

FINAL DISPOSITION: PERMITTED LANDFILL

PRINTED NAME: JULIE MEYERS

SIGNATURE: _____



TITLE: INVENTORY CONTROL ASSISTANT

REFERENCE NO: 94349017

FACILITY: ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: IDD073114654

BROKER: NORTHWEST ENVIROSERVICE INC

CONTAINER # 46

9434907-001

30440

9/30/96

Please print or type (Form designed for use on elite (12-pin) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9/30/96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WA0058367152	Manifest Document No. 34337	2. Page 1 of 1	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124			4. Generator's Phone (206)622-1090	A. State Manifest Document Number		
5. Transporter 1 Company Name Northwest EnviroService, Inc.			6. US EPA ID Number WA0058367152	C. State Transporter's ID		
7. Transporter 2 Company Name			8. US EPA ID Number	D. Transporter's Phone (206)622-1090		
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview ID 83624			10. US EPA ID Number ID0073114654	E. State Transporter's ID		
				F. Transporter's Phone () -		
				G. State Facility's ID		
				H. Facility's Phone (208) 384-1500		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a.	Waste environmentally hazardous substances, solid, A.O.S. (benzene) 9 UN3077 PGIII (benzene) (31)	1	CM	30,980	P	0018 WT02
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above a) WPQ 11135091 - - API SEPARATOR SLUDGE, STABILIZED, WITH BENZENE (50 PPM, ABSORBENT PADS, ROCKS, DI -				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name WILLIAM K DENIKE		Signature 		Month Day Year 12 04 94		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name FRANK FLEWEL		Signature 		Month Day Year 12 04 94		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Wynn Lawson for ESTE		Signature 		Month Day Year 12 13 94		

C E R T I F I C A T E O F D I S P O S A L

01/11/95

NORTHWEST ENVIROSERVICE INC (SEATTLE WA)
1500 AIRPORT WAY SOUTH
P.O. BOX 24443

SEATTLE WA 98134

THIS IS TO CERTIFY THAT WASTE AS DEFINED ON UNIFORM HAZARDOUS
MANIFEST NUMBER 75046 / WAS RECEIVED BY ENVIROSAFE
SERVICES OF IDAHO, INC., ON 01/09/95 . THE WASTE(S) WERE SUBSEQUENTLY
TREATED, AS REQUIRED BY 40 CFR PART 268 IN ESII'S PERMITS, AND
DISPOSED OF BY 01/09/95 IN ACCORDANCE WITH PERMITS AND LAWS
REGULATING THIS FACILITY (EXCEPT AS NOTED IN SECTION 19 OF THE UNIFORM
HAZARDOUS WASTE MANIFEST LISTED ABOVE).

FINAL DISPOSITION: PERMITTED LANDFILL

PRINTED NAME: JULIE MEYERS

SIGNATURE: 

TITLE: INVENTORY CONTROL ASSISTANT

REFERENCE NO: 95009005

FACILITY: ENVIROSAFE SERVICES OF IDAHO, INC.
P.O. BOX 16217
BOISE, IDAHO 83715-6217
EPA ID: IDD073114654

BROKER: NORTHWEST ENVIROSERVICE INC

CONTAINER # 22

12,000 P

9/30/95

Please print or type (Form designed for use on elite (12-pitch) typewriter)

95009075-001

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No WA0050367152		Manifest Document No 75046		2 Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Northwest EnviroService, Inc. P.O. Box 24443/1500 Airport Wy South Seattle WA 98124						4 Generator's Phone (206)622-1090		A. State Manifest Document Number			
5. Transporter 1 Company Name Northwest EnviroService, Inc.						6. US EPA ID Number WA0050367152		C. State Transporter's ID			
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone (206)622-1090			
9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc. 10.5 Miles NW of Grandview Grandview, ID 83624						10. US EPA ID Number ID0073114654		E. State Transporter's ID			
								F. Transporter's Phone () -			
								G. State Facility's ID			
								H. Facility's Phone (206) 384-1500			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	15. Waste No.
a. NON-RCRA HAZARDOUS WASTE SOLID						1 CM		13,020 P			H302
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above a) WPC 11135075 - - DISCARDED NON-RCRA MATERIAL TO INCLUDE DEBRIS, DIRT, ABSORBENT -						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information CERTIFICATE OF DISPOSAL REQUESTED. SEND ORIGINAL MANIFEST AND CERTIFICATE OF DISPOSAL TO NORTHWEST ENVIROSERVICE, INC. ATTN: ENVIRONMENTAL SERVICES DIVISION.											
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Printed/Typed Name William K DENIKE				Signature <i>William K Denike</i>				Month Day Year 1 6 95			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name Marty Wagner				Signature <i>Marty Wagner</i>				Month Day Year 1 6 95			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name Julie Mellers for ESTI				Signature <i>Julie Mellers</i>				Month Day Year 1 19 95			

APPENDIX B

Analytical Procedures

Planned analytical procedures were presented in the project submittals for the HTW Operations Plan. Those parts of the plan that covered the planned analytical procedures are summarized in Table B-1. The "test name" in Table B-1 is further defined in this same Appendix in the Standard Operating Procedures (SOP) using a capital letter as a key. The SOP also was a part of the project submittals in the HTW Operations Plan.

Chain of Custody forms for off-site testing are included in this appendix of the final report. Test results are presented in Appendix C.

Testing

NWES will perform the tests specified in the contract documents. In addition to those tests there will be a number of tests required to manifest and dispose of the identified HTW. Attached is a "Testing Summary List" which summarizes both the tests required by the contract documents and required for transportation and disposal.

Attached also are the sampling procedures, and equipment requirements for each of the tests.

Each test will have a completed "Testing Procedure Verification Form" completed and attached to the Quality Control report for the date taken. A sample of the "Testing Procedure Verification Form" is attached.

Actual test reports will be submitted after receipt. These reports will reference the test number and date taken.

An informational copy of test performed by off-site commercial laboratories will be furnished to the Contracting Officer directly.

NWES hasn't determined which lab would be utilized at this time. Any required off-site testing facilities will be approved by the COE. One of the three COE approved labs listed below would be used:

- 1) COLUMBIA ANALYTICAL SERVICES
4684 Business Park Blvd, Bldg. D
Anchorage, Alaska 99503
- 2) ANALYTICA ALASKA INC.
811 W. 8th. Avenue
Anchorage, Alaska 99501
- 3) NORTHERN TESTING LABORATORIES, INC.
3330 Industrial Avenue
Fairbanks, Alaska 99701

what's this?

Attachments:

Testing Summary List
Sampling Procedures & Equipment Requirements
Testing Procedure Verification Form

Table B-1
Testing Summary List

The following is a list of tests to be performed per Specifications Section 01440 paragraph 3.7.1

Site Name	Paragraph Reference	Waste Stream	Test Name (See Key)	Test Freq.	# of Tests	Haz-Cat Specialist	Laboratory
Airport Terminal Area	A/1.7.1	Transformer Oil					
Heat & Electric Power Building	B/1.7.3	Transformer Oil					
Emerg. Power/ Operations Bldg.	C/1.7.4	Transformer Oil					
Direction Finder Site	D/1.7.9	Transformer Oil					
Power & Communication line Corridors	E/1.7.8	PCB Soil	A	Twice	2	L. Wilkinson	Field - NWES
Heat & Electric Power Building	F/1.7.3	Switchgear Oil					
Emergency Power/ Operations Building	G/1.7.4	Switchgear Oil					
Cargo Beach Road Drum Field	H/1.7.2	POL in Drums					
Airport Terminal Area	I/1.7.1	Compressed Gas	N.A.	N.A.	N.A.	N.A.	N.A.
Paint and Dope Storage Building	J/1.7.5	Paints in Cans	B	1/Unmarked Can	9	L. Wilkinson	Field - NWES
Water Supply Building	K/1.7.7	Paints In Cans	B	1/Unmarked Can	50	L. Wilkinson	Field - NWES
Paint and Dope Storage building	L/1.7.5	1,1,1-Trichloroethane					
Paint and Dope Storage Building	M/1.7.5	Dielectric Oil	C	1/Drum	1	L. Wilkinson	Field - NWES
Gen. Supply Warehouse & Mess Hall Warehouse	O/1.7.6	Calcium hypochlorite	D	1/Drum	1	L. Wilkinson	Field - NWES

Site Name	Paragraph Reference	Waste Stream	Test Name (See Key)	Test Freq.	# of Tests	Haz-Cat Specialist	Laboratory
Gen. Supply Warehouse & Mess Hall Warehouse	P/1.7.6	Oxalic Acid	E	1/Drum	1	L. Wilkinson	Field - NWES
Gen. Supply Warehouse & Mess Hall Warehouse	Q/1.7.6	Sodium Hydroxide					
Gen. Supply Warehouse & Mess Hall Warehouse	R/1.7.6	Isopropyl Alcohol					
Gen. Supply Warehouse & Mess Hall Warehouse	S/1.7.6	Paints, Solvents, POLs	F	1/Can	12	L. Wilkinson	Field - NWES
Emergency Power/Operations Building	T/1.7.4	POL in Drum	F	1/Can	1	L. Wilkinson	Field - NWES
Paint and Dope Storage Building	U/1.7.5	Paints, Solvents, POLs	F	1/Can	150	L. Wilkinson	Field - NWES
Heat and Electric Power Building	V/1.7.3	Paint Related materials	F	1/Can	9	L. Wilkinson	Field - NWES

Test Key

- A ELISA
- B Electrical Resistance
- C Chlor-D-Tect
- D Oxidizer Paper
- E PH
- F NWES Field Screening Test Method

**Standard Operating Procedure For Hazard
Categorization Screening In the Field
At St. Lawrence Island, Alaska**

To reduce the number of analytical samples standard hazard categorization screening in the field will take place. These techniques will provide information to characterize the hazardous wastes on St. Lawrence Island for consolidation and final sampling.

The equipment necessary for field screening is listed in Table 1. The work station will be set up in an area that is well ventilated prior to collecting samples. Field personnel will be responsible for collecting samples, recording results, packaging and shipping samples to an outside lab for analyses. The person performing the tests will be a hazardous materials specialist or a chemist.

To minimize waste all samples collected for field screening will be returned to their original container.

All sample results will be written on a Hazardous Waste Profile Data Sheet (Figure 1) using the parameters described below.

1. **Sample Number:** A sample number will be assigned to each field sample and each drum (or other container) so the results can be cross referenced with the drum (or other container) number.
2. **Sample Description:** Describe the physical nature of the sample. Include color and opacity or transparency for each layer. Also note the percent of free liquid and solid.
3. **Water Solubility:** Drop 1 ml. of sample into a beaker of water. If the sample mixes completely it is considered miscible with water. If the sample floats or sinks it is considered insoluble.
4. **ELISA (method A):** NWES will use enzyme-linked immunosorbent assay field test kits with a detection limit of 10 ppm for PCB soil analysis. Two ELISA field samples will be collected from the excavated area and analyzed. Procedures will be per the manufacturers instructions.

5. **Resistivity (method B):** Electrical current travels through aqueous samples but will not through oil-based samples. A Micronta volt-ohm meter will be used to help differentiate between the two. Immerse the electrodes in the sample with 1/4" spacing. If the marker on the scale moves up drastically this is a good indication of a water-based sample. If the marker on the scale does not move this is a reasonable indication of an oil-based sample.
6. **Halogenated Hydrocarbons (method C):** To test for halogenated hydrocarbons a Chlor-D-Tect kit will be used. The detection level for the kit is 1000 ppm. The procedure is outlined in each kit.
7. **Oxidizer (method D):** To test for an oxidizer place a drop or two of sample on Oxidizer Paper (KI-starch paper). If the oxidizer paper turns blue or black after a minute the sample is an oxidizer.
8. **Corrosivity (method E):** For solids, prepare a solution with equal amount of water; using a pipette place a couple drops of sample on to a strip of pH paper. To read the pH compare the color of the pH strip with the scale on the pH container.

Table 1
Equipment Needed For Field Screening

<u>Equipment</u>	<u>Used with method</u>	<u>Calibration</u>
ELISA Kit	A	age-dated
Micronta Volt-Ohm Meter	B	1/day
Chlor-D-Tect Kit	C	age-dated
Oxidizer Paper	D	age-dated
PH Paper	E	age-dated

Figure 1

HAZARDOUS WASTE PROFILE DATA SHEET

DATE: _____

CLIENT: _____

JOB #: _____

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER					
WPO NO.					
Number of Layers					
1 - Layer Color, Description & Percent					
2					
3					
% H ₂ O - Liquid					
% Solid					
Solubility					
Flash Point (NF = No Flash, BF = Ball Flame)					
Chlorination					
pH					
Oxidizer					
Reactivity					
COMMENTS					
ANALYTICAL SCHEME REQUIRED:					

B-8

FEAR 3-19-04 THU 0:05 1:04



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: _____

Test Number: _____

Test Location: _____

Sample Procedures Comply (Circle) YES NO If not specify
why: _____

Facilities Available (Circle) YES NO If not specify
why: _____

Testing Eqpt. Available (Circle) YES NO If not specify
why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test
documentation prepared (Circle) YES NO If not specify
why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): _____

NTL ANALYTICAL SERVICES REQUEST FORM

Fairbanks Office: 3330 Industrial Ave.
 Phone: (907) 456-3116
 Fax: (907) 456-3125

Anchorage Office: 2505 Fairbanks St.
 Phone: (907) 277-8379
 Fax: (907) 274-9645

Shaded area for NTL use only.

Account #:	Received: <input checked="" type="checkbox"/> Anch	Fbks	Received: <input type="checkbox"/> Anch	Fbks	EB
Trmit From: Anch Fbks	Invoice: Anch Fbks	Date Received: 7/15/94	Time Received: 1205		
Client: Northwest Enviro service		Sampled by:			
Mailing Address: 1813 E. First		Date Required: / /			
City, St, Zip: Anchorage, AK 99501		Copy to ADEC: Yes No			
Phone: 272 9007		PWS#			
Fax: 272 6805		Reporting Format: Reg Data De			
Contact: Larry Wilkinson		Call with Results: Yes No			
Contract/PO#: 5608		Fax Results: Yes No			
Source: N.E. Cape					

Client I.D. #'s	Date/Time Sampled	Analysis Requested	NTL ID#	Matrix	Prep	Test ID#'s
940705-5	7/5/94	PCB in Oil method 8080	A132070			
		Insulating oil				

Comments: 50% surcharge
 Results 7/18/94
 Hold sample to be picked up
 After analysis

Special Charges:		Chain of Custody Charge:	x \$5.00 =
Kit Rental Charge:	x \$	Hold Charge:	x \$2.50 =
Expediting Charge:	x \$10.00 =	Other:	x \$
Shipping Charge:	x \$		

Sample Disposition:

Return samples to client:	(No Charge)
Hold samples over 30 days:	(\$2.50/month/sample charge)
Disc of samples after 60 days:	(No Charge)
Other:	(May be charged)

Client Signature: *J.E. Wilkinson*



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4138

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

GENERATOR NAME: COE-Northeast Cape

GENERATOR CONTACT: _____

GENERATOR PHONE NO: _____

NWES CONTACT: L.E. Wilkinson

JOB # _____

				ANALYSIS REQUESTED							
				CORRECTING ANALYSIS ONLY INFORMATION ATTACHED	LIABILITIES FOR DISPOSAL	HAZARDOUS CORROSIVITY REACTIVITY (D01-D04)	D-LISTED METALS BY TCLP (D05-D07)	D-LISTED PESTICIDES AND HERBICIDES BY TCLP (D012-D017)	D-LISTED ORGANICS (D018-D043)	F-LISTED ORGANICS (F01-F05)	OTHER (PLEASE SPECIFY)
GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED						
940705-1		Acid Sand	1								
-2		Sodium Meta	1								
-3		Sodium Silicate	1								
-4		Sodium Hypochlorite	1								
-L1, 2, 3, 4, 5		Soap	1								
-L6		Soap	1								
-5		Enzyme	1								
-6		Insul. Oil									

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	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
Sampled by	<i>L.E. Wilkinson</i>	L.E. Wilkinson	Northwest Enviro	1900 hrs 7/5/94	
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4933

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

ANALYSIS #
079288533

GENERATOR NAME: USCOE

JOB # 210-5689

GENERATOR CONTACT: Ron Broyles

GENERATOR PHONE NO: N/A 353-7550

NWES CONTACT: L.E. Wilkinson

ANALYSIS REQUESTED						
CONFIRMING ANALYSIS ONLY INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D004-D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	D-LISTED ORGANICS D018-D043	F-LISTED ORGANICS F001-F005 (OTHER (PLEASE SPECIFY))

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED			WPCQ AK 4868	WPCQ AK 4863
NEC 116	NEA 660-1	Site Restoration	1	X	940818-DS				
NEC 117	NEA 660-2	Site Restoration	1	X	940818-DT				

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
Sampled by	<i>[Signature]</i>	Mitch Herfindahl	NWES	1006 7/29/94	
Received by	<i>J.E. Millman</i>	Larry Wilkinson	NWES	8/12/94	
Relinquished by	<i>L. Reston</i>	<i>[Signature]</i>	NWES	8/12	
Received by	<i>KS</i>	KEVIN STRADLER	NWES	8/18	
Relinquished by					
Received by					



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4937

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260 622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206 467-7358

Rush!!

GENERATOR NAME: Corps NE Cape

JOB # 210-5689

ARBITR 079285855

GENERATOR CONTACT:

GENERATOR PHONE NO:

NWES CONTACT: Larry Wilkinson

ANALYSIS REQUESTED						
CHARACTERIZE FOR DISPOSAL	IDENTIFIABILITY CONFUSIVITY REACTIVITY D001 D003	D-LISTED METALS BY TCLP D004 D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012 D017	D-LISTED ORGANICS U001 U043	F-LISTED ORGANICS F001 F005	OTHER (PLEASE SPECIFY)

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED						
NEC 121	NEA 660-1 940829.0Y	Site Restorat ^{ion}	1	X							WPR AK 4864

B-14

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments
Sampled by		M. Herfindahl	NWES	7/29/94 8/1/94	
Received by	J.E. Wilkinson	L.E. Wilkinson	NWES	8/16/94	
Relinquished by	LARRY RATER	[Signature]	NWES	8/16	
Received by	[Signature]	ROBERT BARK	NWES	11:45 am	
Relinquished by				8/29/94	
Received by					



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4955

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260 622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

GENERATOR NAME Corps - N.E. Cope

JOB # 210-5689

AIRDILL #
0792858323

GENERATOR CONTACT _____

GENERATOR PHONE NO _____

NWES CONTACT L.E. Wilkinson

ANALYSIS REQUESTED						
CONFIRMING ANALYSIS ONLY INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	INITIABILITY CORROSIVITY REACTIVITY D001 D003	LISTED METALS BY TCLP D004 D011	LISTED PESTICIDES AND HERBICIDES BY TCLP D002 D017	LISTED ORGANICS D018 D043	OTHER (PLEASE SPECIFY)

GENE MAIL # SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED		
NEC-105	NEA-650-4	Site Restoration	1	1	940829.1N		<p>please - check pH electronically ASAP and report result to LE. Wilkinson by FAX</p>

Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
<i>M. Hertindahl</i>	M. Hertindahl	NWES	7/29/94	
<i>L.E. Wilkinson</i>	L. Wilkinson	NWES	8/18/94	
<i>L. Rester</i>	L. Rester	NWES	4/18	
<i>Ronald Bork</i>	Ronald Bork	NWES	2:00pm 8/29/94	



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4938.

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260 622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

Rush!!

AIRBILL
#

0792858544

GENERATOR NAME

Corps N.E. Cape

JOB #

210-5689

GENERATOR CONTACT

GENERATOR PHONE NO:

NWES CONTACT

Larry Wilkinson

ANALYSIS REQUESTED

CONFIRMING ANALYSIS ONLY INFORMATION ATTACHED	CHARACTERIZE FOR USE/USE	KNOWLEDGE CORROSIVITY REACTIVITY (D01 D02)	D L I S T E D METALS (BY ILCP D004 D011)	D L I S T E D PESTICIDES AND HERBICIDES BY TCLP D012 D017	D L I S T E D ORGANICS (D018 D019)	F L I S T E D ORGANICS (D011-D016)	OTHER (PLEASE SPECIFY)
---	--------------------------	--	--	---	------------------------------------	------------------------------------	------------------------

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED			
<i>NEC 115</i>	<i>NEA-662-2</i> <i>940829.0X</i>	<i>Outdated Chem</i>	<i>1</i>	<i>X</i>				<i>WPQ AK4908</i>

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments
Sampled by		<i>M. Herfindahl</i>	<i>NWES</i>	<i>7/29/94</i>	
Received by	<i>J.E. Wilkinson</i>	<i>L. Wilkinson</i>	<i>NWES</i>	<i>8/16/94</i>	
Relinquished by	<i>[Signature]</i>	<i>Larry Heron</i>	<i>NWE</i>	<i>8/16</i>	
Received by	<i>[Signature]</i>	<i>Richard Berk</i>	<i>NWES</i>	<i>11:37 AM 8/27/94</i>	
Relinquished by					
Received by					



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

3679

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

Rush

GENERATOR NAME: Corps - NE Cape

JOB # 210-5689

GENERATOR CONTACT: _____

GENERATOR PHONE NO: _____

NWES CONTACT: Larry Wilkinson / Ed Erickson

ANALYSIS REQUESTED									
CONFIRMING ANALYSIS ONLY INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IDENTIFIABILITY TOXICITY REACTIVITY D001-D003	LISTED METALS BY TCLP D004-D011	LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	LISTED ORGANICS D018-D043	LISTED ORGANICS FOOTFOOD	OTHER (PLEASE SPECIFY)		
GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED				
L-6	NEA650-1	Military Site	1	NO SAMPLE SENT!!					AK4915
NEC-104	NEA650-3	restoration	1	NO SAMPLE SENT!!					AK4908
NEC-106	NEA650-5	[Handwritten scribble]	1	944807-DE					AK4912
NEC-107	NEA650-6		1						AK4911
NEC-108	NEA650-7		1	944807-DF					600700
NEC-109	NEA650-8		1	φG					AK4907
NEC-110	NEA650-9		1	φH					600900
NEC-111	NEA650-10		1	944807-DI					AK4913
944805-4	NEA650-11								AK4867

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments
Sampled by					
Received by	Billie Loehr	BILLIE LOEHR	NWES - AK	8/1/94	
Relinquished by	Billie Loehr	BILLIE LOEHR	NWES - AK	8/2/94	
Received by	K. Stead	K STEAD	NWES	8/7/94	
Relinquished by					
Received by					

WHITE - Laboratory

CANARY - Sales Administrator

PINK - Customer

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NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

3681

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

Rush

GENERATOR NAME: Corps - NE Cape

JOB # 210-5689

GENERATOR CONTACT: _____

GENERATOR PHONE NO: _____

NWES CONTACT: Larry Wilkinson / Ed Erickson

ANALYSIS REQUESTED							
CONFIRMING ANALYSIS ONLY INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D004-D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	D-LISTED ORGANICS F018-D043	F-LISTED ORGANICS F001-F005	OTHER (PLEASE SPECIFY)

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED		
940705-4	NEA650-11	Military Site Cleanup	1		940805-1J		AK4867

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
Sampled by					
Received by	<i>Billie Loehr</i>	BILLIE LOEHR	NWES - AK	8/1/94	
Relinquished by	<i>Billie Loehr</i>	BILLIE LOEHR	NWES - AK	8/2/94	
Received by	<i>K. Stradler</i>	K. STRADLER	NWES	8/5/94	6:10 PM
Relinquished by					
Received by					



NORTHWEST ENVIROSERVICE INC

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

3680

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

Rush

GENERATOR NAME: Corps - NE Cape

JOB # 210-5689

GENERATOR CONTACT: _____

GENERATOR PHONE NO.: _____

NWES CONTACT: Larry Wilkinson / Ed Erickson

ANALYSIS REQUESTED									
CONFIRMING ANALYSIS ONLY - INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D004-D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	D-LISTED ORGANICS D018-D043	F-LISTED ORGANICS F001-F006	OTHER (PLEASE SPECIFY)		
							TWO SAMPLES REQUIRED		
<u>NEC-107</u>	<u>NEA650-6</u>	<u>Military Site Cleanup</u>	<u>1</u>		<u>940805-1I</u>				<u>AK4911</u>

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments
Sampled by					
Received by	<u>Billie Coehr</u>	<u>BILLIE COEHR</u>	<u>NWES-AK</u>	<u>8/1/94</u>	
Relinquished by	<u>Billie Coehr</u>	<u>BILLIE COEHR</u>	<u>NWES-AK</u>	<u>8/2/94</u>	
Received by	<u>KESI</u>	<u>KE STRADER</u>	<u>NWES</u>	<u>8/5/94</u>	<u>6:00PM</u>
Relinquished by					
Received by					

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NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4936

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

PO# 5662

GENERATOR NAME: US Army COE

GENERATOR CONTACT: Ron Broyles

JOB # 210-5689

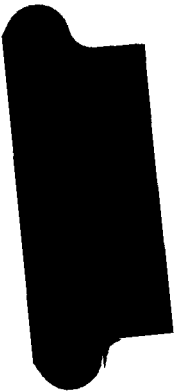
GENERATOR PHONE NO.: _____

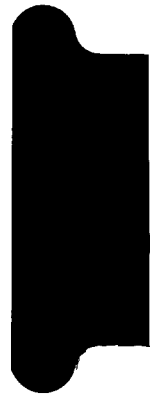
NWES CONTACT: L.E. Wilkinson

ANALYSIS REQUESTED							
CONFIRMING ANALYSIS ONLY: INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D004-D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	D-LISTED ORGANICS D018-D043	F-LISTED ORGANICS F001-F005	OTHER (PLEASE SPECIFY) <u>PCB in Oil method 8080</u>

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED								
NEC-118		Waste Oil	1										X
NEC-119		" "	1										X
NEC-120		" "	1										X

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
Sampled by	<i>L.E. Wilkinson</i>	L.E. Wilkinson	NW Enviro	8/16/94	
Received by	<i>A. Caudell</i>	A. Caudell - NTL		8/16/94	
Relinquished by					
Received by					
Relinquished by					
Received by					





APPENDIX E

Summary of Daily OC Reports (DOCR)

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER DAC-93-C-0048 **PROJECT TITLE** HTLV Removal at NE Cape - St. Lawrence Island
CQC REPORT NUMBER #1 **LOCATION AND TEAM** St. Lawrence Island, Alaska
WEATHER CONDITIONS **CONTRACTOR** Northwest Enviro Service, Inc., Anchorage, AK.
TEMP LOW 35°
TEMP HIGH 45°
WIND SPEED 5 to 25 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Travel		Anchorage to St. Lawrence Island
	Procuring Materials & Supplies	- None	
	Site Safety Meeting	- Work Site	
	Survey of and familiarization with work site		
	Project Mgr. took various samples as required in previous agreement		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

None due to travel & mobilization day

Instructions Given to the Contractor

Verbal Written

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

COE's GAR was stuck in Culena due to airplane's mechanical failure and was unable to proceed to St. Lawrence Island - Unable to have Mutual Understanding Meeting

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

Mobilization partially completed
Site Survey Undertaken

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Project Mgr	1	14	None				
Site Supt.	1	14					
CQC Systems Mgr	1	14					
Hqz Mgt Tech	1	14					
TOTAL HOURS		<u>56</u>					

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C ___ LEVEL D X
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO X
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO X
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES X NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Had a site safety meeting conducted by Site Superintendent, Mitch Herfindahl
Read & discussed site safety plan

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES X NO ___
TYPE OF TEST METHOD RESULTS

PH Oil Drums 9
PH Oil Drums 10.11
PID's Range of 9-26 (Non Petroleum)

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES X NO ___
TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

Acid Sand
Sodium Meta. A sample of each of these
Sodium Silicate were taken by Larry Workson
Sodium Hypochlorite & will be tested in Anchorage
Soap Engine by NWES
Soap Fuel Oil

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES X NO ___
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES X NO ___

REMARKS

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7-5-94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE Ron Broyls DATE 7/5/94 SUPERVISOR Michael F. Malva DATE 14 July 94



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/5/94 Test Numbers: 1-8

Test Location: St. Lawrence Island

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: all tests + test samples taken in the field

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): Larry Wilkinson to record

If tests are analyzed off-site, which testing facilities: NWES

Additional Comments: These tests were all taken by Larry Wilkinson - NWES - in compliance with contract requirements

See attached copy from NWES

Completed By (Signature): Church Heath



NORTHWEST ENVIROSERVICE INC.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

4138

1700 AIRPORT WAY SOUTH
SEATTLE, WA 98134
260-622-1090

P.O. BOX 24443
SEATTLE, WA 98124
FAX 206-467-7358

GENERATOR NAME: COE - Northeast Cape

GENERATOR CONTACT: _____

JOB # _____

GENERATOR PHONE NO.: _____

NWES CONTACT: L.E. Wilkinson

ANALYSIS REQUESTED

CONFIRMING ANALYSIS ONLY - INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D004-D011	D-LISTED PESTICIDES AND HERBICIDES BY TCLP D012-D017	D-LISTED ORGANICS D018-D043	F-LISTED ORGANICS F001-F008	OTHER (PLEASE SPECIFY)
---	---------------------------	---	-----------------------------------	--	-----------------------------	-----------------------------	------------------------

GENERATOR SAMPLE ID	NWES SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ONE SAMPLE REQUIRED	TWO SAMPLES REQUIRED								
940705-1		Acid Sand	1										
-2		Sodium Meta	1										
-3		Sodium Silicate	1										
-4		Sodium Hypochlorite	1										
-L1, 2, 3, 4, 5		Soap	1										
-L6		Soap	1										
-5		Enzyme	1										
-6		Insul. Oil											

	Signature	Printed Name	Company Name	Time / Date	Special Instructions / Comments:
Sampled by	<i>L.E. Wilkinson</i>	L.E. Wilkinson	Northwest Enviro	1900 hrs 7/5/94	
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Daily Health and Safety Briefing
Summary Form

Date 7-5-94 Time 1300 Hr. Time 1350 Hr.
Began Ended

Briefing Location NWES - weather port

Team Members Attending Chuck Heath, ADAM NAQUIN, LARRY WILKINSON,
Mitch Herfindahl

Days Covered

Presented by: M.I. Herfindahl

TRAVEL - Anchorage to Nome, Procurement of goods in Nome,
TRAVEL - Nome to S.E. CAPE.

Site Familiarization & ~~SAFETY~~ HAZARD AWARENESS

Special Health and Safety Concerns

Presented by: M.I. Herfindahl

Asbestos - POL'S, PCB'S and MISC. HW around the
entire site. SLIPS, TRIPS, Falls, Boards w/nails,
Protruding objects, Hanging wires, Falling objects and Debris
Keep away from contaminated areas.

Team Members' Suggestions

C.H. - Buddy Sys., Watch for Bears - while on tour of site
ALL personell should stay together

Changes to Health and Safety Plan

NONE

Other Comments

Chuck Heath
Michael Naquin
L.S. Wilkinson

Form Completed by: M.I. Herfindahl
Date: 7-5-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DAC-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island
 COC REPORT NUMBER: FE 2 LOCATION AND TEAM: St. Lawrence Isl. Hazmat Team
 WEATHER CONDITIONS: _____ CONTRACTOR: N.W. Enviro Service Inc - Anchorage
 TEMP LOW: 35
 TEMP HIGH: 45
 WIND SPEED: 30-60 mph - Constant

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Cleaned up quarters + gear from fire + wind damage of previous night		
	Secured area from winds		
	Unloaded supplies + materials from airplane		
	Had a mutual understanding meeting with COE		
	Inventoried supplies		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Preparatory Inspection - for Remaining + Disposing of PCB Contaminated Soils

Instructions Given to the Contractor

Vocal _____ Written _____

Has Anything Occurred Which May Lead to a Delay or Finding of Fault?

Yes No

- Time needed to secure + clean up quarters from wind + fire damage from last night
- Ben Bryles, OAR, fortunately able to reach island at noon

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

Mobilization about completed

Manpower and Equipment

LABOR			EQUIPMENT			HOURS USED
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	
Project Mgr	1	12	4 Wheeler	2	Polaris	1 each
Site Supt	1	12	Super saw	1	Milwaukee	1
COC Systems Mgr	1	12				
HazMat Tech	1	12				
		TOTAL HOURS				<u>48</u>

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C _____ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Tripping Hazards to be removed in work areas
All to be aware of heater fumes notify others immediately
All light objects to be secured so as to not cause
a hazard in the wind

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES _____ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES _____ NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES _____ NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES _____ NO

REMARKS

Much repair work done on our Weatherport today
Severe winds are constant and cause safety hazards
No Gasoline delivered with supplies + materials

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER

Church Heath DATE 7/6/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

Ron Brayle

DATE

7/6/94

SUPERVISOR

Michael J. Maho

DATE

14 July 94

PREPARATORY INSPECTION CHECKLIST

Contract No.: DAC 85-93-C-0048 Date 3/10/91
 Project: HTW Removal From St. Lawrence Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Disposal of PCB Contaminated Soils

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Mitch Herfindahl</u>	<u>Site Supt.</u>	<u>NWES</u>
2.	<u>Ron Broyles</u>	<u>CCE - GAR</u>	<u>COE</u>
3.	<u>Chuck Heath</u>	<u>CQC Systems Mgr</u>	<u>NWES</u>
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. TRANSMITTALS INVOLVED:

	<u>NUMBER & ITEM</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>	<u>ACTION CODE</u>
1.	<u>1560-1.2 - Equipment + Material Drawings</u>	_____	<u>A</u>
2.	_____	_____	_____
3.	<u>1570-1.3 - AIC Vessel + Vehicle OP. C.O.C.</u>	_____	<u>A</u>
4.	_____	_____	_____
5.	<u>2920-1.5 - HTW Operation Plan C.O.C.</u>	_____	<u>A</u>
6.	<u>CIH Site Inspection</u>	_____	_____
7.	<u>2930-1.3 - Off-Site Transport. C.O.C.</u>	_____	<u>A</u>
8.	_____	_____	_____
9.	<u>2940-1.3 - Off-Site Disposal C.O.C.</u>	_____	<u>A</u>
10.	_____	_____	_____

C. Have all items involved been approved? Yes No

D. What items have not been approved?

	<u>ITEM</u>	<u>STATUS</u>
1.	<u>NA</u>	_____
2.	_____	_____
3.	_____	_____

E. MATERIALS AND EQUIPMENT:

- 1. All are materials and equipment on hand? Yes No
- 2. Are all materials and equipment in compliance? Yes No
- 3. Is work to be "built upon" in compliance? Yes No

F. LIST CONSTRUCTION TOLERANCE AND WORKMANSHIP STANDARDS:

- 1. 3' square by 6" deep hole to be excavated as stated in 2920
- 2. All work done as prescribed in 49 CFR 175 + 40 CFR 261
- 3. All work done as prescribed by Contract DACA-85-93-C-0048
- 4. Appropriate decon procedures to be followed
- 5. _____
- 6. See attached manufacturer's recommendations

G. INSPECTIONS/TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

	<u>INSPECTIONS/TESTS</u>	<u>FREQUENCY</u>
1.	<u>ELISA - (Test A)</u>	<u>Twice - (to be done by Montgomery Watson)</u>
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

I. CHECKLIST:

- 1. Review of all contract requirements completed? Yes No
- 2. Proposed construction procedure in compliance? Yes No
- 3. Ability or training of work crew is acceptable? Yes No
- 4. Testing laboratory and equipment approved? Yes No
- 5. Forms for test reports approved? Yes No
- * 6. Job Hazard Analysis discussed and accepted? Yes No
- 7. DDI566/Insurance/Permits obtained? Yes No
- 8. Required referenced/publications available? Yes No
- 9. Manufacturer's safety precautions available (MSDS)? Yes No
- 10. Initial inspection date scheduled for: 7-7-93
- 11. Remarks: Corrective action for Items Marked "No."
 - 1. #8 - Copies submitted to CCE in Nov. 1993
 - 2. _____
 - 3. _____
 - 4. _____
 - 5. _____

Ronald S. Boyle
QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath
QUALITY CONTROL REPRESENTATIVE

7/6/94

Preparatory Meeting

regarding: Removal and Disposal
of PCB Contaminated Soils

attending: Ron Boyles - COE - GVAR
Chuck Heath - NWE S - COE
Mitch Herfindahl - NWE S - Site Supt

discussion: Location of the area
to be excavated was confirmed
as were the dimensions of
the prescribed measurements.
The exact area is to be
staked.

Equipment need was identified
as to contract compliance
shovel - drums - labeling

Methods of securing shovel
and boots were confirmed

Testing Procedure - ELISA - done
once by Montgomery Watson
was verified

The 10 items on the Preparatory
Inspection Checklist were gone
through and checked appropriately
Ron Boyles advised NWE S on
to safety precautions during the job

Daily Health and Safety Briefing
Summary Form

Date 7-6-94 Time 0700 Time 0730
Begin End

Briefing Location NWES. weatherport.

Team Members Attending M. Herfindahl, Heath, A. Naquin, L. Wilkinson

Day's Objectives Presented by: M.S. Herfindahl

Repair, Clean, and Modif. Living Quarters
MOVE Empty Fuel drums out of the wind.

Special Health and Safety Concerns Presented by: M.S. Herfindahl

Slips, Trips, Falls, Wind - Flying debris - Wind blown doors -
Fires, Fumes from Heaters, Smoke detectors - Asbestos & Haz waste
Additional Tools needed. (Things that can be worked on while waiting for
Corp Representative.)

Team Members Suggestions

Items To Do: Removal of Taping Haz. - Hanging Cords & Wires
distribute Empty drums To Locations where needed.

Changes to Health and Safety Plan

NONE

Other Comments

J.E. Whinn
Chuck Heath
Michael C. Blag-

Form Completed by M.S. Herfindahl

7-6-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape-St. Lawrence Isl.
 CQC REPORT NUMBER: #3 LOCATION AND TEAM: St. Lawrence Is., AK - NE. Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroServices, Inc
 TEMP LOW: 40
 TEMP HIGH: 45
 WIND SPEED: 40-90 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|---|----------|---------------|
| - | Kept the camp from blowing away | | |
| - | Picked up debris from wind storm - Camp maintenance + clean up | | |
| - | Salvaged food + relocated it after tent was destroyed | | |
| - | Work last night from 7:00 PM to 2:00 AM Securing Camp - Flew to Nome for further instructions | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

None due to storm + departure of QAR and our crew to Nome

Instructions Given to the Contractor

Verbal Written _____

Put on hold the work to be done on the excavation of the PCB contaminated soil due to the fact that the ELISA test must be performed by Montgomery Watson, whose personnel have all vacated the Island

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No _____

Storm dictated that no work be performed except to survive + secure camp facilities

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes No _____

70-90 mph winds prevented normal work to be done
Flew to Nome at 8:30 PM to await further instructions

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 wheelers	2	Poliers	2	2
CQC Supt, Mar	1	12					
Haz Mat Tech	1	12					

TOTAL HOURS 36

Plus 7 addition hours each while securing camp facilities

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Constant reminders as to watch for flying debris
Fire hazards extreme due to winds - stoves shut off
Electrical hazards present and discussed

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

Today was entirely devoted to keeping the camp in shape and trying to make it livable for Tomahawk's work. P.A.R. and Montgomery. Situation very serious. All had a great hand in combatting the situation.

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7-7-94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

Ron Broyfs

DATE

7/7/94

SUPERVISOR

Michael F. Mahern

DATE

14 July 94

Daily Health and Safety Briefing
Summary Form

Date 07-07-94 Time 0800 Time 0830
Begin End

Briefing Location NWES - weather port

Team Members Attending Heath, C. - Naguin, A. - Hertindahl, M.

Days Objectives

Prepared by: M.H. Hertindahl

Cleared debris from camp area, - Keep all gear secure -
EVALUATE Transformer Area's For safe debris clearing operations and
begin clearing debris - devise plan for safe removal of transformers

Special Health and Safety Concerns

Prepared by: M.H. Hertindahl

SLIPS, TRIPS, FALLS, NAILS, Hanging debris, Blowing debris,
4 Wheeler safety - Telephone operations - First Aid Kit Location,

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Chris Heath
Michael A. Naguin

Form Completed by: M.H. Hertindahl
07-07-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93E0048 PROJECT TITLE: HTW Removal of NE Cape - St. Lawrence Is., AK
 LOC REPORT NUMBER: #4 LOCATION AND TEAM: St. Lawrence Is, AK - NE Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc.
 TEMP LOW: 40
 TEMP HIGH: 50
 WIND SPEED: 0-5 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| - | Flew from Nome back to NE Cape after receiving verbal authorization from COE QAR to continue prep work | | |
| - | Moved all material & supplies from air strip to staging area in old shop | | |
| - | Cleared debris in BLDG 98 for transformer removal | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Instructions Given to the Contractor

Proceed with work as verbal orders were given. Site Superintendent to continue working.

Verbal Written _____

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

Staging area completed
Transformer lines removed from transformers in BLDG 98

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt.	1	12	4Wheeler	2	Polars	10 hrs.
QC Systems Mgr.	1	12				
HazMat Tech	1	12				

TOTAL HOURS 36

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Steel shanks placed in boots for working inside buildings

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO
TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO
TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

Storm which created havoc has affected - normal work procedures are now in order

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7-8-94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

Ron Bryles

DATE

7/8/94

SUPERVISOR

Michael J. Moran

DATE

14 July 94

Daily Health and Safety Briefing
Summary Form

Date 07-08-94 Time 0700 Time 0715
Begin

Working Location NWES - weather Post

Team Members Attending Heath, C. - NAGWIN, A. - Herfindahl, M.

Clear debris from Around Transformers and disconnect Electrical Lines. Continue moving supplies from Airport to designated storage location for shop.

Special Health and Safety Concerns
SLIPS, TRIPS, FALLS, NAILS, Hanging debris, Power Tools, 4 wheelar safety, (PPE - safety glasses, Hard hats & overalls and Respirators w/ Heca Filter

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Chris Heath
Michael A. Nagwin

Form Completed by M. Herfindahl
Date 07-08-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape-St. Lawrence Is
 COC REPORT NUMBER: # 5 LOCATION AND TEAM: St. Lawrence Island, AK. NE Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc.
 TEMP LOW: 40
 TEMP HIGH: 54
 WIND SPEED: 0-25 mph

Work Activities Performed This Date

Reference (NAS/Tech Sec)	Activity & Location	Quantity	Subcontractor
Rem/Disp PCB Containers	Material Bldg 98 and Bldg 110		
Ron Broyles COC QAR returned today			

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Instructions Given to the Contractor

More + Proper tools would make the job much easier to do and expedite it.
 Verbal Written _____

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

Prepared building 98 for pumping of transformers
 Removed most of ceiling which was collapsed over trans farmers + switches in building 110, west side

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt.	1	12	4 Wheelers	2	Polaris	10
COC Systems Mgr	1	12	Chain saw	1	Homelite	2
Haz Mat Tech	1	12				

TOTAL HOURS 36

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

*Full face respirators used as asbestos was present
Awareness of falling timbers, ceiling tiles, and
walls was constantly stressed*

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST	METHOD	RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST	EPA TEST METHOD	QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO N/A

REMARKS

*Camp has been put back together -
NWS crew has fully mobilized and has
proceeded with work in preparation for
pumpjacking and removing transformers & switches*

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Healt DATE 7/9/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

Ron Boyles

DATE

SUPERVISOR

DATE

Michael J. Malcom 14 July 94

Daily Health and Safety Briefing

Summary Form

Case 07-09-94 Time 0700 Time 0730
Began 0700 Ended

Briefing Location NWES - Weather Post

Team Members Attending Heath, C., - NAQUIN, A. - Hertfindahl, M.

Clearing Objectives Presented by: M.P. Hertfindahl
Continue clearing debris from AROUND TRANSFORMERS -
Remove WALLS and obstructions. - MAINTAIN All Equipment in
good operating condition.

Special Health and Safety Concerns Presented by: M.P. Hertfindahl
SLIPS - TRIPS - Falls - Hanging Debris - Asbestos - Falling debris
while cutting or removing - Power tools & Cords
PPE - (gloves - Leather boots - steel Toe & shank) (Respirator - Hepa Filter)
(SAFETY GLASSES)

Team Members Suggestions
- Full face Respirator -

Changes to Health and Safety Plan

Other Comments

Church Heath
Michael C. Nag

Form Completed by M.P. Hertfindahl
Case 07-09-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACN-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island
 COC REPORT NUMBER: #6 LOCATION AND TRAIL: St. Lawrence Island, AK - NE Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc.
 TEMP LOW: 40
 TEMP HIGH: 45
 WIND SPEED: 0-20 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Preparation phase in the North + West ends of building 110 were completed for the pumping of and removal of the transformers and switches located there - all obstructions removed, walls removed, ramps built wires + cables cut, all debris removed area flagged as to PCBs		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Preparatory Inspection - on - Remove + Dispose of PCB Liquids / Containers / Materials

Instructions Given to the Contractor

Verbal Written _____

Clean cement pads better as the viscous to be placed there will not puncture.

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 Wheeler	2	Polaris	10	
QOC Systems Mgr	1	12	Chain Saw	1		2	
Hazmat Tech	1	12	Sawzall	1		2	

TOTAL HOURS 36

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Helmets required for all wheelbar operations
Respirators (full face) to be used while working on
the north section of Bldg 110 when asbestos shingles
are being cut or removed

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ___ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES ___ NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES ___ NO ___ NA

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES ___ NO ___ NA

REMARKS

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7/10/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

Ron Broyles

DATE

7/10/94

SUPERVISOR

Michael J. Malcom

DATE

14 July 94

PREPARATORY INSPECTION CHECKLIST

Contract No.: DACS5-93C-0048 Date 7-10-94
 Project: HTW Removal at NE Cape - St. Lawrence Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Removal + Dispose of PCB, Liquids, Containers / Materials

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Broyles</u>	<u>QAR</u>	<u>CCE</u>
2.	<u>Chuck Heath</u>	<u>CCE Systems Mgr</u>	<u>NWES</u>
3.	<u>Mitch Herfindahl</u>	<u>Site Superintendent</u>	<u>NWES</u>
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. TRANSMITTALS INVOLVED:

	<u>NUMBER & ITEM</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>	<u>ACTION CODE</u>
1.	<u>01560-1.2 Equipment + Material</u>	<u>C-0V</u>	<u>Approved</u>
2.	<u>Decontamination</u>		
3.	<u>01570-1.3 A/C Vessel +</u>	<u>C-0V</u>	<u>Approved</u>
4.	<u>Vehicle Operations</u>		
5.	<u>02920-1.5 HTW Operations</u>	<u>C-0V</u>	<u>Approved</u>
6.	<u>Plan-CIH Site Inspt.</u>		
7.	<u>02930-1.3 OFF Site Transport</u>	<u>C-0V</u>	<u>Approved</u>
8.	<u>02940-1.3 OFF Site Disposal</u>	<u>C-0V</u>	<u>Approved</u>
9.	_____	_____	_____
10.	_____	_____	_____

C. Have all items involved been approved? Yes No

D. What items have not been approved?

	<u>ITEM</u>	<u>STATUS</u>
1.	<u>NA</u>	_____
2.	_____	_____
3.	_____	_____

E. MATERIALS AND EQUIPMENT:

- 1. All are materials and equipment on hand? Yes No
- 2. Are all materials and equipment in compliance? Yes No
- 3. Is work to be "built upon" in compliance? Yes No

F. LIST CONSTRUCTION TOLERANCE AND WORKMANSHIP STANDARDS:

- 1. Oil to be pumped from transformers + switches
- 2. Transformers + switches to be removed + crated
- 3. Oil will be consolidated into type -17-E 55 gal drums
- 4. PCB Labels to be applied to drums - IFTW Markers Class 9 Lubrils
- 5. Appropriate decontamination procedures to take place
- 6. See attached manufacturer's recommendations

G. INSPECTIONS/TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

	<u>INSPECTIONS/TESTS</u>	<u>FREQUENCY</u>
1.	NA	
2.		
3.		
4.		
5.		

I. CHECKLIST:

- 1. Review of all contract requirements completed? Yes No
- 2. Proposed construction procedure in compliance? Yes No
- 3. Ability or training of work crew is acceptable? Yes No
- 4. Testing laboratory and equipment approved? Yes No
- 5. Forms for test reports approved? Yes No
- 6. Job Hazard Analysis discussed and accepted? Yes No
- 7. DD1566/Insurance/Permits obtained? Yes No
- 8. Required referenced/publications available? Yes No
- 9. Manufacturer's safety precautions available (MSDS)? Yes No
- 10. Initial inspection date scheduled for: 7-10-94
- 11. Remarks: Corrective action for Items Marked "No." _____
- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Ron Boyles
QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath
QUALITY CONTROL REPRESENTATIVE

7/10/94

Minutes for: Preparatory Meeting

- Remove and Dispose of PCB Liquids / Containers / Materials

Attending:

Ron Broyles — COE, QAR
Chuck Heath — COE Systems Mgr
Mitch Herfindahl — Site Supt
Adam Nagium — Hay Mat Tech

Operation procedures were discussed for the prepping stage, pumping of, and transporting transformers and switches and their encased oil.

Decon and safety procedures were emphasized and agreed upon by all.

Spillage protection will be a high priority with visqueen, rhino kids, and absorbent pads placed in strategic places around the transformers + switches.

Appropriate labels discussed as was crating and storing in a staging area near the air field.

Daily Health and Safety Briefing
Summary Form

Date 07-10-94 Time 0700 Time 0730
Begin Location NWES - weather Post

Team Members Attending Heath, C. - NAQUIN, A. - Herfindahl, M. -
Broyles, R.

Start Comments Presented by: M.F. Herfindahl
Complete cleanup of Transformer Rm on west side
of building #110 - START Tearing out the wall of
Transformer Rm on the Northside of building #110

Safety Health and Safety Concerns Presented by: M.F. Herfindahl
SLIPS - TRIPS - Falls - over Hanging objects - NAILS -
Power Tools - 4 Wheeler Safety - Wind blown debris -
Asbestos Shingles - Piles of Lumber & unstable Footing -
P.P.E. - HARD hats - Safety glasses - Leather gloves - Boots w/
Steel TOE & Shank

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments
Level C while Removing the wall on the North Side of
Building #110

Michael A. Nog
Chuck Heath
Ron Broyles

Form Completed by M.F. Herfindahl
07-10-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 95-93-C-00018 PROJECT TITLE: HITW Removal at NE Cape St. Lawrence Isl., AK
 COC REPORT NUMBER: #7 LOCATION AND TEAM: St. Lawrence Island, AK - NE Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro. Service, Inc.
 TEMP LOW: 40
 TEMP HIGH: 50
 WIND SPEED: 0-10 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect) Activity & Location Quantity Subcontractor

- Prep Work for servicing switches & transformer
- Removal of Contaminated soil and transformer platform
- Numbered and labeling most buildings
- Recon. Inventory of Hazard materials in buildings done by PAR and G.C.

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Unit 14 - Major defensible feature of work being: Remove and dispose of PCB contaminated soils

Instructions Given to the Contractor

Verbal Written _____

Unless a spare tire for trailer is obtained much work time will be lost as continuous to hand pumping needs to be done on the existing. Here with a continual leak

Has Anything Occurred Which May Lead to a Delay or Finding of Fact? Yes _____ No

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

- Buildings 98 and 110 (North South, West) ready for pumping by tomorrow morning or mid morning
- Removal of PCB soil and contaminated platform completed

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt	1	12	4 Wheeler	2	Polaris	10
G.C. Systems Myr	1	12	Chain Saw	1	Hauselite	1
Hazmat Tech	1	12	Electric Saw	1		2
Hazmat Tech	1	12				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C LEVEL D
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

*Buddy system emphasized
Asbestos preventant - make sure respirator core used while working around it
Hard hats at all times, safety glasses too*

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO _____

TYPE OF TEST Soil METHOD EN SYS - samples taken RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO _____
TYPE OF TEST EN SYS EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

2 baggies representing composite samples taken from 5 different areas in excavated pit

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO NA
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO _____

REMARKS

*- Very compatible crew - OAR, CGC, Site Supt. and HazMat Techs. work very well together.
- Work is progressing but more equipment and people would speed things up*

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7/11/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE Ron Boyles DATE 7/11/94 SUPERVISOR Michael J. Maloon DATE 14 July 94

INITIAL INSPECTION CHECKLIST

Contract No.: DACA 85-93-C-0048 Date 7/7/94

Project: HTW Removal at NE Cape-St. Lawrence Is. Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Dispose of PCB Contaminated Soils

A. PERSONNEL PRESENT, INCLUDING WORK CREW:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Broyles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>CC</u>	<u>NWES</u>
3.	<u>Mitch Herfindahl</u>	<u>Site Superintendent</u>	<u>NWES</u>
4.	<u>Adam Naquin</u>	<u>Haz Mat Tech</u>	<u>NWES</u>
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. INDICATE EXACT LOCATION OF FEATURE/ITEM INSPECTED: Soil beneath transformer platform adjacent to the White Alice Site

C. MATERIALS AND EQUIPMENT BEING USED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

D. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS: YES NO

IF NOT, EXPLAIN: _____

E. CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

STATE AREAS WHERE IMPROVEMENT IS NEEDED: _____

F. REQUIRED INSPECTIONS AND TESTS ARE DEMONSTRATED AND IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES _____ NO

IF NOT, EXPLAIN: An ENSYS test was substituted for an ELISA test by Montgomery Watson personnel. According to them this is a more thorough and sensitive test than an ELISA test. The QAR and I gave the go ahead on this test.

G. SAFETY PROCEDURES OF HAZARD ANALYSIS FOLLOWED. YES NO _____

IF NOT, EXPLAIN CORRECTIVE ACTION: _____

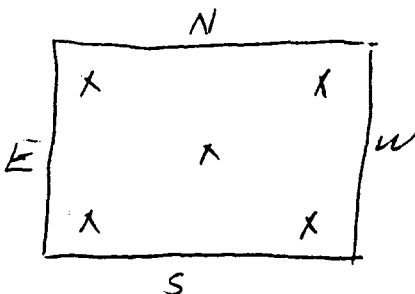
H. INSTRUCTION RECEIVED FROM GOVERNMENT REPRESENTATIVE (INCLUDE ANY DISCUSSION ON TESTING, CONTROL PROCEDURES, AND DEFINITIVE DESCRIPTION OF THE AGREED ON QUALITY OF WORKMANSHIP):

1. QAR requested that sample areas from
2. the excavated area be charted
3. _____
4. Rocks over 3" in diameter need not be
5. containerized and shipped as PCBs
6. _____
7. Strict decon procedures are to be followed
8. _____
9. _____
10. _____

Ron Brooks
QUALITY ASSURANCE REPRESENTATIVE

Church Heath
QUALITY CONTROL REPRESENTATIVE

3' X 3' X 6" ^{deep} EXCAVATION



x - Sample areas
AS-5

2 composite samples
taken from 5 areas

7/11/94

Initial Inspection Minutes

Defensible Feature: Remove and Dispose
of PCB Contaminated Soils

Attending - Ron Boylon - QAR, CCE
Chuck Heath - CQC - NUES
Mitch Herfindahl - Site Supt - NUES
Adan Niquin - Hazmat Tech - NUES

Compliance with contract requirements
were discussed such as size of excavation,
3' x 3' x 6" and demolition of the transformer
platform. Location of the site was verified.

Testing appointment was made
for a ELISA test by Montgomery
Watson personnel at conclusion of excavation.

Safety factors discussed as were
complete decon procedures.

All attending the inspection
meeting agreed on as to the above
compliances and procedures



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/11/94 Test Number: ENSYS TEST

Test Location: Soil beneath the platform which previously housed a transformer - located adjacent to the White Alice Site

Sample Procedures Comply (Circle) YES NO If not specify

why:

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

two-5 Composite samples were taken from the 3'x3'x6" hole

Facilities Available (Circle) YES NO If not specify

why: _____

Testing Eqpt. Available (Circle) YES NO If not specify

why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify

why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: An ENSYS test was substituted for an ALISA test. This was done by Montgomery Watson personnel. This type of test is supposedly superior to an ALISA test.

Completed By (Signature): Cheryl Heath

Daily Health and Safety Briefing
Summary Form

Date 07-11-94 Time 0700 Time 0730
Begin End

Working Location SWES - Weather Post

Team Members Attending Heath, C., - NAQUIN, A. - Heffner, M. -
Broyles, R. - LAVOIE B.

Clear S.E. Transformer Rm. & path to it in Building number 110
MAKE burial containment pits for each Rm. cleared -
STAKE out PCB Soil Area South of Camp - distribute drums
to Transformers & Switches

Special Health and Safety Concerns
SLIPS - TRIPS - Falls - NAILS - wind Blown debris - Asbestos -
Hanging debris - Power Tools - Hand Tools - unknown contaminated areas

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naquin
Church Heath
Ron Broyles
Robert P. Lavoie

Form Completed by M.F. Heffner
7-11-94

Daily Health and Safety Briefing
Summary Form

Case 07-11-94 Time 1300 Time 1315
Begin End

Working Location NWES - weatherport

Team Members Attending Heath, C. - Naquin, A. - Lavoie, B. -
Herfindahl, M. - Broyles, R. -

Site Objectives M.P. Herfindahl
Excavation of Soil (PCB contaminated) & MISC. Timbers
South of Camp site

Special Health and Safety Concerns M.P. Herfindahl
Slips - Trips - Falls - unstable Rocks - Falling debris -
(PPE - NO RIPS or TEARS)

Team Members' Suggestions

Changes to Health and Safety Plan
DECOR - Wash shovels & picks & chainsaw chain & Bar
Remove from AREA -
PPE - Wash & Remove Remove Boot covers & discard - Remove
Tyvek & outer gloves & discard - discard ALL contaminated
material -

Other Comments

Michael C. Naquin
Robert Kashi
Chuck Heath
Ron Broyles

Form Completed by M.P. Herfindahl
Date 07-11-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island
 COC REPORT NUMBER: #8 LOCATION AND TEAM: St. Lawrence Island - NE Cape
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro Service, Inc.
 TEMP LOW: 40
 TEMP HIGH: 54
 WIND SPEED: 0-5 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|---|----------|---------------|
| - | Prepped all transformers + switches in Bldgs. 78, 110 | | |
| - | Inventoried Bldgs. 111 and paint shop + found HTWs specified on specs for removal | | |
| - | Pumped approximately 77 gals. of transformer oil from Bldg 110 - South Room | | |
| - | Pumped 1-2 gals. of switch oil from switch in Bldg 110 - North Room | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Initial Inspection on Removing + Disposing of PCB Liquids / Containers / Materials
Follow Up on remove + dispose of PCB Contaminated Soils
 - Test results by Montgomery Watson proved NEGATIVE

Instructions Given to the Contractor

Verbal Written _____

Excavated area below transformer site adjacent to White Alice site needs to be refilled as indicated in specs. (This will be done tomorrow)

Need a scale immediately for pre weighing containers

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

All transformers and switches ready to be pumped - Site prep completed
3 transformers in Bldg-110 (south side) were pumped
All buildings inventoried by QAR + COC for HTWs indicated in specs
All HTWs found that are specified for removal

Manpower and Equipment

LABOR CLASSIFICATION	NUMBER	HOURS	EQUIPMENT		HOURS USED
			EQUIPMENT	NUMBER	
Site Supt.	1	12	4 Wheelers	2	10
COC Systems Mgr	1	12	Chainsaw	1	1
HazMat Tech	1	12	Generator	1	6
HazMat Tech	1	12			

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Nails always a hazard as are insecure overhead obstructions

Pumper needs to be monitored frequently

Chain saw safety emphasized at morning safety meeting

First Aid Kit to be readily available at all times

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES _____ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES _____ NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES _____ NO NA

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES _____ NO NA

REMARKS

Continual leaking of trailer tire results in a lot of lost work time - Spare needed
Transformers being pumped at 25 gallons per hour by the end of the day
A scale needed ASAP

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER

Chuck Heath

DATE

7/12/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

Ron Broules

DATE

7/12/94

SUPERVISOR

Michael J. Malson

DATE

14 July 94

INITIAL INSPECTION CHECKLIST

Contract No.: DACA 55-93-C-0045 Date 7/12/94

Project: HTW Removal at NE Cape-St. Lawrence Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Dispose of PCB Liquids/Containers/Materials

A. PERSONNEL PRESENT, INCLUDING WORK CREW:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Broyles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>COE</u>	<u>NWES</u>
3.	<u>Mitch Hertindah</u>	<u>Site Sup.</u>	<u>NWES</u>
4.	<u>Adam Naguin</u>	<u>Fluz Mat Tech</u>	<u>NWES</u>
5.	<u>Bob Lunde</u>	<u>Fluz Mat Tech</u>	<u>NWES</u>
6.			
7.			
8.			
9.			
10.			

3. INDICATE EXACT LOCATION OF FEATURE/ITEM INSPECTED: Bldgs. 98 + 110 (North Side, West Side South Side)
Transformers + switches to be pumped + removed

C. MATERIALS AND EQUIPMENT BEING USED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

D. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS: YES NO

IF NOT, EXPLAIN: _____

E. CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

STATE AREAS WHERE IMPROVEMENT IS NEEDED: _____

F. REQUIRED INSPECTIONS AND TESTS ARE DEMONSTRATED AND IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

G. SAFETY PROCEDURES OF HAZARD ANALYSIS FOLLOWED. YES NO

IF NOT, EXPLAIN CORRECTIVE ACTION: _____

H. INSTRUCTION RECEIVED FROM GOVERNMENT REPRESENTATIVE (INCLUDE ANY DISCUSSION ON TESTING, CONTROL PROCEDURES, AND DEFINITIVE DESCRIPTION OF THE AGREED ON QUALITY OF WORKMANSHIP):

1. Strict decon procedures to be adhered to
2. at all times
3. _____
4. All prescribed safety gear and worker
5. protection levels required for the task
6. to be undertaken
7. Absorbent pads to be available at all times
8. Drums to be properly diked
9. _____
10. _____

Ron Brooks
QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath
QUALITY CONTROL REPRESENTATIVE

7/12/94

Initial Inspection Minutes

Definable Feature of Work: Remove +
Dispose of PCB liquids/
Containers/Materials

attending: Ron Boyles - QAR - COE
Chuck Heath - CRC - NWE
Mitch Hefendahl - Site Supt - NWE
Adam Naquin - HazMat Tech - NWE
Bob Larve - HazMat Tech - NWE

Contract requirements reviewed

Decon procedures set up according
to specs

Containment dikes with appropriate
lining and absorbent pads set up

Pump inspected for use

Class C worker protection level for the
pumper agreed upon

One person to monitor the person pump
ing also agreed upon

All safety requirements such as
nails, broken glass, and overhead
obstructions dealt with

Pumping began about 10:30 PM on 7/12/94
with a rather slow flow rate -
Site superintendent is working to
increase the rate of flow

Daily Health and Safety Briefing
Summary Form

Date 07-12-94 Time 0700 Time 0730
Began Ended

Briefing Location NWES - weather port

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, B. -
Broyles, R. - Herfindahl, M.

Jobs Checked Presented by: M. Herfindahl

Complete preping Transformer Rms. For pumping
operations - pump Transformer oil into drums
Start Pumping & S. Rm Bldg. 110

Special Health and Safety Concerns Presented by: M. Herfindahl

Slips - Trips - Falls - Nails - Hanging objects - Asbestos -
Level C while pumping & moving debris -
Power Tools - No Spills

Team Members' Suggestions

Changes in Health and Safety Plan

All PPE will be Thrown away After Each Use -

Other Comments

) Ron Broyles
Charles Heath
Robert Lavoie
Michael A. Nagin

Presented by: M. Herfindahl
07-12-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DAEA 85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island, AK
 COC REPORT NUMBER: #9 LOCATION AND TEAM: St. Lawrence Island - NE Cape NWES
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro Service, Inc
 TEMP LOW: 40
 TEMP HIGH: 62
 WIND SPEED: 0 to 5 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| | Ed Erickson, Ron Bryles, & Chuck Heath did a walk about tour of the site today. | | |
| | Also did a pay estimate and work progress | | |
| | Reviewed and discussed Larry Wilkinson NWES report on lab analysis of materials & HTWS taken during his visit to NE Cape on 7/5 & 7/6. Copies will be attached | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

- ✓ Preparatory Inspection for Removal of Paints Trichloroethane, Calcium Hypochlorite, Oxalic Acid, Sodium Hydroxide, Isopropyl Alcohol, Solvents, & Paint Related Materials
- ✓ Follow Up on Removal of PCB Soil

Instructions Given to the Contractor

Verbal Written _____

- ✓ As suggested by the GAR, have MSDS book or sheets readily available for the HazMat Techs who are working in the Paint Storage Bldg.
- ✓ There should be a HazMat test on the sump oil to see if PCBs are in it

Has Anything Occurred Which May Lead to a Delay or Finding of Fact? Yes _____ No

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

- 90 gallons of oil pumped from transformers in BLDG 110 (NORTH)
- 34 gallons of paint overpacked
- Removal of PCB contaminated soil & transformer beads complete as is filling in & grading the excavated area

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 wheelers	2	Polaris	10	
COC Sys Mgr	1	12	Peristaltic Pump	1	Capella	8	
HazMat Tech	1	12	Generator	1	HomeLite	8	
HazMat Tech	1	12					

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C ✓ LEVEL D ✓

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO ✓

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES ✓ NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Decon Procedures discussed
PPE to be worn in work areas only

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ✓ NO

TYPE OF TEST IF B METHOD Electrical Resistance - OHMMETER RESULTS - determined Latex Paint

TYPE OF TEST IF F METHOD NWES Field Screening Test - ABSORBANT PAD RESULTS - determined Oil Base Paint

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO ✓

TYPE OF TEST SPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO ✓

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

Need a copy machine ASAP
Ed Erickson helped clarify gray areas for us
Reviewed pug estimate
Reviewed + discussed progress report
LIST of HPL Additional Editions attached

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7/13/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

COPIER SIGNATURE Ron Broyles DATE 7/13/94 SUPERVISOR Michael F. Malin DATE 14 July 94

PREPARATORY INSPECTION CHECKLIST

Contract No.: DACA-85-93-C-0048 Date 7/13/94
Project HTW Removal of NE Cypc - St. Louis Specs. Section: 0292C

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Dispose of Paints, Trichloroethylene, Calcium Hypochlorite, Citric Acid, Sodium Hydroxide, Isopropyl Alcohol, Solvents, and Paint Related Materials

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Bryles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>COE</u>	<u>NWES</u>
3.	<u>Mitch H. Findahl</u>	<u>Site Supt.</u>	<u>NWES</u>
4.			
5.			
6.			
7.			
8.			
9.			
10.			

B. TRANSMITTALS INVOLVED:

	<u>NUMBER & ITEM</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>	<u>ACTION CODE</u>
1.	<u>01560-1.2 Equipment and Material</u>	<u>GOV.</u>	<u>Approved</u>
2.	<u>Decontamination</u>		
3.	<u>01570-1.3 A/C Vessel + Vehicle</u>	<u>GOV.</u>	<u>Approved</u>
4.	<u>Operations</u>		
5.	<u>02420-1.5 HTW Operations Plan</u>	<u>GOV</u>	<u>Approved</u>
6.	<u>CIH Site Inspection</u>		
7.	<u>02430-1.3 Off Site Transport</u>	<u>GOV</u>	<u>Approved</u>
8.	<u>02940-1.3 Off Site Disposal</u>	<u>GOV</u>	<u>Approved</u>
9.			
10.			

C. Have all items involved been approved? Yes No

D. What items have not been approved?

	<u>ITEM</u>	<u>STATUS</u>
1.	<u>NA</u>	
2.		
3.		

E. MATERIALS AND EQUIPMENT:

- 1. All are materials and equipment on hand? Yes No
- 2. Are all materials and equipment in compliance? Yes No
- 3. Is work to be "built upon" in compliance? Yes No

F. LIST CONSTRUCTION TOLERANCE AND WORKMANSHIP STANDARDS:

- 1. Cans to be placed into plastic bags - Bags sealed & properly labeled
- 2. Bags lab packed with vermiculite in Type - 17M 55 gal. drum
- 3. Proper labels to be affixed to drums
- 4. _____
- 5. _____
- 6. See attached manufacturer's recommendations

G. INSPECTIONS/TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

	<u>INSPECTIONS/TESTS</u>	<u>FREQUENCY</u>
1.	<u>#B - Electrical Resistance Test</u>	<u>Once</u>
2.	<u>IF - NIOS Field Screening Test Method</u>	<u>Once</u>
3.	_____	_____
4.	_____	_____
5.	_____	_____

I. CHECKLIST:

- 1. Review of all contract requirements completed? Yes No
- 2. Proposed construction procedure in compliance? Yes No
- 3. Ability or training of work crew is acceptable? Yes No
- 4. Testing laboratory and equipment approved? Yes No
- 5. Forms for test reports approved? Yes No
- 6. Job Hazard Analysis discussed and accepted? Yes No
- 7. DD1566/Insurance/Permits obtained? Yes No
- 8. Required referenced/publications available? Yes No
- 9. Manufacturer's safety precautions available (MSDS)? Yes No
- 10. Initial inspection date scheduled for: 7/15/74

11. Remarks: Corrective action for Items Marked "No."
- 1. _____
 - 2. _____
 - 3. _____
 - 4. _____
 - 5. _____

Ron Brooks
 QUALITY ASSURANCE REPRESENTATIVE

Church Heath
 QUALITY CONTROL REPRESENTATIVE

7/13/94

Preparation Inspection Minutes

- Defenable Feature of Work: Removal of Paints, Trichloroethane, Calcium Hypochlorite, Oxalic acid, Sodium Hydroxide, Isopropyl Alcohol Solvents, Paint Related Materials

attending: Ron Broyles - QAR - COE
Chuck Heath - CQC - NWES
Mitch Hafindahl - Site Supt - NWES

HazMat technicians will begin removing paint from the Paint and Dope Storage Building

Contract specs were discussed regarding placing cans into plastic bags, sealing of bags, labelling procedures, + lab-packing with vermiculite in a Type-17H 55 gallon drum. Drums also to be appropriately labeled.

Testing, types B (electrical resistance) and test F (NWES Field Screening Test Method) was thoroughly discussed. Frequency to be only once.

Job hazard analysis sheet was gone through thoroughly with some additional comments added.

INITIAL INSPECTION CHECKLIST

Contract No.: DACI 85-93-C-0048 Date 7/13/94

Project: HTW Removal AT NE Cape - St. Louis Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove and Dispose of Paints, Trichloroethane, Calcium Hypochlorite, Oxalic Acid, Sodium Hydroxide, Isopropyl Alcohol, Solvents, + Paint Related Materials

A. PERSONNEL PRESENT, INCLUDING WORK CREW:

	NAME	POSITION	COMPANY
1.	Ron Brayles	QAR	COE
2.	Chuck Heath	QAR Systems Mgr	NWES
3.	Mitch Herfindahl	Site Supt.	NWES
4.	Adam Naguin	Hazmat Tech	NWES
5.			
6.			
7.			
8.			
9.			
10.			

B. INDICATE EXACT LOCATION OF FEATURE/ITEM INSPECTED: Paint and Pipe Storage Bldg.

C. MATERIALS AND EQUIPMENT BEING USED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES [checked] NO

IF NOT, EXPLAIN:

D. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS: YES [checked] NO

IF NOT, EXPLAIN:

E. CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES [checked] NO

STATE AREAS WHERE IMPROVEMENT IS NEEDED:

F. REQUIRED INSPECTIONS AND TESTS ARE DEMONSTRATED AND IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

G. SAFETY PROCEDURES OF HAZARD ANALYSIS FOLLOWED. YES NO

IF NOT, EXPLAIN CORRECTIVE ACTION: _____

H. INSTRUCTION RECEIVED FROM GOVERNMENT REPRESENTATIVE (INCLUDE ANY DISCUSSION ON TESTING, CONTROL PROCEDURES, AND DEFINITIVE DESCRIPTION OF THE AGREED ON QUALITY OF WORKMANSHIP):

1. 2 tests to be administered:
2. # B - Electrical Resistance Test - one time
3. # F - NUIES Field Sampling Test Method - one time
4. _____
5. Paint cans to be packaged in drums and
6. labeled appropriately according to contract
7. requirements except that 55 gallon drums
8. are used for overpacking
9. _____
10. _____

Ron Broyles

QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath

QUALITY CONTROL REPRESENTATIVE

Daily Health and Safety Briefing
Summary Form

Date 07-13-94 Time 0730 Time 0745
Begin End

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, B. -
Broyles, R. - Herfindahl, M.

Work Conditions Paint consolidation/overpacking -
Empty Transformers & Switches
Presented by M.L. Herfindahl

Special Health and Safety Concerns Slips - Trips - Falls - Nails - Hanging objects - sharp objects
Decon Procedures - PPE to be worn in work areas
only -
Presented by M.L. Herfindahl

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

1) Ron Broyles
Michael A. Vaghi
Chuck Heath
Robert P. Ravari

Form Completed by M.L. Herfindahl - NWES
Date 07-13-94



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/13/94 Test Number: _____

Test Location: Paint + Dope Storage Bldg

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Testing being done on site in the Paint + Dope Storage Bldg.

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: Haz Mat Tech simply tested each can +

packed the can in appropriate drums (oil or latex)
Test Results (if available): Determined if paints were latex or oil base - (2 latex + 30 oil base containers)

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Chuck Heath

7/13/94

Initial Inspection Meeting Minutes

attending Ron Brylin - GAR - COE
Chuck Heath - COE - NWES
Adon Naquin - Hazmat Tech - NWES
Mitch Helfendahl - Site Supt - NWES

Feature - Remove and Dispose of
Paints, Trichloroethane, Calcium
Hypochlorite, Oxalic Acid, Sodium
Hydroxide, Isopropyl Alcohol, Solvents
+ Paint Related Materials

Discussion on the preparatory meeting
reviewed

Tests to be done by NWES reviewed,
those being a # B test on paints today (Electrical
Resistance test - administrative one) Also to be
performed by HazMat Tech, Adon Naquin, will
be a NWES field screening test, also
administrative one. Tests are Inspec. Compliance

GAR requested an MSDS book or
appropriate copy pages be left close to
where Haz Mat Tech is working. This has
been done.

Class D protection is used today
Hazard Analysis procedure discussed +
Complied with.
Decon area set up

Section 01010

Changes - additions / deletions
in HTWs Found

- 1.7.3 Heat & Electric Power Bldg - only $(1\frac{1}{2})$ 5 gal HTW containers instead of reported 3
- 1.7.6 General Supply Warehouse
Bldg III - (10) - 5-gal cans of bromochloromethane instead of reported 9
- 1.7.1 Airport Terminal Bldg - (8) helium gas cylinders instead of reported 7
- 1.7.6 Mess Hall Warehouse - (9) 1 qt. bottles of isopropyl instead of reported 7
- (26) 1 qt. cans of Capella Oil instead of reported 10
 (9) 1 gal. cans of Americoat instead of reported 6
 (2) 5-gallon. Cans of Multi Clean instead of reported 1
- 1.7.7 Water Supply Bldg - Found only 8 5-gal cans of Paint instead of reported 150 gallons

also found

LYE - 15 pints (not listed in specs)

Asphalt Primer - Two 5-gallon cans

All other HTW's + quantities
were found as listed in specs

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DATA 85-93-C-0048 PROJECT TITLE: HITW Removal at NE Cape - St. Lawrence Is., AK.

CQC REPORT NUMBER: #110 LOCATION AND TEAM: St. Lawrence Island - NE Cape - NLUFS

WEATHER CONDITIONS: TEMP LOW 45 CONTRACTOR: Northwest EnviroService, Inc.

TEMP HIGH: 59
WIND SPEED: 0-20 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Haz Mat Techs Pumped Transformers in Bldg. 110 (NORTH)		
	and in Bldg. 98		
	Haz Mat Tech worked in paint shop testing separating + packaging paint		
	3,100 pounds of crating materials were unloaded from Ryan Airplane		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up on Remove + Dispose of PCB liquids, containers/materials
Follow Up on Remove + Dispose of Contaminated Soil
Follow Up on Remove + Dispose of Paints + Other HITW'S

Instructions Given to the Contractor

Verbal Written

Label the drum located at the transformer site where contaminated soil was removed - site adjacent to white Alice Site

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

Transformers Pumped - Bldgs 110 North + 98 - Total of 139 Gallons Flow rate - 15 gal per hr.
Paint Tested, Separated + Packaged - 16 gallons

Manspower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt.	1	12	4 Wheelers	2	Polaris	10	
CQC Systems Mgr	1	12	Generator	1	HomeLite	8	
Haz Mat Tech	1	12	Peristaltic Pump	1		8	
Haz Mat Tech	1	12					

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C ✓ LEVEL D ✓
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO ✓
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO ✓
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES ✓ NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Half face respirators may be used by HazMat Techs pumping transformers due to the fact that peripheral vision is increased and hard hats will stay on the head better in the areas where so many head high obstacles are present - safety glasses a must

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ✓ NO

HAZ
CATS

TYPE OF TEST	METHOD	RESULTS
<u>PH - 3 of them</u>	<u>Lithius Paper</u>	<u>PH of 7, 7, 9 - water</u>
<u>Absorption Tests</u>	<u>Absorbent Pad</u>	<u>Retained the liquid to be soap + water</u>

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO ✓

TYPE OF TEST	EPA TEST METHOD	QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

A pinhole size leak was discovered in a recovery drum which transformer oil was being pumped into resulting in a minute amount of (1/2 pint) oil escaping. The leaked oil was contained by the enclosing dike + absorbent pads. The 55 gal. drum was then pumped out + double bagged, labeled + will be put into an 95 gal. overpack drum.

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Hewitt DATE 7/14/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE	DATE	SUPERVISOR	DATE
<u>Ron Broyles</u>	<u>7/14/94</u>	<u>Michael J. Malson</u>	<u>15 July 94</u>



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/14/94 Test Number: Paint Bldg. #2
Test Location: Paint + Dope Storage Bldg

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Field Test only

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: Paints are being separated as to being latex or oil base

Completed By (Signature): Church Heath



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/14/98 Test Number: Bldg 98
Test Location: Bldg. 98 - 55 gallon drum
HAZCAT TESTS

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Field Test only

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes NO
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): PH of 9 indicating a water based chemical with the odor of soap
If tests are analyzed off-site, which testing facilities: _____

Additional Comments: Absorbant test & PH test showed no POL or PCB

Completed By (Signature): Chuck Heath



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/14/94 Test Number: Field Test - Bldg 110
Test Location: Bldg. # 110 - HAZCAT TESTS

Sample Procedures Comply (Circle) YES NO If not specify
why: _____

Facilities Available (Circle) YES NO If not specify
why: Field Test only

Testing Eqpt. Available (Circle) YES NO If not specify
why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test
documentation prepared (Circle) YES NO If not specify
why: _____

Test Results (If available): PH Test - PH 7 for
both containers of water

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: One 5 gallon container
had about 4" of water in it
Another 5 gallon container had 4 gallons
of water in it
The third container to be tested was
empty

Completed By (Signature): Chuck Heath



Northwest EnviroService Inc.

Testing Procedure Verification Form

Date: 7/14/94 Test Number: Field T-T-Bldg 111
Test Location: Bldg 111 - 55 gal. drum LIA? CAT
TESTS

Sample Procedures Comply (Circle) YES NO If not specify
why: _____

Facilities Available (Circle) YES NO If not specify
why: Field Test only

Testing Eqpt. Available (Circle) YES NO If not specify
why: _____

Instrument Calibrations Current (Circle) Yes NO

Remarks _____

Recording forms, test identification control number, and test
documentation prepared (Circle) YES NO If not specify
why: _____

Test Results (If available): PH 7 - water (approximately
2 gallons)

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: The bung had been left
off the drum and approximately 2 gallons
of water had leaked into it from the
ceiling

Completed By (Signature): Chuck Heath

Daily Health and Safety Briefing
Summary Form

Date 07-14-94 Time Began 0730 Time Ended 0745

Meeting Location NWES - weatherport

Team Members Attending Heath, C. - Naguin, A. - Lavoie, A. - Broyles, R. -
ERICKSON, E. - Herfindahl, M.

Days Covered _____ Presented by M. Herfindahl
Continue pumping Transformers Bldg. 110-North - & Bldg 98
Continue overpacking paint.

Special Health and Safety Concerns _____ Presented by M. Herfindahl
SLIPS - TRIPS - Falls - NAILS - Asbestos - Hanging debris -
Level C while pumping Transformers & switches -
Level D while overpacking paint -

Team Members' Suggestions _____

Changes to Health and Safety Plan _____

Other Comments _____

Michael C. Naguin
~~Ed Heath~~
Robert Rame
Clint Heath

Form Controlled by M. Herfindahl
Date _____

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DAEA-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island

CQC REPORT NUMBER: # 11 LOCATION AND TEAM: St. Lawrence Island - NE Cape - NWES

WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro Service, Inc.

TEMP LOW: 40

TEMP HIGH: 50

WIND SPEED: 0-10 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location of the	Quantity	Subcontractor
	Contract Required Amounts following were lab packed		
	- 96 cans Septic cleaner	- 17 1 pound packs oxalic acid	
	- 2 half full 5 gal cans Multi Cleaner	- 130 1 pint cans Sodium Hydroxide	
	- 7 - 1 qt. bottles Isopropyl Alcohol		
	- 5 - 1 gal cans Americoat		The 10 - 5 gal cans of
	- 10 - 1 qt. cans Cupella Oil		Bromochloromethane were empty.

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

- Follow UP - Remove + Dispose of PCB Liquids, Containers Materials
- Monitored HazMat Techs pumping transformers + switches
- Follow UP - Remove + Dispose of Paints + other HTW's
- Inspected + monitored removal of several HTW's

Instructions Given to the Contractor

Verbal Written _____

Segregate and store excess amounts of HTW's not specified in the contract in conspicuous places in the buildings where they were found

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No _____

Cook walked off the job causing NWES personnel to devote time for various camp maintenance duties such as fueling stoves, generators, cooking, procuring water + general camp maintenance.

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

7 types of HTW's were lab packed
All transformers in Bldgs 98 and 110 have been pumped for a total of 140 gallons today
SWITCHES pumped - Bldg 110 - 10 gallons

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 wheelers	2	Pelaris	10	
CQC Systems Mgr.	1	12	Generator	1	Howelite	8	
Haz Mat. Tech	1	12	Peristaltic Pump	1		8	
Haz Mat. Tech	1	12					
		TOTAL HOURS	<u>48</u>				

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D
 WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO
 WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO
 WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Be specifically aware of dangers of Sodium Hydroxide

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO
 TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO
 TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO
 HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

- Supplies finally arrived enabling us to get inside switches for pumping tomorrow
- Have found several HTU's in greater quantity than contract calls for
- Cook - maintenance man quit - caused minor problems

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Church H. [Signature] DATE 7/15/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE Ron Boyles DATE 7/15/94 SUPERVISOR _____ DATE _____

Daily Health and Safety Briefing
Summary Form

Case Ø7-15-94 Time Ø73Ø Time Ø745
Began Ended

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - Naguin, A. - LAVOBE, R. -
Broyles, R. - Herfindahl, M.

Case Objectives Presented by: M. Herfindahl
Complete pumping Transformers in Bldg. #98 & 110 -
Initiate packaging of waste in Bldg # 107

Special Health and Safety Concerns Presented by: M. Herfindahl
SLIPS - TRIPS - Falls - NAILS - Hanging debris - Asbestos -
PPE Requirements - (Level C - For Transformers)

Team Member Suggestions

Changes to Health and Safety Plan
Cook left on first flight - Monitor all Food not sealed or in
cans - keep dishes & kitchen clean - Continue deconing
yourselves extremely well

Other Comments
Camp Kitchen extremely unsanitary -

Michael A. Naguin
Church Heath
Robert Kerne
Ron Broyles

Form Completed by M. Herfindahl
Ø7-15-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93-0-0048 PROJECT TITLE: HTW Removal at NE Cape, St. Lawrence Island, AK
 CQC REPORT NUMBER: #12 LOCATION AND TEAM: NE Cape - St. Lawrence Island, AK NUES
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro Service, Inc.
 TEMP LOW: 45
 TEMP HIGH: 58
 WIND SPEED: 0-15 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Site Supt. + myself surveyed drums in the Cargo Beach, Drum #1-1d. Twenty-five 55 gal drums were identified as to having oil in them. They were numbered, labeled as to the approximate quantity of oil in each, and listed and totalled. Approx. 700 gallons.		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Follow Up - On Remove + Dispose of PCB Liquids, Containers, Materials
- Monitored Haz Mat Techs pumping of electric switch ball housings in Bldg 110 North

Instructions Given to the Contractor

Verbal Written _____

Need a scale to begin weighing drums + crates before being filled - Contract requires this - Need ASAP

- QAR related to me that 2 transformers still had 1" and 1 1/2" of oil in them after being pumped - Located in Bldg #98
Another attempt should be made to pump some more oil from them

Has anything occurred which may lead to a delay or finding of fault?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

Switch Pumping - oil is increased in housings only -
pumped 15 housings in Bldg 110 for a total
of 137.5 gallons - Inspected all other
switches for oil - (negative)

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt.	1	12	4 Wheelers	1	Pelars	10	
CQC Systems Mgr	1	12	Generator	1	Homeht	8	
Haz Mat Tech	1	12	Peristaltic Pump	1		8	
Haz Mat Tech	1	12					

TOTAL HOURS 98

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Boat decontamination - stress completed decontamination before coming into camp area.

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST	METHOD	RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST	EPA TEST METHOD	QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO NA

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

- Much needed supplies arrived last evening making work progress faster
- Switches on tundra north of Blag 98 are dry or water filled
- All switches have been pumped - Transformers at air terminal will be pumped tomorrow

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER

Chuck Hunt DATE 7/16/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

OPER SIGNATURE

Ron Boyles

DATE

7/18/94

SUPERVISOR

DATE

Daily Health and Safety Briefing
Summary Form

DATE 07-16-94 Time Request 0730 Time Granted 0745

Briefing Location NWES - weatherpost

Team Members Attending Heath C. - NAGUIN, A. - LAUSIE, R. -
Broyles R. - Herfindahl M. -

Days Covered _____ Presented by: M. F. Herfindahl

Pump switches in Bldg. #110 North & West.
Inventory of Pail's on cargo beach Rd.

Special Health and Safety Concerns _____ Presented by: M. F. Herfindahl

SLIPS - TRIPS - Falls - NAILS - Hanging objects - 4 wheeler Safety -
Emergency Notification Procedures -

Team Members Suggestions _____

Changes to Health and Safety Plan _____

Other Comments _____

Michael A. Naguin
Clara Hest
Roy Broyles
Robert P. Lanni

Form Completed by: M. F. Herfindahl
DATE: 07-16-94

7/17/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-43-C-0048 PROJECT TITLE: HTW Removal at NE CAPE - St. Lawrence Island, Alaska
 CQC REPORT NUMBER: HE13 LOCATION AND TEAM: St. Lawrence Island - NE Cape NWE S
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc.
 TEMP LOW: 40
 TEMP HIGH: 59
 WIND SPEED: 0-10

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| - | Transformer Pumping | | |
| - | Removed NWE S Materials from airfield apron and moved to the staging area where crating will take place on the turntable | | |
| - | Helium cylinders emptied - 8 of them | | |
| - | Haz Mat Techs pumped residual oil from transformer bottoms in Bldg. 9S | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

- Follow Up - Remove + Dispose of PCB Liquids/Containers/Materials.
 - Observed Haz Mat Techs pumping fluids from transformers at Airfield Terminal
- Follow Up - Remove + Dispose of Paints etc.
 - Observed, helped with the release of helium from 8 cylinders

Instructions Given to the Contractor

Verbal Written _____

- Obtain a scale ASAP
- Obtain another fire for the trailer ASAP
- Pump out the last inch of oil in the first three transformers in Bldg. 9S

Has Anything Occurred Which May Lead to a Delay or Finding of Fault?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

- 3 Transformers jumped at Airport Terminal - 70 gals.
- All transformers + pumps have been pumped
- Emptied all the Helium out of 8 cylinders at Airport Terminal

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 Wheelers	2	Rollers	10	
CQC Systems Mgr	1	12	Generator	1	Household	6	
Haz Mat Tech	1	12	Peristaltic Pump	1		5	
Haz Mat Tech	1	12	Electric Saw	1	Sawzall	1	

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Special precautions to be taken when emptying helium gas cylinders - secure them, stand free of possible flying valve parts, stand upwind from released gas

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO *NA*

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

Any OAR Comments concerning the daily reports should be noted in writing on the returned daily report to the CQC

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER *Chuck Heurt* DATE *7/17/94*

GOVERNMENT QUALITY ASSURANCE COMMENTS

OAR SIGNATURE

Ron Brooks

DATE

7/18/94

SUPERVISOR

DATE

Daily Health and Safety Briefing
Summary Form

Date 07-17-94 Time 0730 Time 0745
Begin End

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - NAQUEN, A. - LAVOIE, R. -
Broyles, R. - Herfindahl, M. -

Jobs Objectives

Presented by M.L. Herfindahl

Pump Airport Transformers & move Lumber off the Ramp of the
Runway - Inspect & drain Helium bottles (8 EA)

Special Health and Safety Concerns

Presented by M.L. Herfindahl

SLIPS - TRIPS - Falls - Nails - Asbestos - 4-wireless safety -
High pres. Helium Tanks - Hanging debris - unstable Bldg's.
Level-D - (modified) with - Helium bottles -
Level-C - Transformer pumping.

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Michael G. Nagin
Robert P. Lavoie
Ron Broyles
Charles Herfindahl

Form Completed by M.L. Herfindahl
07-17-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-43-C-0048 PROJECT TITLE: HTW Removal At NE Cape, St. Lawrence Island
 CQC REPORT NUMBER: #14 LOCATION AND TEAM: NE Cape - St. Lawrence Island - NUWS
 WEATHER CONDITIONS: Northwest EnviroService, Inc.
 TEMP LOW: 40
 TEMP HIGH: 55
 WIND SPEED: 5-10 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Set up Gantry Crane in Staging Area		
	PCB Contaminated Soil drum moved to airfield staging area		
	Empty Helium cylinders moved to + stored in General Supply Warehouse		
	Paint in Paint + Dope Storage Bldg. tested, sorted + loose packed		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Inspected Storage of helium cylinders in General Supply warehouse - Inspected + labeled PCB soil drum
 Follow Up - Inspected removal of paints from General Supply Warehouse - Inspected + all pumped + transformers

Instructions Given to the Contractor

Verbal Written

I req. d these in writing ->

QAR requests - (1) Possible removing all of the platform which previous housed transformer on Power Line Corridor
 (2) Leave the 2 switches located on the tundra north of Bldg. 98, in place (3) Remove + ship the 6-55 gal. drums of soap products from the Mess Hall Warehouse (4) Over-pack all detergent products (5) Document + Map empty bromochloroethane cans as to location

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

All contracted HTWS removed from Paint Storage Bldg.
 Done with paints in General Supply Warehouse
 PCB Soil Drum transported to Airfield Staging Area

Manpower and Equipment

LABOR			EQUIPMENT				
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 wheelers	2	Polaris	10	
CQC Syst Mar	1	12	Generator	1	Howlite	4	
Haz Mat Tech	1	12	Lights	1		4	
Haz Mat Tech	1	12	Electrical Resis	1		3	
			Meter				
TOTAL HOURS		48					

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Site Safety officer will monitor the removal of debris in the freezers in the general supply warehouse - Level C worker, protection gear to be worn due to unknown contaminants in the area - Flashlights to be used

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST: Absorbent + Electrical Resistant Tests on unidentified Paints
METHOD: _____ RESULTS: _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST: _____ EPA TEST METHOD: _____ QUANTITY OF SAMPLES: _____

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

- Trailer tire's condition slows work progress
- All switches (electric) had oil in the ball housings only
- All pumped transformers + switches were numbered and coded with paint stick, m99p-d, + recorded

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Healy DATE 7/18/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

DAY SIGNATURE

DATE

SUPERVISOR

DATE

Ron Brown

7/19/94



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/18/94

Test Number: _____

Test Location: General Supply Warehouse

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Haz Cat Field Tests only

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): Differentiated between oil based + latex paints

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Charles Heath

Daily Health and Safety Briefing
Summary Form

Date 07-18-94 Time 0730 Time 0745
Begin End

Briefing Location NWES - Weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. -
Broyles, R. - Heifindahl, M. -

Job Objectives

Presented by: M.P. Heifindahl

move Helium Bottles from Airport to Gen. Supply Warehouse -
Label & move PCB Soil drum to Airport Staging Area - Decon PCB Equip.
Complete Packaging Paint in paint Storage Bldg.
Setup for Removal of Paint & Related material in Supply Coolers

Special Health and Safety Concerns

Presented by: M.P. Heifindahl

SLIPS - TRIPS - Falls - Nails - Hanging debris - Asbestos -
Lifting Procedures - 4 wheeler safety - Trailer / Load Safety -
PPE - Level C - in supply cooler - while clearing debris
and hauling paint out.

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naggin
Robert P. Lavin
Charles Heath

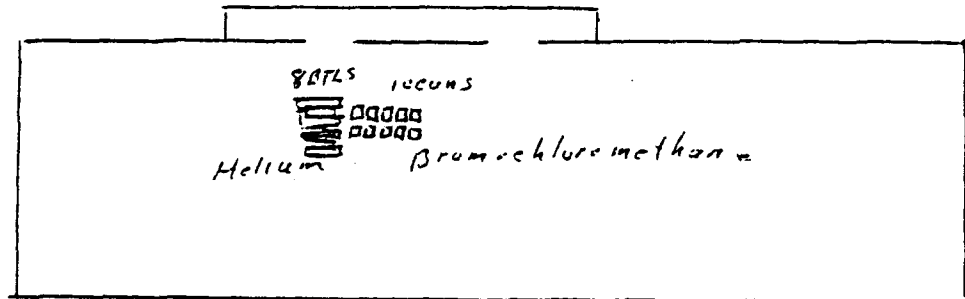
Form Completed by:

M.P. Heifindahl

Date 07-18-94

STORAGE OF 8 EMPTY
HELIUM BOTTLES AND 10
EMPTY BROMOCHLOROMETHANE
CANS

North



GENERAL SUPPLY
WAREHOUSE
BLDG 111

11/14/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 85-93-0-0048 PROJECT TITLE: HTW Removal At NE Cape, St. Lawrence Island,
 CQC REPORT NUMBER: #15 LOCATION AND TEAM: NE Cape - St. Lawrence Island
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc
 TEMP LOW: 40
 TEMP HIGH: 58
 WIND SPEED: 5-25 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|---|----------|---------------|
| - | Set up + prep for POL Removal at Cargo Beach Road Drum Field | | |
| - | Removal + Lab packing of paint from General Supply Warehouse + Water Supply Bldg. | | |
| - | Paint (8 cans @ gal each) removed from Water Storage Bldg | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Follow Up - Remove + Dispos of Paints - etc - observed + inspect + Haz Mat Techs on Paint removal + lab packing

Instructions Given to the Contractor

Verbal Written _____

- QAR and myself decided that the Calcium Hypochlorite will be removed as directed in the contract
- Another case (approx) 24 of Sodium Hydroxide cans were found in the General Supply Warehouse + need to be lab packed

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

- PCB Soil Complete Are there any weather related delays?

Yes _____ No

- All switches + transformers pumped, labeled, + cataloged
- Cargo Beach Road Drum Field ready for POL Removal
- Oxalic Acid, Sodium Hydroxide, Isopropyl Alcohol, Helium Gas Cylinders, Sodium Hydroxide, Bromochloromethane + Trichloroethane all taken care of

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt.	1	12	4 Wheelers	2	Polaris	12
CQC Syst/Mgr.	1	12				
Haz Mat Tech	1	12				
Haz Mat Tech	1	12				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D
 WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO
 WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO
 WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)
Lifting procedures emphasized
Footings in Cargo Drum Field emphasized
Awareness of asbestos coated pipes in Water Storage Bldg.

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO
 TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO
 TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO
 HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

No contents in trichloroethane containers - No Bromochloromethane in any of the 10 five gallon containers

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER *Church Heath* DATE *7/19/94*

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE DATE SUPERVISOR DATE

HTW. Removal
 N.E. CAPE
 ST. Lawrence Is. AK.

①

07-19-94

Ed : Ron

As of 07-19-94 the HTW Removal team has packaged and made ready for shipping the following list of items.

	gallons	Pounds	Drum SIZE.
Transformer oil - approx:	446 gallons	5,352 LBS.	12 EA. 85 DR
Switch oil - approx:	40 52 gallons	480 624 LBS.	1 EA. 55 TH.
PCB SOIL - approx:	—	550 LBS.	1 EA. 55 O.H.
Paint Related Material - approx:	209.50 gallons	2,933 LBS.	1 EA.
OXALIC Acid - approx:	—	17 LBS.	5. O.H.
Sodium Hydroxide - approx:	—	170 LBS.	1 EA 30 O.H.
Isopropyl Alcohol - approx:	4.0 gallons	528 LBS.	1 EA 10 O.H.
Multi Clean - approx:	5.0 gallons	60 LBS.	1 EA 30 O.H.
Capella oil - approx:	2.5 gallons	17.5 LBS.	1 EA.
American dimetcoat powder - approx:	—	75. LBS	1 EA. 10 O.H.
Sodium Hydroxide - approx:	—	—	—
Septic Cleaner approx:	—	96 LBS.	1 EA. 30 O.H.
Compressed Helium :		⊖ Complete ⊖	

The above material has been packaged according to site specific descriptions and Lump Sum schedule sheet.

The weights listed in the right hand column do not include the drum weight.

Ed & Ron

The items listed below are in addition to contract weights and Item qty's.

These items will need your's and Ron's attention and a determination ^{made} on how we can make adjustments, contractually and or Financially .

Ron would like a proposal From you ~~per~~ pertaining to these items as soon as possible .

	gallons ₂₇	Pounds
LATeX Paints	1.0 gal. - 1 EA. 5.0 gal. - 3 EA. 1.0 gal. - 30 EA.	266 LBS. 120 LBS. 420 LBS.
Enamel Paints	5.0 gal. - 3 EA	1160 LBS.
Septic Cleaner	Qts. x 12 EA.	12. LBS.
Capella oil	Qts x 15 EA.	15. LBS
Brake Fluid	16 gal.	144 LBS
R/c Model Fuel	1 pt.	1. LBS.
N/CHLOR. Solvents	1 gal. x 8 EA	80. LBS.
Soaps /detergents - PH < 12.5	8 ^{EA} 55 gal drums	3000 LBS.
glass Cleaner - Non CHLOR.	1 gal	10 LBS.
Duplicating Fluid - Non CHLOR.	4 gal.	35 LBS
Dust mop compound - CHLOR, liquid.		
Grease	4	4 LBS
Furniture Polish	15 qts.	22 LBS

Daily Health and Safety Briefing
Summary Form

Date 07-19-94 Time 0730 Time 0745
Begin 0730 End 0745

Briefing Location NWES - Weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAUSIE, R. -
BRYLES, R. - Herfindahl M.

Day's Objectives

Presented by: M. J. Hall

Finish consolidating permit - verify that all other
contractual waste in Bldg # 107 & 111 has been PKY.
Set up for ~~the~~ per consolidation in the field.

Safety Hazards and Safety Concerns

Presented by: M. J. Hall

Slips - Trips - Falls - nails - Footing - Hanging debris -
Sharp edges - Lifting procedures - 4 wheelers -

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naguin
Robert P. LaVie
Charles Heath

Form Completed by: M. J. Hall
07-19-94

7/20/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island, AK
 QC REPORT NUMBER: #16 LOCATION AND TEAM: NE Cape - St. Lawrence Island
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest Enviro Service, Inc
 TEMP LOW: 42
 TEMP HIGH: 50
 WIND SPEED: 0-10 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	Containments built at airfield staging areas for POL drums		
	PIP testing of the drums at Cargo Beach Road Drum Field		
	QAR + T removed side plate from all switches for inspection purposes - All were void of any oils or lubricants inside		
	POL removal in Cargo Beach Drum Field		

Quality Control Inspections Performed This Date (Indicate Preparatory, Initial, or Follow-Up Inspection)

Preparatory Inspection - Removal + Dispose of Petroleum Oils, Liquids
 Initial Inspection - Removal + Dispose of Petroleum Oils, Liquids

Instructions Given to the Contractor

Preparatory Inspection - Request that all NUCES workers attend the meeting. Vocal Written _____

Initial Inspection - again requested all personnel participate in meeting
 Chlorpack Calcium Hypochlorite - will be flown to Seattle

Has Anything Occurred Which May Lead to a Delay or Finding of Fault? Yes _____ No

Work Progress

Are there any Government Caused Delays? Yes _____ No

Are there any weather related delays? Yes _____ No

Haz Mat Techs pumping POLs from Cargo Beach Drum Field

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt	1	12	4 Wheelers	2	Polans	10
C. Co Sys/ Mar	1	12	Photo Lamination		Detector	4
Haz Mat Tech	1	12	Chain Saw	1	Handite	1
Haz Mat Tech	1	12				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Air Monitoring in Drum Field - Avoid spillage
Watch nails & for tripping hazards

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST PTD METHOD Tests with Photo Ionization Detector RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST PCB Test on cans of insulating oil was negative
(Ed Erickson took samples from NWES Lab)
Insulating oil will now be consolidated with other
POLs EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

Since no written comments have been noted on
the daily CQC report by the Gov. QAR we have
been led to believe that all operations have proceeded
as prescribed by the contract and in a safe manner.
NWES has asked for written comments on several occasions.

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Clare Huest DATE 7/20/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

DATE

SUPERVISOR

DATE

If the QAR has any concerns or questions regarding our operations, policies, and procedures, please comment in writing so as we have an opportunity to discuss any situations with you and make changes as needed



Northwest EnviroService Inc.

Testing Procedure Verification Form

Date: 7/20/94 Test Number: _____
Test Location: PID tests at Cargo Beach
Road Drum Field

Sample Procedures Comply (Circle) YES, NO If not specify
why: _____

Facilities Available (Circle) YES NO, If not specify
why: Field tests only

Testing Eqpt. Available (Circle) YES, NO If not specify
why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test
documentation prepared (Circle) YES NO If not specify
why: Field tests

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Chuck Heuts

PREPARATORY INSPECTION CHECKLIST

Contract No.: DACA-85-93-C-0048 Date 7/20/94
 Project: HTW Removal at NE Cape, St. Lawrence Is. Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Dispose of petroleum oils, liquids

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Broyles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>CQC Systems Mgr</u>	<u>NWES</u>
3.	<u>Mitch Hertindahl</u>	<u>Site Supt.</u>	<u>NWES</u>
4.	<u>Adam Naguin</u>	<u>Haz Mat Tech</u>	<u>NWES</u>
5.	<u>Robert Lavale</u>	<u>Haz Mat Tech</u>	
6.			
7.			
8.			
9.			
10.			

B. TRANSMITTALS INVOLVED:

	<u>NUMBER & ITEM</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>	<u>ACTION CODE</u>
1.	<u>C1560-1.2 Equipment + Material</u>	<u>C-cv.</u>	<u>Approved</u>
2.	<u>Decontamination</u>		
3.	<u>C1570-1.3 A/C Vessel and Vehicle</u>	<u>C-cv.</u>	<u>Approved</u>
4.	<u>Operations</u>		
5.	<u>C2920-1.5 HTW Operations Plan</u>	<u>C-cv.</u>	<u>Approved</u>
6.	<u>CIH Site Inspection</u>		
7.	<u>C2930-1.3 Off Site Transport</u>	<u>C-cv.</u>	<u>Approved</u>
8.	<u>C2940-1.3 Off Site Disposal</u>	<u>C-cv.</u>	<u>Approved</u>
9.			
10.			

C. Have all items involved been approved? Yes No

D. What items have not been approved?

	<u>ITEM</u>	<u>STATUS</u>
1.	<u>NA</u>	
2.		
3.		

E. MATERIALS AND EQUIPMENT:

- 1. All are materials and equipment on hand? Yes No
- 2. Are all materials and equipment in compliance? Yes No
- 3. Is work to be "built upon" in compliance? Yes No

F. LIST CONSTRUCTION TOLERANCE AND WORKMANSHIP STANDARDS:

- 1. Hand pumps to be used as are funnels
- 2. Type 1A2 55 gal drums to be used
- 3. Safety Standards - CFR 261+262 - Federal Guidelines 49CFR 178 + 40CFR 261
- 4. US Government + State of Alaska Standards as
- 5. directed by contract
- 6. See attached manufacturer's recommendations

G. INSPECTIONS/TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

	<u>INSPECTIONS/TESTS</u>	<u>FREQUENCY</u>
1.	<u>tests - Haz Cat Screening</u>	
2.	<u>Samples will be taken from each drum to</u>	
3.	<u>be shipped for Lab Analysis</u>	
4.		
5.	<u>PID Monitoring -</u>	

I. CHECKLIST:

- ✓ 1. Review of all contract requirements completed? Yes No
- 2. Proposed construction procedure in compliance? Yes No
- 3. Ability or training of work crew is acceptable? Yes No
- 4. Testing laboratory and equipment approved? Yes No
- 5. Forms for test reports approved? Yes No
- ✓ 6. Job Hazard Analysis discussed and accepted? Yes No
- 7. DD1566/Insurance/Permits obtained? Yes No
- 8. Required referenced/publications available? Yes No
- 9. Manufacturer's safety precautions available (MSDS)? Yes No
- 10. Initial inspection date scheduled for: 7/20/99
- 11. Remarks: Corrective action for Items Marked "No." _____
- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath
QUALITY CONTROL REPRESENTATIVE

7/24/94

Preparatory Meeting Minutes

regarding: Remove + Dispose of Petroleum
Oils/Liquids

Present: Ron Broyles - QAR - COE
Chuck Heath - COE - NWES
Mitch Herfindahl - Site Supt - NWES
Adam Naquin - HazMat Tech - NWES
Bob Lavoie - HazMat Tech - NWES

Meeting held - contract figures discussed as to removing POLS from Cargo Beach Road Drum Field which is located on the West side of the road.

Twenty five ³⁰ + drums have been marked, numbered, and approximate quantities of POLS noted on them.

They will be pumped and put into 55 gal. drums in preparation for shipment. Work tolerance, and methods of removal, conveyance, & storage were agreed upon.

Each drum ^(filled) will have a sample taken for lab analysis.

PID testing to be done on all drums to be consolidated.

INITIAL INSPECTION CHECKLIST

Contract No.: DACA 85-93-C-0048 Date 7/20/91

Project: HTW Removal At NE Cape-St. Lawrence Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Remove + Dispose of Petroleum Oils, Liquids

A. PERSONNEL PRESENT, INCLUDING WORK CREW:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Boyles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>C/C Systems Mgr.</u>	<u>NILES</u>
3.	<u>Mitch Herfindahl</u>	<u>Site Superintendent</u>	<u>NILES</u>
4.	<u>Adam Naguin</u>	<u>Haz Mat Tech</u>	<u>NILES</u>
5.	<u>Robert Lavale</u>	<u>Haz Mat Tech</u>	<u>NILES</u>
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. INDICATE EXACT LOCATION OF FEATURE/ITEM INSPECTED: Cargo Beach Road Drum Field

C. MATERIALS AND EQUIPMENT BEING USED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

D. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS: YES NO

IF NOT, EXPLAIN: _____

E. CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

STATE AREAS WHERE IMPROVEMENT IS NEEDED: _____

F. REQUIRED INSPECTIONS AND TESTS ARE DEMONSTRATED AND IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

G. SAFETY PROCEDURES OF HAZARD ANALYSIS FOLLOWED. YES NO

IF NOT, EXPLAIN CORRECTIVE ACTION: _____

H. INSTRUCTION RECEIVED FROM GOVERNMENT REPRESENTATIVE (INCLUDE ANY DISCUSSION ON TESTING, CONTROL PROCEDURES, AND DEFINITIVE DESCRIPTION OF THE AGREED ON QUALITY OF WORKMANSHIP):

1. Questions regarding decon. procedures
2. " " Haz Cutting
3. " " separate containers for
4. removed oil
5. Samples to be taken for lab analysis on
6. every drum filled
- 7.
8. Keep absorbents handy
9. Make sure Haz Mat Techs know the hazards of PCLs
- 10.

QUALITY ASSURANCE REPRESENTATIVE

Chuck Heath
QUALITY CONTROL REPRESENTATIVE

7/20/94

Initial Inspection Minutes

regarding: Remove + Dispose of
Petroleum Oils, Liquids

Attending: Ron Broyles - QAR - CCE
Chuck Heath - PQC - NUES
Mitch Herfindahl - Site Supt - NUES
Adam Naguin - Haz Mat Tech - NUES
Bob Lavois - Haz Mat Tech - NUES

Haz Mat Techs setting up auto-pumping POTS from drums in the Cargo Road Drum Field. Decom area set up - absorbants, MSDS sheet, fire extinguisher, first aid kit, drums, pumps, funnels, and work tabs are on site.

Samples for lab analysis will be taken from each filled drum. Haz Cat screening will be done again. Air monitoring will be done frequently.

Daily Health and Safety Briefing
Summary Form

Date 07-20-94 Time Began 0730 Time Ended 0745

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. -
Broyles, R. - Herfindahl, M.

Days Covered Presented by: M. J. Hill

Consolidate POL'S on CAR40 Beach RD. (East side).
Label all drums Ready for shipping.

Special Health and Safety Concerns Presented by: M. J. Hill

Slips - Trips - Falls - nails - 4 wheelers safety - Lifting procedures
NO SPILLS

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naguin
Robert P. Lavie
Christ Heath

Form Completed by: M. J. Hill
07-21-94

NWES

7/21/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DAEA-95-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island, AK
 COC REPORT NUMBER: #17 LOCATION AND TEAM: NE Cape - St. Lawrence Island
 WEATHER CONDITIONS: Northwest Enviro Service, T.Mc.
 TEMP LOW: 45
 TEMP HIGH: 55
 WIND SPEED: 5-11 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
	<u>Labelled PCB Drums</u>		
	<u>Pumped 104 Gallons of Pol from Cargo Beach Road Drum Field</u>		
	<u>Four and one half hours spent loading Montgomery Watson</u>		
	<u>Supplies and Gear on the HERC</u>		
	<u>Sample for lab taken from 12 drums of transformer oil + 1 drum of switch oil</u>		

Quality Control Inspections Performed This Date (Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up on Removal of Disposing Petroleum Oils Liquids -
Observed Haz Mat Tech pumping from drums in
Cargo Beach Drum Field

Instructions Given to the Contractor

Document the fact that the Montgomery Watson
Rental pickup was damaged during their demobilization,
not after NWES took over the truck after Mont. Wat
departure. Pictures were taken to verify this

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Spent 4 1/2 hrs. demobilizing for Montgomery Watson

Work Progress

Are there any Government Caused Delays? Yes No

Are there any weather related delays? Yes No

104 gallons of POL's pumped from Cargo
Beach Drum Field

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
<u>Site Supt.</u>	<u>1</u>	<u>12</u>	<u>4 wheelers</u>	<u>2</u>	<u>Plans</u>	<u>12</u>
<u>COC Systems Mgr.</u>	<u>1</u>	<u>12</u>				
<u>Haz Mat Tech</u>	<u>1</u>	<u>12</u>				
<u>Haz Mat Tech</u>	<u>1</u>	<u>12</u>				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C _____ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Awareness of work activities around Gantry Crane

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST Air Monitoring METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO _____

TYPE OF TEST PCBS EPA TEST METHOD _____ QUANTITY OF SAMPLES 40 milliliters
Samples to be sent to Seattle

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO _____

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO _____

REMARKS

4.5 hours devoted for Montgomery Watson Demobilization

Rental Truck damaged (Tailgate & bumper) during Montgomery Watson Demobilization

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heath DATE 7/21/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE _____ DATE _____ SUPERVISOR _____ DATE _____



Northwest EnviroService Inc.

Testing Procedure Verification Form

Date: 7/21/96 Test Number: _____

Test Location: Samples (40ml) taken from each Drum of Transformer + Switch Oil

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Samples to be sent to Seattle

Testing Eqpt. Available (Circle) YES NO If not specify why: Equipment for obtaining samples only

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: NWES Lab in Seattle

Additional Comments: _____

Completed By (Signature): Clayton Heath



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/21

Test Number: _____

Test Location: Cargo Beach Road Drum Field

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Field Tests - P11D

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: Tests recorded by Haz Mat Techs on Site

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: P11D tests are taken on each drum identified for removal in the Cargo Beach Road Drum Field

Completed By (Signature): Chris [Signature]

Daily Health and Safety Briefing
Summary Form

Case 07-20-94 Time Began 0730 Time Ended 0745

Briefing Location NWES - weather port

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. -
BOYLES, R. - Herfindahl, M.

Days Covered _____ Presented by M. J. Herfindahl

Transfer P.O.L.'S From decayed drums in Cargo Beach Rd.
drum field into NEW 17 E (1A2) 55 GAL. drums

Special Health and Safety Concerns _____ Presented by M. J. Herfindahl

SLIPS - TRIPS - falls - Lifting procedures - 4 wheel safety -
Trailer Load Safety - Footing / Loose Rocks -

Team Members Suggestions _____

Changes to Health and Safety Plan _____

Due to the cool weather & light breeze Level-D-Modified will
be used - constant monitoring and drum testing will be adhered too.

Other Comments _____

Robert P. Lavin
Chris H. Herfindahl
Ron Boyles
Michael A. Naquin

Form Completed by M. J. Herfindahl
07-20-94

NWES

7/22

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DA-A-85-93-C-00018 PROJECT TITLE: HTW Removal At NE Cape - St. Lawrence Island
 CQC REPORT NUMBER: #18 LOCATION AND TEAM: NE Cape - St. Lawrence Island NWES
 WEATHER CONDITIONS: Northwest CONTRACTOR: Environ Service, Inc
 TEMP LOW: 42
 TEMP HIGH: 46
 WIND SPEED: 20-50 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| - | 900 Gallons of water haul-1 + put into storage bladder as the creek near camp dried up | | |
| - | Set up staging area for drums at the airfield | | |
| - | Repacked paint + transferred packed drums to airfield | | |
| - | Sampled 3 transformer drums in Bldg 98 + 2 Airport Drums | | |
- Samples will go to NWES in Seattle

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up on Removal of Paints etc - observed Haz Mat Techs overpacking enamel paints

Instructions Given to the Contractor

Verbal Written

- GAR requested that the platform which housed 1 transformer tainted with transformer oil, be removed. Site Superintendent will comply with the request.
- GAR requests that 1 gal cans of insulating oil be shipped in overpacked in contrast to consolidation.

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

No drums, which are needed for PLU removal arrived also no scale Chlor-detect Test Kit, or trailer tires arrived causing delays in several work sites

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

110 gallons of enamel paint ~~to~~ overpacked

7-55 gal drums of paint + 3 85 gal drum of paint transported to staging area

Manpower and Equipment

LABOR

CLASSIFICATION

NUMBER

HOURS

EQUIPMENT

EQUIPMENT

NUMBER

TYPE

HOURS

USED

Sr Supt	1	12	4 wheelers	2	10	
CQC Systems Man	1	12	Generator	1	5	
Haz Mat Tech	1	12	Electric pump	1	5	
Haz Mat Tech	1	12				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Faint packing to be done in a well ventilated area
Visibility problems today - Driving rain at sample - slow driving

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

Samples to be sent to NWES in Seattle 40 Hills

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

Non arrival of tires, drums, Chlor-D-Test Kit, and scale is slowing progress

Sattelite phone was broken in 2 places when NWES took over it yesterday (casing things)

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER

Charles Smith DATE 7/22/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

DATE

SUPERVISOR

DATE



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/22 Test Number: _____

Test Location: Bldg 98 + Airport terminal -
Drums of Transformer Oil

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Samples will be sent to NESC in Seattle

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes NO
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Chris H...

Daily Health and Safety Briefing
Summary Form

Date 07-22-94 Time 0730 Time 0745
Begin

Briefing Location WES - weather Port

Team Members Attending Heath, C. - NAQUIN, A. - LAVOISE, R.
Broyles, R. - Herfindahl, M.

Days Objectives Presented by: M.F. [Signature]

~~overpack~~ overpack enamel paint - haul drums
That are ready to ship to Airport, MAKE SURE EVERYTHING IS SECURE
check watering hole

Special Health and Safety Concerns Presented by: M.F. [Signature]

SLIPS - Trips - Falls - nails - BLOWING debris (light winds) - Asbestos
4 wheeler safety -

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

1) Chuck Hoots
Alan [Signature]
Robert P Lewis

Form Completed by: M.F. [Signature]
Date: 07-22-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape, St. Lawrence Is
 CQC REPORT NUMBER: # 19 LOCATION AND TEAM: NE Cape - St. Lawrence Island, AK. NWIS

WEATHER CONDITIONS: Northwest Enviro Service, Inc.
 CONTRACTOR:
 TEMP LOW: 40
 TEMP HIGH: 45
 WIND SPEED: 10-40 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| - | Removed entire Transformer Platform on Power Line Corridor as requested by QAR. The stained particles, as directed in the HTW Plan, had previously been removed. | | |
| - | CQC & QAR relocated water pumping system and pumped another 800 gallons today | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

- Follow Up - Removal of Paints, etc. Helped Haz Mat Tech transport Drums to Airfield Staging Area
- Follow Up - Removal of PCB Liquids - Helped transport 10 55 gal drums of transformer oil to Airfield Staging Area

Instructions Given to the Contractor

Verbal - Written

- Keep gasoline drums locked as there seems to be some pilfering by natives in the area
 - Add to your total of HTWS Packed - 14 one pound cans of LYE, 26 additional cans of Sodium Hydroxide (TOTAL 156 CANS) 5 additional qts of Isopropyl Alcohol (Total 12 1/2)
- Has Anything Occurred Which May Lead to a Delay or Finding of Fault? Yes No

Work Progress

Are there any Government Caused Delays? Yes No

Are there any weather related delays? Yes No

- (10) All Transformer Oil Overpacked & in Staging Area at Airfield Drums of Oxalic Acid, Lye, Sodium Hydroxide, Isopropyl Alcohol all transported to & stored at Airfield Staging Area

Machinery and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt	1	12	4 wheelers	2	Pulvers	11
CQC Systems Mgr.	1	12	Generator	1		2
Haz Mat Tech	1	12	Electric Pump	1		1
Haz Mat Tech	1	12				
TOTAL HOURS		<u>48</u>				

Daily Health and Safety Briefing
Summary Form

Date 07-23-94 Time 0730 Time 0745
Began Ended

Briefing Location NWES weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAUGIE, R. - Herfindahl, M.
Broyles, R.

Days Comments Presented by: M. Herfindahl
move drums that are ready to ship to Airport staging area -
overpack all drums of PCB liquids. - Transport all other drums
that are ready to ship to airport. - Collect all contaminated PPE and
put in bldg #110 west. - Remove the entire Transformer platform at the
TOP OF Hill.

Special Health and Safety Concerns Presented by: M. Herfindahl
Slips - Trips - Falls - nails - wind blown debris - Lifting Procedures -
steady Pace (NO Injuries) w/ Wheeler Safety -

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Handwritten signatures:
Chuck Kent
Robert Davis
Michael A. Vagan

Form Completed by M. Herfindahl
07-23-94

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D ✓

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO ✓

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO ✓

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES ✓ NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

4 wheel safety in high winds
lifting procedures discussed

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO ✓

TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO ✓

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

One to two man hours a day are lost due
to pumping worn out tire Haz Mat Techs state
Need a new tire ASAP!

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chris Heath DATE 7/23/90

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE DATE SUPERVISOR DATE

Notes

7/24/9

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DAQ-85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence Island
 COC REPORT NUMBER: #20 LOCATION AND TEAM: NE Cape - St. Lawrence Island, Alaska
 WEATHER CONDITIONS: TEMP LOW 40 CONTRACTOR: Northwest Enviro Service, Inc.
TEMP HIGH 48
WIND SPEED 0-15

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|---|----------|---------------|
| - | Labeled overpacks at Airport Staging Area | | |
| - | Overpacked all but the Calcium Hypochlorite (3-3096) | | |
| - | Removed 3 transformers - 98T10, 98T11, + 98T12 from BLDG 98 | | |
| - | Transported the 3 transformers to Airfield Staging Area | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Preparatory + Initial on: Field Testing + Categorization of HTWs (These inspections have been going on for weeks but no written documentation has ever reached the COE) Follow Up - Rem/Dis PCB Contain

Instructions Given to the Contractor

Verbal Written

Have the QAR and the Assistant Project Manager, Ed Erickson, converse by phone to discuss the collection, disposal of additional wastes discovered not addressed in the contract.

Has Anything Occurred Which May Lead to a Delay or Finding of Fault?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

- Overpacked 3-thirty gallon drums of Calcium Hypochlorite
- Removed the 3 transformers from Bldg. 98, transported them to Airfield Staging Area + temporarily crated them

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt.	1	12	4 wheelers	2	Polars	11
CQC Systems Mgr	1	12	Generator	1	Homelite	1
Haz Mat Tech	1	12	Saws	ALL		1
Haz Mat Tech	1	12	Pickup	1		8
			Elec Winch	1	Homelite	1
			Chain Hoist	1		4
TOTAL HOURS		48				

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

- Safety comments on the safe handling of Calcium Hypochlorite
- Brief safety P.M. meeting concerning safety around the gantry crane
- Level D PPE stressed

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO
TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO
TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

The 3 Transformers are temporarily crated only, as they and the crates need to be weighed whenever the scale arrives

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chuck Heatt DATE 7/24/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE DATE SUPERVISOR DATE

PREPARATORY INSPECTION CHECKLIST

Contract No.: DACA 85-93-C-0048 Date 7/28/94
 Project: HTW Removal at NE Cape-St. Louis Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Field Testing + Categorization of HTWs

A. PERSONNEL PRESENT:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Broyles</u>	<u>QAR</u>	<u>COE</u>
2.	<u>Chuck Heath</u>	<u>CCC Systems Mgr.</u>	<u>NWES</u>
3.	<u>Mitch Hertindahl</u>	<u>Site Supt.</u>	<u>NWES</u>
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. TRANSMITTALS INVOLVED:

	<u>NUMBER & ITEM</u>	<u>CONTRACTOR OR GOVERNMENT APPROVAL</u>	<u>ACTION CODE</u>
1.	<u>01560-1.2 Equipment + Material</u>	<u>- Gov</u>	<u>Approved</u>
2.	<u>Decontamination</u>	_____	_____
3.	<u>01570-1.3 A/C Vessel + Vehicle</u>	<u>- Gov</u>	<u>Approved</u>
4.	<u>Operations</u>	_____	_____
5.	<u>02920-1.5 HTW Operations</u>	<u>- Gov</u>	<u>Approved</u>
6.	<u>Plan-CEH Site Inspection</u>	<u>- Gov</u>	<u>Approved</u>
7.	<u>02930-1.3 Off Site Inspection</u>	_____	_____
8.	<u>Transport</u>	_____	_____
9.	<u>02940-1.3 Off Site Disposal</u>	<u>- Gov</u>	<u>Approved</u>
10.	_____	_____	_____

C. Have all items involved been approved? Yes No _____

D. What items have not been approved?

	<u>ITEM</u>	<u>STATUS</u>
1.	_____	_____
2.	_____	_____
3.	_____	_____

E. MATERIALS AND EQUIPMENT:

- 1. All are materials and equipment on hand? Yes No
- 2. Are all materials and equipment in compliance? Yes No
- 3. Is work to be "built upon" in compliance? Yes No

F. LIST CONSTRUCTION TOLERANCE AND WORKMANSHIP STANDARDS:

- 1. Categorize and test all HTWs found on Site
- 2. Some to be field tested while others will
- 3. be tested in lab after samples have been
- 4. taken - All HTWs will be identified
- 5. - Follows Gov. + state of Alaska Standards
- 6. See attached manufacturer's recommendations

G. INSPECTIONS/TESTS REQUIRED IN ACCORDANCE WITH CONTRACT REQUIREMENTS:

INSPECTIONS/TESTS	FREQUENCY
1. <u>Inspections + Tests will be performed</u>	
2. <u>as called for by contract and as needed as</u>	
3. <u>QAR, CQC, and/or Site Supt. sees a need for</u>	
4. _____	
5. _____	

I. CHECKLIST:

- 1. Review of all contract requirements completed? Yes No
- 2. Proposed construction procedure in compliance? Yes No
- 3. Ability or training of work crew is acceptable? Yes No
- 4. Testing laboratory and equipment approved? Yes No
- 5. Forms for test reports approved? Yes No
- 6. Job Hazard Analysis discussed and accepted? Yes No
- 7. DD1566/Insurance/Permits obtained? Yes No
- 8. Required referenced/publications available? Yes No
- 9. Manufacturer's safety precautions available (MSDS)? Yes No
- 10. Initial inspection date scheduled for: 7/24/92

11. Remarks: Corrective action for Items Marked "No."
 1. This preparatory phase has been going on
 2. for many weeks ~~and has been~~ No occu-
 3. mentation for this phase has been verified
 4. or brought forth at this time.
 5. _____

 QUALITY ASSURANCE REPRESENTATIVE

Clued Heath

 QUALITY CONTROL REPRESENTATIVE

INITIAL INSPECTION CHECKLIST

Contract No.: DACA 85-93-C-0048

Date 7/28/95

Project: HITW Removal At NE Cup Specs. Section: 02920

MAJOR DEFINABLE SEGMENT OF WORK: Field Testing + Categorization of HITW's

A. PERSONNEL PRESENT, INCLUDING WORK CREW:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	<u>Ron Boyles</u>	<u>QAR</u>	<u>CUF</u>
2.	<u>Chuck Heath</u>	<u>CQC</u>	<u>NWES</u>
3.	<u>Mitch Herfindahl</u>	<u>Site Supt</u>	<u>NWES</u>
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____

B. INDICATE EXACT LOCATION OF FEATURE/ITEM INSPECTED: Many HITW's throughout the site have been tested and are still being tested

C. MATERIALS AND EQUIPMENT BEING USED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

D. PROCEDURES AND/OR WORK METHODS WITNESSED ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS: YES NO

IF NOT, EXPLAIN: _____

E. CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS ARE IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

STATE AREAS WHERE IMPROVEMENT IS NEEDED: _____

F. REQUIRED INSPECTIONS AND TESTS ARE DEMONSTRATED AND IN STRICT COMPLIANCE WITH CONTRACT REQUIREMENTS. YES NO

IF NOT, EXPLAIN: _____

G. SAFETY PROCEDURES OF HAZARD ANALYSIS FOLLOWED. YES NO

IF NOT, EXPLAIN CORRECTIVE ACTION: _____

H. INSTRUCTION RECEIVED FROM GOVERNMENT REPRESENTATIVE (INCLUDE ANY DISCUSSION ON TESTING, CONTROL PROCEDURES, AND DEFINITIVE DESCRIPTION OF THE AGREED ON QUALITY OF WORKMANSHIP):

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

QUALITY ASSURANCE REPRESENTATIVE

Clayton Heath
QUALITY CONTROL REPRESENTATIVE

7/24/94

Preparatory + Initial Inspection Minutes

regarding: Field Testing and
Categorization of HITWs

present: Ron Broyles - QAR - COE
Mitch Herfindahl - Site Supt - NWES
Chuck Heath - COE - NWES

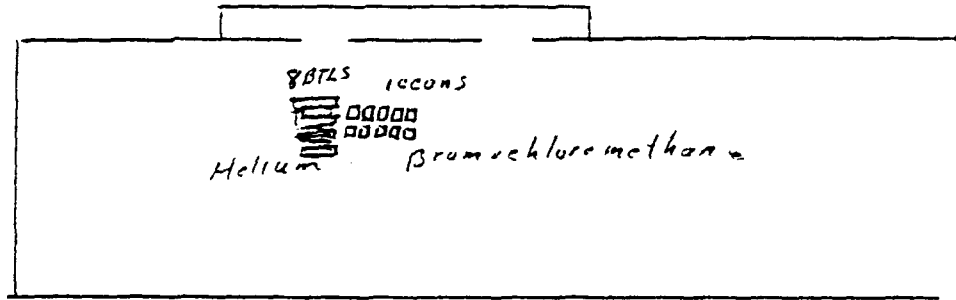
Work involving these inspection phases has been conducted for weeks, as much sampling and testing has been done by qualified NWES personnel.

Field testing plus samples have frequently been taken for lab analysis in Anchorage and/or Seattle. All data of sampling and field tests since I have been here have been recorded.

For some reason or another, the COE has not received a notice of the preparatory or initial inspection phases so these are being submitted now. C. Heath

STORAGE OF 8 EMPTY
HELIUM BOTTLES AND 10
EMPTY BROMOCHLOROMETHANE
CANS

North



GENERAL SUPPLY
WAREHOUSE
BLDG 111

Daily Health and Safety Briefing
Summary Form

Case Ø7-24-94 Time Ø73Ø Time Ø745
Began Ended

Starting Location NWES - weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. - Broyles, R. -
Herfindahl, m.

Jobs Completed Presented by: M.F. Herfindahl

Transport Transformers to Airport staging Area

Put Calcium Hypochlorite into drum and Transport to Airport staging Area.

Special Health and Safety Concerns Presented by: M.F. Herfindahl

Dust + Fumes which may come of Calcium Hypochlorite.

Transformer weight - (Lifting Procedures) & wheelbar safety -

Slips - Trips - Falls - nails - Asbestos - (Level D - Transformer packaging)

(Level C - Calcium Hypochlorite overpacking + cleanup) -

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Robert P. Harris
Michael A. Magri
Clued Heath

Form Completed by: M.F. Herfindahl
Case: Ø7-24-94

11/25/85

7/25/79

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape-St. Lawrence I

CQC REPORT NUMBER: #21 LOCATION AND TEAM: NE Cape-St. Lawrence Island

WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc

TEMP LOW: 44
TEMP HIGH: 50
WIND SPEED: 0-5mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sec) | Activity & Location | Quantity | Subcontractor |
|--------------------------|--|----------|---------------|
| - | Airfield Staging Area improved | | |
| - | Transformers from Bldg. 110 North & West (110T7, 110T8, 110T9 and 110T4) removed and transferred to Airport Staging Area where they are temporarily crated pending being weighed | | |
| - | Fuel for camp procured from Airfield Staging Area | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Follow Up on: Remove & Dispose PCB Materials
- Hazmat techs removed transformers from BLDG. 110 N & transported them to Airfield Staging Area Follow up - testing samples
switch oil taken

Instructions Given to the Contractor

Vocal

Written

Make phone contact with Ed Erickson and try to track down our needed supplies

Has Anything Occurred Which May Lead to a Delay or Finding of Fact? Yes _____ No

Work Progress

Are there any Government Caused Delays? Yes _____ No
Are there any weather related delays? Yes _____ No

Transformers #5 110T7, 110T8, 110T9 and 110T4 moved to Airfield Staging Area & Temporarily crated pending being weighed

Manpower and Equipment

LABOR		EQUIPMENT					
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4wheeler	2	Polars		11
CQC Systems Mgr.	1	12	power wrench	1	Homelite		2
Hazmat Tech	1	12	Sawz all	1			1
Hazmat Tech	1	12	Pickup	1	Fuel		12
			Trailer	1			11
			Chain Hoist	1			3
TOTAL HOURS		<u>48</u>					

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C _____ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Gantry Crane Safety
Decon Procedures regarding rubber gloves - don't
take them from the worksite unless they
are thoroughly washed or decontam.

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES _____ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

Sample taken by site supt. for PCB test
Northern Testing in Anchorage to do testing

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chris Heath DATE 7/25/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE _____ DATE _____ SUPERVISOR _____ DATE _____



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/25/94

Test Number NEC 101

Test Location: Bldg 110 West

Sample Procedures Comply (Circle) YES NO
why: _____

If not specify

Facilities Available (Circle) YES NO
why: _____

If not specify.

Sample to be flown to NWEES in Anchorage and from there to Northern Testing

Testing Eqpt. Available (Circle) YES NO
why: _____

If not specify

Samples shipped to Anchorage

Instrument Calibrations Current (Circle) Yes No

Remarks _____

Recording forms, test identification control number, and test

documentation prepared (Circle) YES NO

If not specify

why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: _____

Northern Testing

Additional Comments: _____

Completed By (Signature): Charles Heath

Daily Health and Safety Briefing
Summary Form

Date 07-25-94 Time Depart _____ Time Arrive _____

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. - Herfindahl, M. -
Broyles, R.

Job Objectives Presented by: M.L.H. Heath
Continue Loading, Transporting and crating Transformers to Airport.
Start Bldg. # 110 west

Special Health and Safety Concerns Presented by: M.L.H. Heath
SLIPS - TRIPS - Falls - Hanging debris - Heavy objects - Asbestos - Nails
Lifting procedures - 4 wheeler safety - winching procedures - gantry crane
Procedures

P.P.E. Level D - For Transformer packaging with Rubber gloves

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naquin
Robert P. Lavine
Charles Heath

Form Completed by: M.L.H. Heath
Date: 07-25-94

DRAI

Contract Bid Schedule Estimate

Item No.	Contract Quantity	Actual Quantity	Difference
1. Mob & Demob	Lump Sum	Lump Sum	N/A
2a. PCB Liquids	800	516	-284.0
2b. PCB Containers/Materials	10000	10000	0.0
2c. PCB Soil	Lump Sum	Lump Sum	N/A
3. POLs	1000	700	-300.0
4a. 1,1,1 Trichloroethane	20	0	-20.0
4b. Paint & PRM	200	418.5	218.5
4c. Calcium Hypochlorite	400	300	-100.0
4d. Bromochloromethane	50	0	-50.0
4e. Oxalic Acid	100	17	-83.0
4f. Sodium Hydroxide	200	170	-30.0
4g. Isopropyl alcohol	5	3.125	-1.9
4h. Helium Gas Cylinders	Lump Sum	Lump Sum + 1/7LS	N/A

As of
7/24/94

20

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA85-93-C-0048 PROJECT TITLE: HTW Removal at NE Cape-St. Law.
 COC REPORT NUMBER: # 22 LOCATION AND TEAM: NE Cape - St. Lawrence Island, AK.
 WEATHER CONDITIONS: _____ CONTRACTOR: Northwest EnviroService, Inc.
 TEMP LOW: 42
 TEMP HIGH: 58
 WIND SPEED: 0-5 mph

Work Activities Performed This Date

- | Reference (NAS/Tech Sect) | Activity & Location | Quantity | Subcontractor |
|---------------------------|--|----------|---------------|
| - | Transported & crated transformers - 8 moved to Airfield Staging Area - One (DT16) moved from Directional Finder to storage in Bldg 110 North | | |
| - | Relocated complete water supply system as creek previously used went dry | | |
| - | Mechanic duty on 4 wheelers & fixed 3 flat tires | | |

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Follow Up on Removing PCB Contaminated Materials
 - Assisted in removing, transporting, & crating of transformers - #s AT13, AT14, AT15, 110T1, 110T2, 110T3, 110T5 and 110T6

Instructions Given to the Contractor

Verbal Written _____

You need the scale for weighing all HTWs - The lack of it will necessitate another day's work as all HTWs packed & crated will have to be handled again

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

All transformers except DT16 are in the Airfield Staging Area awaiting weighing. # DT16 had no product in it as it was found. Laying down & completely empty (stored in Bldg 110 N. awaiting a decision as to shipping)

Manpower and Equipment

LABOR CLASSIFICATION	NUMBER	HOURS	EQUIPMENT			
			EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt	1	12	4 wheelers	2		11
CQC Syst Mar	1	12	Sawzall	1		1
Hazmat Tech	1	12	Chapsaw	1		1
Hazmat Tech	1	12	Power Winch	1		4
			Trailer	1		11
			Chain Hoist	1		1
			Generator	2		4
			Electric Pump			2
TOTAL HOURS		48				

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D ✓

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO ✓

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO ✓

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES ✓ NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

4 Wheeler Safety stressed
Lifting Procedures stressed

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO ✓

TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO ✓

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO NA

REMARKS

Still need much needed equipment which
has not arrived such as SCALE, REPLACEMENT TRAILER TIRE, VERMICULITE, 16 DRUMS
(8-55's & 8-85's)

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chad Heath DATE 7/26/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

DATE

SUPERVISOR

DATE

Daily Health and Safety Briefing
Summary Form

Case 07-26-94 Time Begin Time End

Working Location NWES - Weatherport

Team Members Attending _____

Jobs Completed Presented by: M.L. Hall

Complete ~~ing~~ pulling Transformers out of Bldg # 110.
Haul To Airport staging Area and package for shipping.

Safety Hazards and Safety Concerns Presented by: M.L. Hall

Slips - Trips - Falls - nails - Hanging debris - Asbestos - Heavy Lifting -
Gantry crane (inspect each morning / noon)

Team Members' Suggestions _____

Changes to Health and Safety Plan _____

Other Comments _____

Robert P. Kavon
Michael A. Nagas
Cheryl Hobbs

Form Completed by M.L. Hall
Case 07-26-94

NORTHEAST CAPE PROFILES

WPQ	Wastestream	Sample Requirements
AK4863	POL's (FP>200F) (Low P.I.D.)	500 ml per drum*
AK4864	POL's (FP 140-200F) (P.I.D. 200-300)	500 ml per drum*
AK4865	POL's (FP100-139F) (P.I.D. 300-400)	500 ml per drum*
AK4866	POL's (FP70-99F) (High P.I.D.)	500 ml per drum*
AK4867	Calcium Hypochlorite	Completed
AK4868	Isopropyl Alcohol	500 ml
AK4869	Insulating Oil (<50 PPM)	20 ml per drum**
AK4870	PCB Oil (50-500 PPM)	20 ml per drum**
AK4871	PCB Oil (>500 PPM)	20 ml per drum**
AK4872	Transformers & Switches (<500 PPM) Carcasses	None
AK4873	Transformers & Switches (>500 PPM) Carcasses	None

* Only one sample per each WPQ needed for Seattle. Sample from each drum needed for field QC testing.

** PCB control Sheet needed to show sources for oil in each drum (complete with switch and transformer I.D. numbers). Small oil sample (20 ml) needed for combined Anchorage and Seattle requirements from each drum. Sample will be split in Anchorage.

The early field testing can be with the PID but eventually I would like to do a F.P. test on each drum. Such a test will need to be in a sheltered area near the barracks. Collecting a sample from each drum for on-site work will help to prepare for this testing. We need to send only one sample for each WPQ. Save teflon caps for those 4. *J*



NORTHERN TESTING LABORATORIES, INC.

3330 INDUSTRIAL AVENUE
2505 FAIRBANKS STREET

FAIRBANKS, ALASKA 99701
ANCHORAGE, ALASKA 99503

(907) 458-3116 • FAX 458-3125
(907) 277-8378 • FAX 274-9645

Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 07/19/94
Date Arrived: 07/15/94
Date Sampled: 07/15/94
Time Sampled:
Collected By: LW

Attn: Larry Wilkinson

Our Lab #: A132070
Location/Project: NE Cape
Your Sample ID: 940705-S
Sample Matrix: Oil
Comments:

- * Definitions *
- B = Below Regulatory Min.
- H = Above Regulatory Max.
- E = Estimated Value
- M = Matrix Interference
- D = Lost to Dilution
- MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	MDL	Date Prepared	Date Analyzed
A132070	EPA 8080	Aroclor 1016	mg/kg	<MDL	0.77		07/15/94
		Aroclor 1221	mg/kg	<MDL	0.77		
		Aroclor 1232	mg/kg	<MDL	0.77		
		Aroclor 1242	mg/kg	<MDL	0.77		
		Aroclor 1248	mg/kg	<MDL	0.77		
		Aroclor 1254	mg/kg	<MDL	0.38		
		Aroclor 1260	mg/kg	<MDL	0.38		
		Surrogate Recovery	%	101			

*This is the
newest result
on the remaining oil*


Reported By: Anthony J. Lange
Chemistry Supervisor

NWES

112 117

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER

PROJECT TITLE

DACA 85-93-C-0048

HTW Removal at NE Cape - St. Law. Is.

CQC REPORT NUMBER

LOCATION AND TEAM

#23

NE Cape - St. Lawrence Island, AK.

WEATHER CONDITIONS

CONTRACTOR

TEMP LOW 45

Northwest EnviroService, Inc.

TEMP HIGH 64

WIND SPEED 0-15mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)

Activity & Location

Quantity

Subcontractor

Paint shop & Bldg 111 had paints & various HTWS removed - Alkaline Powder, Inhibitors, Sodium Silicate or Aluminum Chloride, Stop Leak, furniture Polish Sodium Hydroxide, Dust mop treatment Compound, Duplicating Fluid, grease, brake fluid & Paints Containers were bagged & labeled when emptied

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Removal of Paints etc. - The last of the paints & HTWS were either sorted and/or put into drums today

Follow Up - Removal of PCB Materials - Transformers crated

Instructions Given to the Contractor

Verbal Written

- Remove the two 5 gallon containers of Anti Freeze & Water from the second story of BLDG 110
- Remove & crate the bell housings from the switches

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

Completed Transformer Packing or Crating (except OT16), transported 8 drums to Airfield Staging Area packed/consolidated HTWS in drums (see work performed today - above)

Manpower and Equipment

LABOR

EQUIPMENT

CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt.	1	12	4 Wheeler	2			11
CQC Syst. Mgr	1	12	Pickup	1			11
Haz Mat Tech	1	12	Trailer	1			11
Haz Mat Tech	1	12	Chain Hoist	1			2
			Sawz ALL	1			1
			Generator	1			1
TOTAL HOURS		48					

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C ___ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

*4 Wheeler Safety
Nails - awareness not only as to stepping
on them but flat tire problems have
been frequent*

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ___ NO

TYPE OF TEST	METHOD	RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES ___ NO

TYPE OF TEST	EPA TEST METHOD	QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES ___ NO ___

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES ___ NO *NA*

REMARKS

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER *Chuck Heath* DATE *7/27/94*

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE _____ DATE _____ SUPERVISOR _____ DATE _____

Daily Health and Safety Briefing
Summary Form

Date 07-27-94 Time 0730 Time 0745
Begin End

Briefing Location NWES - weather Port

Team Members Attending HEATH, C. - NAQUIN, A. - LAVOIE, R. - Herfindahl, M. -
Broyles, R.

Days Concerns Presented by: M.F. Herfindahl

Bldg. # 107 - Package Remainder of waste & Turn in INVENTORY -

Bldg. # 107 - Bring all detergents & put with other detergents at bldg. # 107

create the remainder of Transformers at Air port -

gather drums for P.O.B. Consolidation - Pull 2⁵⁰ gal Buckets out of 110

Social Health and Safety Concerns Presented by: M.F. Herfindahl

Slips - Trips - Falls - nails - loose boards - Asbestos.

4 wheeler Safety - Trailer Safety -

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naquin
Robert Lavoie
Chuck Heath

Form Completed by: M.F. Herfindahl
Date: 07-27-94

DRUMS AT AIRFIELD
STAGING AREA AS OF 7/27/94

DRUMS

12	-	PCBs	-	85	-	Liquid
3	-	PRM	-	85	-	Liquid
4	-	PRM	-	55	-	Liquid
3	-	LTX	-	55	-	Liquid
1	-	ALC	-	10	-	Liquid
3	-	Cal Hyp	-	30	-	Solid
1	-	Sod Hyd	-	30	-	Solid
1	-	Sod Hyd	-	5	-	Solid
1	-	Oxalic Ac	-	5	-	Solid
4	-	POI	-	55	-	Liquid
1	-	PCB	-	55	-	Solid
1	-	Paint	-	55	-	Liquid
2	-	Septic Cln.	-	30	-	Solid
1	-	Multi Clean	-	30	-	Liquid
1	-	Americat	-	10	-	Solid
1	-	Latex	-	55	-	Liquid
1	-	Insul. Oil	-	30	-	Liquid
1	-	Capella Oil	-	30	-	Liquid

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER

PROJECT TITLE

DACA-85-93-C-0048

HTW Removal at NE Cape - St. Law. Isl.

CQC REPORT NUMBER

LOCATION AND TEAM

#24

NE Cape - St. Lawrence Island, AK.

WEATHER CONDITIONS

CONTRACTOR

TEMP LOW 40

Northwest EnviroService, Inc.

TEMP HIGH 44

WIND SPEED 10-25 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)

Activity & Location

Quantity

Subcontractor

- Weighed all transformers + their crates
- Consolidated non-chlor HTWs
- Changed tires on the trailer
- Took all bolts off Bell Housings on the electric switches for removal of housings tomorrow

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Removal of PCB Materials - Helped with + Observed Weighing of all transformers + crates

Instructions Given to the Contractor

Verbal Written

Weigh Transformers ASAP so HazMat Techs can continue crating and GAR can do his paperwork

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

- All transformers weighed and crated
- Switch Bell Housings disassembled

Manpower and Equipment

LABOR

EQUIPMENT

CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 Wheeler			10	
CQC Systems Mgr.	1	12	Trailer			10	
HazMat Tech	1	12	Pickup			11	
HazMat Tech	1	12	Scale			6	
			Chain Hoist			6	
		TOTAL HOURS					48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C ___ LEVEL D
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED
TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS
AND EQUIPMENT AS REQUIRED? YES NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)
Gantry Crane Safety

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ___ NO
TYPE OF TEST METHOD RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES ___ NO
TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES ___ NO ___
HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES ___ NO NA

REMARKS

Scale arrived letting us proceed with
crating Tran's former
Tires for trailer arrived eliminating an hour's
pumping time each day

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE
AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS

QUALITY CONTROL MANAGER Chuck Heath DATE 7/28/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE DATE SUPERVISOR DATE

CRATES & TRANSFORMERS
WEIGHED ON 1/28/94

Northeast Cape Crate Weights

Crate Number	Net Weight (lbs)	Gross Weight (lbs)	Net Weight (Kg)	Gross Weight (Kg)	Crate # (size)	Comments
110T1	547	687	249	312	5	
110T2	550	690	250	314	5	
110T3	533	675	242	306	5	
110T4	871	1052	396	476	4	
110T5	859	1040	390	473	4	
110T6	826	1057	398	480	4	
110T7	1152	1388	524	631	2	
110T8	1308	1544	595	702	2	
110T9	1300	1536	591	698	2	
98T10	1156	1392	525	633	2	
98T11	1148	1384	522	629	2	
98T12	1130	1366	514	621	2	
AT13	389	629	177	240	5	
AT14	390	530	177	241	5	
AT15	390	530	177	241	5	
DT16	560	700	255	273	5	
110S1-8	0	0	0	0		

Totals 13159 15998 5981 7272

2 crates - 236 lbs.

4 crates - 181 lbs.

5 crates - 140 lbs.

Daily Health and Safety Briefing
Summary Form

Date 07-28-94 Time 0730 Time 0745
Begin

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - Haquin, A. - Lavoie, R. - Herfindahl, M. -
Boyles

Days Observed Presented by: M.F. Herfindahl
Overpack Detergents at Bldg # 107 -
Consolidate P.O.L.'s on cargo beach Rd.
Haul Transformer in Bldg. 110 North (DT16) to Airport & create.

Special Health and Safety Concerns Presented by: M.F. Herfindahl
Slips - Trips - Falls - nails - debris - Heavy objects - Blowing debris -
& wheelbar safety

Team Members Suggestions

Changes to Health and Safety Plan

Other Comments

Robert Lavoie
Michael A. Haquin
Chris [Signature]
Ron Boyles

Form Completed by M.F. Herfindahl
07-28-94

7/28/94

Northeast Cape Drum Contents

Drum Number	Contents of Drum
NEC01	110T1, 110T2
NEC02	110T2, 110T3
NEC03	110T4
NEC04	110T5
NEC05	110T6
NEC06	110T7
NEC07	110T8
NEC08	110T9
NEC09	98T10, 98T11
NEC10	98T10, 98T12
NEC11	AT13, AT14
NEC12	AT14, AT15
NEC13	110S1, 110S2, 110S3, 110S4, 110S5, 110S6
NEC14	
NEC15	
NEC16	
NEC17	
NEC18	
NEC19	
NEC20	
NEC21	
NEC22	
NEC23	
NEC24	
NEC25	
NEC26	
NEC27	
NEC28	
NEC29	
NEC30	
NEC31	
NEC32	
NEC33	
NEC34	
NEC35	
NEC36	
NEC37	

Transformer
+
Switch Numbers

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER

PROJECT TITLE

DACA 85-93-C-0048

HTW Removal at NE Cape-St.Law.Is

CQC REPORT NUMBER

LOCATION AND TEAM

25

NE Cape - St. Lawrence Island

WEATHER CONDITIONS

CONTRACTOR

TEMP LOW 40

Northwest EnviroService, Inc.

TEMP HIGH 44

WIND SPEED 0-5 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)

Activity & Location

Quantity

Subcontractor

- Weighed all drums & drum contents which are stored at the Airfield Staging Area
- POL removal at the Cargo Beach Road Drum Field 350 total gallons today
- Surveyed work sites with Larry Wilkinson

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Removal of POLs - Observed Hazmat Techs pumping from drums in the Cargo Beach Drum Field

Instructions Given to the Contractor

Verbal Written

- Take samples tomorrow morning of various HTWs not addressed in the contract - Larry Wilkinson will take the samples back to Anchorage with him tomorrow morning

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

- All drums in staging area weighed
- 350 Gallons of POLs removed from Cargo Beach Road Drum Field

Manpower and Equipment

LABOR

EQUIPMENT

CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt.	1	12	4 Wheeler	2		11	
CQC Systems Mgr.	1	12	Trailer	1		11	
HazMat Tech	1	12	Scale	1		4	
HazMat Tech	1	12	Chain Hoist	1		4	
			Generator	1		2	
			Electric Pump	1		2	
TOTAL HOURS		48					

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C ___ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

- Lifting procedures
- Safety concerns in the scale area at the Airfield Staging Area

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES ___ NO

TYPE OF TEST	METHOD	RESULTS

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES ___ NO

TYPE OF TEST	EPA TEST METHOD	QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES ___ NO ___

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES ___ NO = NA

REMARKS

- Found, located 4 to 6 cases of unknown deteriorated containers, suspected of possibly being Sodium Hydroxide - Samples will be taken tomorrow + taken to Anchorage with Larry Wilkinson
- Scale Verification Form dated 6/6/94 given to QAR

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chris Heath DATE 7/29/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

DATE

SUPERVISOR

DATE

STATE OF ALASKA

DEPARTMENT OF COMMERCE AND ECONOMIC DEVELOPMENT
DIVISION OF MEASUREMENT STANDARDS

PAGE _____ OF _____

SCALE REPORT

PLEASE NOTIFY WEIGHTS & MEASURES
AFTER REPAIRS FOR REINSPECTION

INITIAL
REINSPECTION

ANCHORAGE 343-7750 JUNEAU 789-9780
STERLING 262-3853 FAIRBANKS 451-2862

FIRM Northwest Engineering Services OWNER/MANAGER _____ DATE OF INSPECTION 6-5-91
ADDRESS 1213 E. 1st Ave TELEPHONE _____ TIME IN / TIME OUT _____
CITY/TOWN Anchorage 99501 INSPECTOR [Signature] DATE OF LAST INSPECTION _____

MANUFACTURER	MODEL	SERIAL NUMBER	CAPACITY DIVISION	SCALE TYPE	VIOLATIONS (See Key)	ACTION			REMARKS
						A	R	RN	
1. <u>NISI</u>	<u>M220</u>	<u>16401/3-144</u>		<u>Q</u>		<u>X</u>			
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									

TOTALS APP _____ MEDIUM APP _____ LARGE APP 1 FISH APP _____
 SMALL REJ _____ REJ _____ REJ 0 REJ _____

- VIOLATION KEY
- A - WEIGHTS AND MEASURES NOT NOTIFIED FOR TEST
 - B - UNSUITABLE FOR THE PURPOSE IN WHICH IT IS USED
 - C - INCORRECT OR MISSING NOMENCLATURE PLATE
 - D - CAPACITY AND/OR DIVISION VALUE NOT MARKED, CLASS CODE
 - E - OPERATIONAL CONTROLS NOT MARKED
 - F - CUSTOMER VIEW OBSTRUCTED
 - G - INDICATIONS INCORRECT OR UNREADABLE
 - H - DOES NOT REPEAT INDICATIONS
 - I - PRICE COMPUTATIONS INCORRECT
 - J - RECORDED REPRESENTATIONS UNREADABLE/INCORRECT
 - K - TARE MECHANISM INCORRECT
 - L - IMPROPER OPERATION/MAINTENANCE
 - M - OUT OF TOLERANCE
 - N - DEVICE OUT OF LEVEL
 - O - ZERO OUT OF BALANCE
 - P - IMPROPER SUPPORT
 - Q - NEEDS PROTECTION FROM ENVIRONMENT
 - R - DAMPING SYSTEM NEEDS SERVICE
 - S - MOTION DETECTION INCORRECT
 - T - AUTO/ZERO INCORRECT
 - U - EXCEEDS SPECIFIED CAPACITY
 - V - OTHER
- ACTION KEY
- A - APPROVED FOR USE
 - R - REJECTED NOT TO BE USED
 - R/N - REPAIR NOTICE-STILL IN SERVICE

REMARKS/INSTRUCTIONS READ AND COMPLY WITH INSTRUCTIONS ON TAG OR SEAL
VIOLATIONS MUST BE CORRECTED BY _____ OR DEVICE(S) MAY BE REMOVED FROM SERVICE.

I ACKNOWLEDGE RECEIPT OF THIS REPORT AND
I UNDERSTAND THE VIOLATIONS OR INFORMATION
OR INSTRUCTIONS DESCRIBED HEREIN.

SIGNATURE OF FIRM [Signature] VIOLATION NOTICE - NUMBER _____

Daily Health and Safety Briefing
Summary Form

Date 07-29-94 Time 0730 Time 0745
Begin End

Working Location NWES - weatherport

Team Members Attending Heath, C. - Lavoie, R. - Naguin, A. - Herfindahl, M. -
Broyles, R. -

Key Objectives

Presented by: M. Herfindahl

Consolidate P.O.L.'s on Cargo Beach Rd.
Weigh drums of waste in staging Area.
Band crates for shipping.

Special Health and Safety Concerns

Presented by: M. Herfindahl

Slips - Trips - Falls - nails - debris - 4 wheelers - Footing -
Level D - with air monitoring

Team Members' Suggestions

Changes to Health and Safety Plan

Other Comments

Robert P. Lavin
Michael A. Naguin
Church Heath

Form Completed by: M. Herfindahl
Date: 07-29-94

1/30/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER

PROJECT TITLE

DACA 85-93-C-0048

HTW Removal at NE Cape - St. Law. Is

CQC REPORT NUMBER

LOCATION AND TEAM

26

NE Cape - St. Lawrence Island, AK

WEATHER CONDITIONS

CONTRACTOR

TEMP LOW 42

Northwest EnviroService, Inc

TEMP HIGH 48

WIND SPEED 0-20 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)

Activity & Location

Quantity

Subcontractor

- Lab packed & over packed paints, solvents, soap -
- Took samples (11) with Larry W. Wilkerson
- Pumped 150 gals. of POL from Cargo Rool Drum Field
- Removed, crated & transported 12 bell housings from switches from Bidge 110 N + West

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Field Testing & Categorization of HTWS - Helped Larry Wilkerson take samples (11 of them - see attached sheet)

Follow Up - Removal of Paints etc. - Lab packed & Overpacked HTWS

Instructions Given to the Contractor

Verbal

Written

Delete the Multi Clean Label on the 55 gal drum & relabel it as paint

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes

No

Work Progress

Are there any Government Caused Delays?

Yes

No

Are there any weather related delays?

Yes

No

- 150 gal. POLs pumped for a total of 900 gal
- 12 Bell Housings from switches transported to staging area
- 1-30, 1-55, 5-85 gal drums labor overpacked, transported to staging area & weighed

Manpower and Equipment

LABOR

CLASSIFICATION

NUMBER

HOURS

EQUIPMENT

EQUIPMENT

NUMBER

TYPE

HOURS

USED

Site Supt	1	12	4 wheeler	2		11	
CQC Syst. Mgr	1	12	Trailer	1		11	
Haz Mat Tech	1	12	Generator	1		1	
Haz Mat Tech	1	12	Sawzall	1		1	
			Scale	1		1	
			Chain Hoist	1		2	
			Chain Saw	1		1	
			TOTAL HOURS			48	

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A ___ LEVEL B ___ LEVEL C ___ LEVEL D
WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES ___ NO
WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES ___ NO
WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO ___

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Road Hazards - slow driving advised on road to Airfield as it's become very rough

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO ___

TYPE OF TEST: PID METHOD: Photo Ionization Kit RESULTS: 17.2

test taken on a drum west of Cargo Beach Drum Field

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO ___

TYPE OF TEST: Larry Wilkinson EPA TEST METHOD: QUANTITY OF SAMPLES

took 11 samples, 1 pint each, to NWES in Anchorage today. Samples include toilet soap Aluminum chloride soap Inhibitor Paint An unknown from

Alkaline Conditioner Oxalic Acid Bldg 11 Ethylene Glycol Septic Cleaner Non Chlorinated Solvent (site supt took 3) Propylene Glycol Sodium Hydroxide

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO ___

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO ___

REMARKS

There has been no recent contamination in the Cargo Beach Road Drum Field - All contamination has been done prior to NWES' HTW Cleanup - The floor contamination from a transformer was done long prior to NWES' visit. This stain is located in Bldg 11b-West

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS,

QUALITY CONTROL MANAGER: Charles Heath DATE: 7/30/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE _____ DATE _____ SUPERVISOR _____ DATE _____



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 7/30/94 Test Number: Tests 102-112
Test Location: Samples 102-112 taken from Bldg 111, Airport Staging Area, & Mess Hall Warehouse

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Samples taken to NUES in Anchorage by Larry Wilkinson

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) YES NO
Remarks: _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): _____

If tests are analyzed off-site, which testing facilities: NUES

Additional Comments: See attached List of Samples taken

Completed By (Signature): Chris Holt



Northwest EnviroService Inc.

Testing Procedure Verification Form

Date: 7/30/90 Test Number: _____

Test Location: Capro Beach Road Dream Field

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: _____

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes No
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: PID Test with Photo
Ionization Detector

Test Results (If available): 17.2

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Christ H. [Signature]

Daily Health and Safety Briefing
Summary Form

Date 02-30-94 Time 0730 Time 0745

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - NAQUIN, A. - LAVOIE, R. - Herfindahl, M. -
Wilkinson, L. - Broyles, R.

Start Objectives Consolidate P.O.C.'s (Bob & Adam)

3 pull samples from misc. Products - consolidate Paint Reducers
overpack Remaining Paints - LABEL TRANSFORMER CRATES.
Weigh Switch Bells -

Special Health and Safety Concerns Slips - TRIPS - Falls - nails - debris - 4 wheeler Safety -
No short timer syndrome!

Team Member Suggestions

Changes to Health and Safety Plan

Other Comments

Michael A. Naquin
Larry McInnis
Charles Heist

Form Completed by M. Herfindahl
02-30-94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER

PROJECT TITLE

DACA 85-93-C-0048

HTW Removal at NE Cape - St. Lawrence

CQC REPORT NUMBER

LOCATION AND TEAM

#27

NE Cape - St. Lawrence Island, AK.

WEATHER CONDITIONS

CONTRACTOR

TEMP LOW 40

Northwest EnviroService, Inc.

TEMP HIGH 44

WIND SPEED 30-60 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)

Activity & Location

Quantity

Subcontractor

Banded all transformer crates
 Collect - 6 all debris from work sites
 Lab packed debris in an 85 gal drum + a 55 of
 Overpacked Paint - 85 gal

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspection)

Follow Up - Removal of Paints etc - Lab packed +
 Overpacked paints
 Follow Up - Removal of PCB Materials - Banded
 transformer crates

Instructions Given to the Contractor

Verbal _____ Written _____

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes No

Severe winds - couldn't take samples from PCB
 drums in the prescribed way nor
 weigh large crates of bell housings
 from electric switches

Work Progress Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

Winds of up to 60 mph inhibited some planned
 work today - due to safety factors, all work in
 the Airfield staging Area was kept at
 a minimum

Manpower and Equipment

LABOR

CLASSIFICATION

NUMBER

HOURS

EQUIPMENT

EQUIPMENT

NUMBER

TYPE

HOURS

USED

Site Supt	1	12	Pickup	1		12	
CQC Systems Mgr	1	12	Wheelbarrows	2		10	
Haz Mat Tech	1	12	Bander	1		3	
Haz Mat Tech	1	12					

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C _____ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

Severe Winds 30-60 mph caused HazMat Techs to alter work plan - no samples could be taken. The Gantry Crane was not used, nor was the scale to weigh the bell housing crates

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES _____ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES _____ NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

HAVE O.A. AND O.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES _____ NO _____

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES _____ NO

REMARKS

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chris Henth DATE 7/31/94

GOVERNMENT QUALITY ASSURANCE COMMENTS

QAR SIGNATURE

DATE

SUPERVISOR

DATE

Daily Health and Safety Briefing
Summary Form

Date 07-31-94 Time 0730 Time 0800
Begin End

Briefing Location NWES - weatherport

Team Members Attending Heath, C. - MAWIA, A. - LAVOIE, R. - Herfindahl, M. -

Days Objectives

Prepared by: M.L. Herfindahl

Finish crating 6^{EA} switches - Finish overpacking
10^{EA} 5gal. paint - Package PPE & debris -
Transport all waste to Airport - Label weigh &
Sample remaining waste - Band crates

Special Health and Safety Concerns

Prepared by: M.L. Herfindahl

SLIPS - TRIPS - Falls - Nails -
Highwinds - Low visibility - Blowing debris
- USE TRUCK with TRAILER -

Team Members Suggestions

Changes to Health and Safety Plan

Work Cautiously & ~~safely~~ SAFELY

Other Comments

Robert P. Lavigne
Michael A. Mawia
Clare Heath

Form Completed by: M.L. Herfindahl

Date 07-31-94

8/1/94

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 83-95-C-0048 PROJECT TITLE: HTW Removal at NE Cape - St. Lawrence I.

CQC REPORT NUMBER: #28 LOCATION AND TEAM: NE Cape - St. Lawrence Island, AK.

WEATHER CONDITIONS CONTRACTOR: Northwest EnviroService, Inc.
TEMP LOW: 40
TEMP HIGH: 44
WIND SPEED: 20-70 mph

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
-	Labeling of drums in Airfield Staging Area		
-	POL Volume Calculations done on POL Drums (14)		
-	Chlor D Test tests done on composite samples (4) from POL drums in Airfield Staging Area		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up Inspections)

Follow Up - On Field Testing & Categorization of HTWs

Instructions Given to the Contractor

Verbal Written

Do as much work as possible but don't sacrifice HazMat's safety due to severe winds

Has Anything Occurred Which May Lead to a Delay or Finding of Fault?

Yes No

Severe Winds stopped work in most areas

Work Progress

Are there any Government Caused Delays?

Yes No

Are there any weather related delays?

Yes No

- 70 MPH winds
- Labeling of some drums
- POL Chlor D Test Tests Done
- Volume Calculations of POL Drums done & Recorded

Manpower and Equipment

LABOR			EQUIPMENT			
CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS USED
Site Supt	1	12	Pickup	1		10
CQC Operator	1	12	4 wheelers	2		4
HazMat Tech	1	12				
HazMat Tech	1	12				

TOTAL HOURS 48

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A LEVEL B LEVEL C LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

70 mph winds today - only work in areas free of contamination and loose debris - no weighing

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES NO

TYPES OF TEST METHOD RESULTS

- Chlor D Test - 4 composite samples from POC Drums taken & tested by Site Supt & CQC - all samples < 250 PPM
- also Volume Calculation from POC Drums - Done & recorded

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES NO

TYPE OF TEST EPA TEST METHOD QUANTITY OF SAMPLES

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES NO

REMARKS

- Camp area devastated due to winds of 70 mph
- Lost the Kitchen & facility, Showers, Commode, wash basins and Supply Tent - also doors on 3 tents
- Very little work we can do

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Cleved Platt DATE 8/1/95

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE DATE SUPERVISOR DATE



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 8/1/94 Test Number: _____

Test Location: Airfield Staging Area

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: _____

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes NO

Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): POL Volume Calculation - Calculated + Recorded

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature) Cheryl Heath



**Northwest
EnviroService
Inc.**

Testing Procedure Verification Form

Date: 8/1/94

Test Number: _____

Test Location: Airfield Staging Area

4 Samples, Composite, were taken from 201 Drums

Sample Procedures Comply (Circle) YES NO If not specify why: _____

Facilities Available (Circle) YES NO If not specify why: Test performed by Sgt Supt + CQC at the sleeping quarters

Testing Eqpt. Available (Circle) YES NO If not specify why: _____

Instrument Calibrations Current (Circle) Yes NO
Remarks _____

Recording forms, test identification control number, and test documentation prepared (Circle) YES NO If not specify why: _____

Test Results (If available): Chlor D Test Test
4 Composite Samples all < 250ppm

If tests are analyzed off-site, which testing facilities: _____

Additional Comments: _____

Completed By (Signature): Chris Heath

Drum #	Measurement	Volume
14		
POL 14	30	52 gal.
15	29	50 gal.
16	28 1/2	49 gal.
17	31	54 gal.
18	30	52 gal.
19	31	54 gal.
20	29 1/2	50 gal.
21	30 1/2	53 gal.
22	31	54 gal.
23	30 1/2	53 gal.
24	29 1/2	51 gal.
25	30	52 gal.
26	30	52 gal.
27	31	54 gal.

Total 730 gal.

ENVIRONMENTAL QUALITY CONTROL/QUALITY ASSURANCE REPORT

CONTRACT NUMBER / DELIVERY ORDER NUMBER: DACA 85-93-C-0048 PROJECT TITLE: HTW Removal of NE Cape - St. Law. Is.
 CQC REPORT NUMBER: # 29 LOCATION AND TEAM: NE Cape - St. Lawrence Island, AK.
 WEATHER CONDITIONS: _____ CONTRACTOR: _____

TEMP LOW: 42
 TEMP HIGH: 50
 WIND SPEED: 10-50 mph
 Contractor: Northwest Enviro Service, Inc.

Work Activities Performed This Date

Reference (NAS/Tech Sect)	Activity & Location	Quantity	Subcontractor
-	weighed all crates, labeled them & banded		
-	ventilated Tee-progylth Alcohol		
-	weighed PCB drums		
-	Took volume on PCB drums		Mapped staging Area
-	Collected Trash & debris		
-	Transported 6 drums to staging Area, weighed & labeled them		

Quality Control Inspections Performed This Date

(Indicate Preparatory, Initial, or Follow-Up inspection)

Follow Up on: Removal of poles
 : Removal of PCB Liquids, Containers, Material
 : Remove & Dispose of Paints, etc

Instructions Given to the Contractor

Verbal Written

- ✓ Make Sure all work sites are tidied up
- ✓ Make Sure all undone work on the QAR's and CQC's List is accomplished

Has Anything Occurred Which May Lead to a Delay or Finding of Fact?

Yes _____ No

Work Progress

Are there any Government Caused Delays?

Yes _____ No

Are there any weather related delays?

Yes _____ No

All identifiable features on the contract have been completed with the exception of some labeling (con out of vas) and the transporting of containers from NE CAPE

Manpower and Equipment

LABOR

EQUIPMENT

CLASSIFICATION	NUMBER	HOURS	EQUIPMENT	NUMBER	TYPE	HOURS	USED
Site Supt	1	12	4 wheelers	2		10	
CQC Syst. Mgr	1	12	Pickup	1		12	
Har Mat Tech	1	12	Trailer	1		12	
Har Mat Tech	1	12	Scale	1		3	
			Chain Hoist	1		3	
			Chon son	1		1	
		TOTAL HOURS				<u>48</u>	

HEALTH AND SAFETY

WORKER PROTECTION LEVELS THIS DATE: LEVEL A _____ LEVEL B _____ LEVEL C _____ LEVEL D

WAS ANY WORK ACTIVITY CONDUCTED WITHIN A CONFINED SPACE? YES _____ NO

WAS ANY WORK ACTIVITY CONDUCTED WITHIN AN AREA DETERMINED TO BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH? YES _____ NO

WERE APPROVED DECONTAMINATION PROCEDURES USED ON WORKERS AND EQUIPMENT AS REQUIRED? YES NO _____

SAFETY COMMENTS: (DAILY SAFETY COMMENTS ARE REQUIRED)

still windy - watch for flying objects
+ gantry crane stability

SAMPLING AND TESTING

HAS FIELD TESTING BEEN PERFORMED THIS DATE? YES _____ NO

TYPE OF TEST _____ METHOD _____ RESULTS _____

HAVE SAMPLES BEEN COLLECTED FOR LABORATORY ANALYSIS? YES _____ NO

TYPE OF TEST _____ EPA TEST METHOD _____ QUANTITY OF SAMPLES _____

HAVE Q.A. AND Q.C. SAMPLES BEEN COLLECTED IN THE SPECIFIED QUANTITY? YES _____ NO

HAVE SAMPLES BEEN PROPERLY LABELED AND PACKAGED? YES _____ NO NA

REMARKS

- Bell housings packed with absorbents before transporting in pickup
- All work site polished
- Ready for Final Inspection

THE ABOVE REPORT IS COMPLETE AND CORRECT, AND ALL WORK IS IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS, AND THE CONTRACT SPECIFICATIONS.

QUALITY CONTROL MANAGER Chad Hatt DATE 8/2/04

GOVERNMENT QUALITY ASSURANCE COMMENTS

QA SIGNATURE

DATE

SUPERVISOR

DATE



BY _____ DATE 7/21/94 CLIENT _____ SHEET 1 OF _____
CHKD. BY MK DESCRIPTION _____ JOB NO. _____

I ^{tech} Matty Herfindahl of North West Enviro accept responsibility for the following items and items.

1. 1994 Ford P/u, owned by Avis Rental (9134CZ)
Rate @ \$55/d plus mileage and gas
The current mileage is _____

2. ComSat Telecommunications unit.
Serial # 300949 with case.
Note: The follow defects are receiver holder screws come out and top antenna hinge are broken.
All call (toll) charges will be the responsibility of Northwest from this date forward.

3. Unleaded fuel 2 - unopened 55-gal drums.

4. One 55-gal. unleaded drum used on site

5. Empty Diesel 55-gal drums (26 total on site)

6. One ATV helmet block.

7. Gas generators (2)
a. 6500 Kubota
b. 2500

8. Water pump w/ hose (1 1/4" 1600 diam valves)

Signed Matt Herfindahl NWES
07-20-94

APPENDIX C

Data Presentation

Table C-1 presents field notes from 7/5/94. These six rusty drums were on the exposed deck of the General Supply Warehouse and had been omitted from earlier testing. Table C-2 represents more refined screening data that employs use of an electronic pH meter. Although these apparent soaps did not fit the definition of RCRA hazardous wastes (as defined by 40 CFR 261) they were still liquids and had the potential for emulsifying and thereby mobilizing subsurface accumulations of motor oil. A proposal was submitted to dispose of these drums along with the other hazardous wastes. The proposal was accepted and implemented during July 1994.

Powders retrieved from the same General Supply Warehouse were screened and results presented in Table C-3. All but item 940705-1 were shipped and disposed of in a TSDf controlled process.

Tables C-4 through C-6 described the POL liquids that were consolidated at the Cargo Beach Road Drum Field. The wastes were first screened using a Photo Ionization Detector (PID). The more volatile liquids were consolidated together. Samples from each of the fourteen drums were tested using a flash point apparatus and the results presented in Tables C-4 through C-6. On the basis of the flash point data (fire) drums were classified as Flammable Liquids and fire drums were classified as Combustible Liquids. All were tested with Chlor-d-TECT kits and found to have less than 1000 ppm halogens. During confirmation tests and prior to final disposal all were included in composite testing for PCB content and found to be negative. See results of samples NEC 118, 119 and 120. Two drums were discovered late in the project that were not in the contract specifications. Samples NEC 113 and 114 were collected from these two drums. One was from a drum along Cargo Beach Road near the fish camp and the other (Drum #5) was among the POL drums along the Cargo Beach Road Drum Field.

Results of the analyses on these two drums showed them both to contain antifreeze. Not being a RCRA hazardous waste liquid, these two drums were left behind.

Since this was not a decontamination project, no reports or test results were presented to CENPD-PE-GT-L. This was simply a packaging and disposal project. The analytical needs were to guide proper identification for DOT packaging and for characterization for safe disposal practices.

The sole exception was a contract requirement to test a potentially contaminated PCB excavation pit with a kit. Since a kit was specified and used no pretenses with regard to accuracy is warranted or shared with CENPD-PE-GT-L.

Table C-1
Field Test Results on 7/5/94

		<u>pH</u>	<u>PID</u>	<u>Volume</u>
L-1	Cream Liquid	9	1.0	55 gal.
L-2	Cream Liquid	9	15	40 gal.
L-3	Solid	9	2.0	2 gal.
L-4	Cream Liquid	9	20	25 gal.
L-5	Solid	9	26	30 gal.
L-6	Clear Liquid	10-11	9	45 gal.

Figure 1. Hazardous Waste Profile Data Sheet.

DATE: 7-9-94
CLIENT: COCJOB #: 210-5689

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER	L1-	!	L2 3, 4, 5		
WPQ NO.	Soap	Soap?	Soap?		
Number of Layers	1	1	1		
1 - Layer Color, Description & Percent	light brown liquid	clear liquid	brown liquid		
2					
3					
% Free Liquid	100%	100%	100%		
% Solid	0%	0%	few chunks		
Flash Point (NF = No Flash. BF = Ball Flame)	--	--	--		
Odor	Soap		strong		
Chlorination	--	--	--		
pH (Corrosivity)	~ 8	10.5	8.8		
Acid (HNO ₃ , HCl, H ₂ SO ₄ , Acetic)	--	--	--		
Cyanide or Sulfide screen	--	--	--		
COMMENTS	Surfactant type Soap	Degreaser detergent	Soap		
	→ MIGHT HAVE METALS AKK lig	AKK lig	→ MIGHT HAVE METALS - AKK lig		
	D-Ser metals?	D-Ser	D-Ser metals?		
ANALYTICAL SCHEME REQUIRED					

Table C-3

Figure 1. Hazardous Waste Profile Data Sheet.

DATE: 7-9-94
CLIENT: COEJOB #: 210-5689

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER	I-#940705-1	II-940705-2	III-940705-3	IV-940705-4	
WPC# NO: Notes on Container Label	acid resin?	Sodium Metasilicate	Sodium Silicate?	Calcium Hypochlorite	
Number of Layers	1	1	1	1	
1 - Layer Color, Description & Percent	Granular Solid light tan	white granular solid	flaky solid, semi-crystal	Wet slurry-white (paste)	
2					
3					
% Free Liquid					
% Solid	100%	100% crystal	100%	100%	
Flash Point (NF=No Flash. BF=Ball Flame)	WONT MELT				
Odor	None	? slight?	none	Calcium Hypochlorite	
Chlorination					
pH (Corrosivity)	~ 6.5	~ 8.6	~ 11	~ 11	
Acid (HNO3, HCl, H2SO4, Acetic)					
Cyanide or Sulfide screen		NO Cyanide - No arsine			
COMMENTS	insoluble in H2O	NOT NaOH Sodium Silicate	Not Sodium Silicate - Hydrated lime	Calcium Hypochlorite mixed with water and something else? → BUFFERED w/ A SEQUESTERANT	
	VERY LIKELY pH				
	↳ L.I.P.F. 1 ↓				
ANALYTICAL SCHEME REQUIRED		TO LAB FOR ANALYSIS (P&T)		G.I. OXIDIZER	

C-4

Table C-4

Figure 1. Hazardous Waste Profile Data Sheet.

DATE: 8/12/94
 CLIENT: USCOE

JOB #: 210-5689

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER	POL 14	POL 15	POL 16	POL 17	POL 18
WPQ NO.	OIL/FLAM?				
Number of Layers	1	2	2	2	2
1 - Layer Color, Description & Percent	Black oil	black liq w/ particulate matter 80%	Black liquid w/ particulate matter 90	BLACK liq >98% clear 22%	Black liquid 98% Grey sediment 2%
2		very clear liquid 20	very clear liquid 10		
3					
% Free Liquid	100	100	100	100	98%
% Solid	0	0	0	0	2%
Flash Point (NF = No Flash, BF = Ball Flame)	< 140 > 100	< 140 > 100	< 140 > 100	< 140 > 100	< 140 > 100
Odor	—	—	—	—	—
Chlorination	~ 750 PPM	< 250	< 250	< 250	< 250
pH (Corrosivity)	—	7	7	Too little	—
Acid (HNO ₃ , HCl, H ₂ SO ₄ , Acetic)	—	—	—	—	—
Cyanide or Sulfide screen	—	—	—	—	—
COMMENTS	FLAMMABLE NEC-11B-14	FLAMMABLE NEC-11B-15 LOWER LAYER BALL FLAMED LIKE ETHYLENE GUMROL	FLAMMABLE NEC-11B-16 → SAME	FLAMMABLE NEC-11B-17 Too little to check 2 nd layer	Flammable NEC-11B-18
ANALYTICAL SCHEME REQUIRED					

8/12/94 .um?

Figure 1. Hazardous Waste Profile Data Sheet.

DATE: 8/12/94
CLIENT: USCDEJOB #: 2-10-5689

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER	POL 19	POL 20	POL 21	POL 22	POL 23
WPQ NO.					
Number of Layers	1	1	1	1	1
1. Layer Color, Description & Percent	dark brown oil	dark brown oil 100	dark brown oil	dark brown oil	dark brown oil
2					
3					
% Free Liquid	100	100	100	100	100
% Solids	0	0	0	0	0
Flash Point (NF=No Flash, BF=Ball Flame)	>140	>140	>140	>140	>140
Odor	—	—	—	—	—
Chlorination	<250	~750 ppm	<250	~500 ppm	<250
pH (Corrosivity)	—	—	—	—	—
Acid (HNO ₃ , HCl, H ₂ SO ₄ , Acetic)	—	—	—	—	—
Cyanide or Sulfide screen	—	—	—	—	—
COMMENTS	good oil	good oil	good oil	good oil	good oil
	NEC-119-19	NEC-119-20	NEC-119-21	NEC-119-22	NEC-119-23
ANALYTICAL SCHEME REQUIRED					

8/12/94 HHH

Table C-6

Figure 1. Hazardous Waste Profile Data Sheet.

DATE: 8/12/94
 CLIENT: KS CoE

JOB #: 2-10-5689

PARAMETER	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
SAMPLE NUMBER	POL 24	POL 25	POL 26	POL 27	
WPG NO.					
Number of Layers	1	1	1	2	
1 - Layer Color, Description & Percent	dark brown	dark brown	dark brown	dark brown 85	
2				brown clear liq 15	
3					
% Free Liquid	100	100	100	100	
% Solid	0	0	0	0	
Flash Point (NF=No Flash, BF=Ball Flame)	>140	>140	>140	7140	
Odor	- oil	- Diesel	- Diesel	Diesel	
Chlorination	~ 500	<250	~ 500	<250	
pH (Corrosivity)	-	-	-	6	
Acid (HNO3, HCl, H2SO4, Acetic)	-	-	-	-	
Cyanide or Sulfide screen	-	-	-	-	
COMMENTS	gmt oil	good oil	good oil	good oil	
	NEC 120-24	NEC-120-25	NEC 120-26	NEC-120-27	
ANALYTICAL SCHEME REQUIRED					

8/12/94 MHP

C-7



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(907) 277-8378 • FAX 274-9645

Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 07/19/94
Date Arrived: 07/15/94
Date Sampled: 07/15/94
Time Sampled:
Collected By: LW

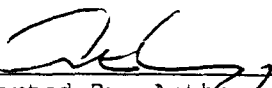
Attn: Larry Wilkinson

Our Lab #: A132070
Location/Project: NE Cape
Your Sample ID: 940705-5
Sample Matrix: Oil
Comments:

"Insulating Oil"

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132070	EPA 8080	Aroclor 1016	mg/kg	<MDL	0.77		07/15/94
		Aroclor 1221	mg/kg	<MDL	0.77		
		Aroclor 1232	mg/kg	<MDL	0.77		
		Aroclor 1242	mg/kg	<MDL	0.77		
		Aroclor 1248	mg/kg	<MDL	0.77		
		Aroclor 1254	mg/kg	<MDL	0.38		
		Aroclor 1260	mg/kg	<MDL	0.38		
		Surrogate Recovery	%	101			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501


Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132466
Location/Project:
Your Sample ID: NEC 01
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132466	EPA 8080	Aroclor 1016	mg/kg	<MDL	34188.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	34188.		
		Aroclor 1232	mg/kg	<MDL	34188.		
		Aroclor 1242	mg/kg	<MDL	34188.		
		Aroclor 1248	mg/kg	<MDL	34188.		
		Aroclor 1254	mg/kg	<MDL	17094.		
		Aroclor 1260	mg/kg	540000	17094.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH


Attn: Larry Wilkinson

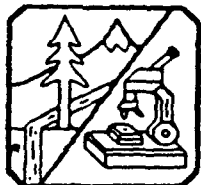
*** Definitions ***

B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Our Lab #: A132467
Location/Project:
Your Sample ID: NEC 02
Sample Matrix: Oil
Comments:

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132467	EPA 8080	Aroclor 1016	mg/kg	<MDL	29850.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	29850.		
		Aroclor 1232	mg/kg	<MDL	29850.		
		Aroclor 1242	mg/kg	<MDL	29850.		
		Aroclor 1248	mg/kg	<MDL	29850.		
		Aroclor 1254	mg/kg	<MDL	14925.		
		Aroclor 1260	mg/kg	590000	14925.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132468
Location/Project:
Your Sample ID: NEC 03
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132468	EPA 8080	Aroclor 1016	mg/kg	<MDL	29197.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	29197.		
		Aroclor 1232	mg/kg	<MDL	29197.		
		Aroclor 1242	mg/kg	<MDL	29197.		
		Aroclor 1248	mg/kg	<MDL	29197.		
		Aroclor 1254	mg/kg	<MDL	14598.		
		Aroclor 1260	mg/kg	560000	14598.		
		Surrogate Recovery	%		D		


Reported By: Anthony J. Lange
Chemistry Supervisor



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Northwest EnviroService, Inc.
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Anchorage AK 99501

Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Our Lab #: A132469
Location/Project:
Your Sample ID: NEC 04
Sample Matrix: Oil
Comments:

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132469	EPA 8080	Aroclor 1016	mg/kg	<MDL	32520.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	32520.		
		Aroclor 1232	mg/kg	<MDL	32520.		
		Aroclor 1242	mg/kg	<MDL	32520.		
		Aroclor 1248	mg/kg	<MDL	32520.		
		Aroclor 1254	mg/kg	<MDL	16260.		
		Aroclor 1260	mg/kg	630000	16260.		
		Surrogate Recovery	%		D		


Reported By: Anthony J. Lange
Chemistry Supervisor



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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Our Lab #: A132470
Location/Project:
Your Sample ID: NEC 05
Sample Matrix: Oil
Comments:

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132470	EPA 8080	Aroclor 1016	mg/kg	<MDL	33333.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	33333.		
		Aroclor 1232	mg/kg	<MDL	33333.		
		Aroclor 1242	mg/kg	<MDL	33333.		
		Aroclor 1248	mg/kg	<MDL	33333.		
		Aroclor 1254	mg/kg	<MDL	16666.		
		Aroclor 1260	mg/kg	550000	16666.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132471
Location/Project:
Your Sample ID: NEC 06
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132471	EPA 8080	Aroclor 1016	mg/kg	<MDL	33057.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	33057.		
		Aroclor 1232	mg/kg	<MDL	33057.		
		Aroclor 1242	mg/kg	<MDL	33057.		
		Aroclor 1248	mg/kg	<MDL	33057.		
		Aroclor 1254	mg/kg	<MDL	16528.		
		Aroclor 1260	mg/kg	480000	16528.		
		Surrogate Recovery	%		D		


Reported By: Anthony J. Lange
Chemistry Supervisor



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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132472
Location/Project:
Your Sample ID: NEC 07
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132472	EPA 8080	Aroclor 1016	mg/kg	<MDL	40000.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	40000.		
		Aroclor 1232	mg/kg	<MDL	40000.		
		Aroclor 1242	mg/kg	<MDL	40000.		
		Aroclor 1248	mg/kg	<MDL	40000.		
		Aroclor 1254	mg/kg	<MDL	40000.		
		Aroclor 1260	mg/kg	590000	20000.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501


Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132473
Location/Project:
Your Sample ID: NEC 08
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132473	EPA 8080	Aroclor 1016	mg/kg	<MDL	34188.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	34188.		
		Aroclor 1232	mg/kg	<MDL	34188.		
		Aroclor 1242	mg/kg	<MDL	34188.		
		Aroclor 1248	mg/kg	<MDL	34188.		
		Aroclor 1254	mg/kg	<MDL	17094.		
		Aroclor 1260	mg/kg	480000	17094.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132474
Location/Project:
Your Sample ID: NEC 09
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132474	EPA 8080	Aroclor 1016	mg/kg	<MDL	32000.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	32000.		
		Aroclor 1232	mg/kg	<MDL	32000.		
		Aroclor 1242	mg/kg	<MDL	32000.		
		Aroclor 1248	mg/kg	<MDL	32000.		
		Aroclor 1254	mg/kg	<MDL	16000.		
		Aroclor 1260	mg/kg	470000	16000.		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

3330 INDUSTRIAL AVENUE
2505 FAIRBANKS STREET

FAIRBANKS, ALASKA 99701
ANCHORAGE, ALASKA 99503

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(907) 277-8378 • FAX 274-9645

Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501


Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132475
Location/Project:
Your Sample ID: NEC 10
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132475	EPA 8080	Aroclor 1016	mg/kg	<MDL	30769.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	30769.		
		Aroclor 1232	mg/kg	<MDL	30769.		
		Aroclor 1242	mg/kg	<MDL	30769.		
		Aroclor 1248	mg/kg	<MDL	30769.		
		Aroclor 1254	mg/kg	<MDL	15384.		
		Aroclor 1260	mg/kg	480000	15384.		
		Surrogate Recovery	%		D		


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

3330 INDUSTRIAL AVENUE
2505 FAIRBANKS STREET

FAIRBANKS, ALASKA 99701
ANCHORAGE, ALASKA 99503

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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

* Definitions *

- B = Below Regulatory Min.
- H = Above Regulatory Max.
- E = Estimated Value
- M = Matrix Interference
- D = Lost to Dilution
- MDL = Method Detection Limit

Our Lab #: A132476
Location/Project:
Your Sample ID: NEC 11
Sample Matrix: Oil
Comments:

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132476	EPA 8080	Aroclor 1016	mg/kg	<MDL	336.13	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	336.13		
		Aroclor 1232	mg/kg	<MDL	336.13		
		Aroclor 1242	mg/kg	<MDL	336.13		
		Aroclor 1248	mg/kg	<MDL	336.13		
		Aroclor 1254	mg/kg	<MDL	168.07		
		Aroclor 1260	mg/kg	15600	1680.6		
		Surrogate Recovery	%	D			

Reported By: Anthony J. Lange
Chemistry Supervisor



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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132477
Location/Project:
Your Sample ID: NEC 12
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132477	EPA 8080	Aroclor 1016	mg/kg	<MDL	360.36	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	360.36		
		Aroclor 1232	mg/kg	<MDL	360.36		
		Aroclor 1242	mg/kg	<MDL	360.36		
		Aroclor 1248	mg/kg	<MDL	360.36		
		Aroclor 1254	mg/kg	<MDL	180.18		
		Aroclor 1260	mg/kg	5860	1801.8		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Northwest EnviroService, Inc.
1813 East 1st Avenue
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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132478
Location/Project:
Your Sample ID: NEC 13
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132478	EPA 8080	Aroclor 1016	mg/kg	<MDL	298.51	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	298.51		
		Aroclor 1232	mg/kg	<MDL	298.51		
		Aroclor 1242	mg/kg	<MDL	298.51		
		Aroclor 1248	mg/kg	<MDL	298.51		
		Aroclor 1254	mg/kg	<MDL	149.25		
		Aroclor 1260	mg/kg	69000	149.25		
		Surrogate Recovery	%	D			


Reported By: Anthony J. Lange
Chemistry Supervisor



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Report Date: 08/03/94
Date Arrived: 07/28/94
Date Sampled: 07/22/94
Time Sampled:
Collected By: MH

Attn: Larry Wilkinson

Our Lab #: A132479
Location/Project:
Your Sample ID: NEC 101
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132479	EPA 8080	Aroclor 1016	mg/kg	<MDL	31746.	07/29/94	7/29/94
		Aroclor 1221	mg/kg	<MDL	31746.		
		Aroclor 1232	mg/kg	<MDL	31746.		
		Aroclor 1242	mg/kg	<MDL	31746.		
		Aroclor 1248	mg/kg	<MDL	31746.		
		Aroclor 1254	mg/kg	<MDL	15873.		
		Aroclor 1260	mg/kg	84000	15873.		
		Surrogate Recovery	%		D		


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

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NorthWest EnviroService, Inc.
1813 E. 1st Ave.
Anchorage, Ak

Report Date: 08/22/94
Date Arrived: 08/16/94
Date Sampled: 08/13/94
Time Sampled:
Collected By: LW

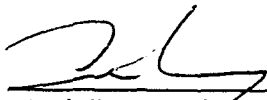
Attn: Larry Wilkinson

Our Lab #: A132990
Location/Project: NE Cape
Your Sample ID: NEC-118
Sample Matrix: Oil
Comments:

* Definitions *

B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132990	EPA 8080	Aroclor 1016	mg/kg	<MDL	0.95	08/16/94	08/17/94
		Aroclor 1221	mg/kg	<MDL	0.95		
		Aroclor 1232	mg/kg	<MDL	0.95		
		Aroclor 1242	mg/kg	<MDL	0.95		
		Aroclor 1248	mg/kg	<MDL	0.95		
		Aroclor 1254	mg/kg	<MDL	0.47		
		Aroclor 1260	mg/kg	<MDL	0.47		
		Surrogate Recovery	%	93			


Reported By: Anthony J. Lange
Chemistry Supervisor



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NorthWest EnviroService, Inc.
1813 E. 1rst Ave.
Anchorage, Ak

Report Date: 08/22/94
Date Arrived: 08/16/94
Date Sampled: 08/13/94
Time Sampled:
Collected By: LW

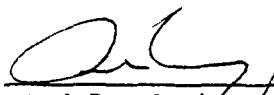
Attn: Larry Wilkinson

* Definitions *

B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Our Lab #: A132991
Location/Project: NE Cape
Your Sample ID: NEC-119
Sample Matrix: Oil
Comments:

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132991	EPA 8080	Aroclor 1016	mg/kg	<MDL	0.94	08/16/94	08/17/94
		Aroclor 1221	mg/kg	<MDL	0.94		
		Aroclor 1232	mg/kg	<MDL	0.94		
		Aroclor 1242	mg/kg	<MDL	0.94		
		Aroclor 1248	mg/kg	<MDL	0.94		
		Aroclor 1254	mg/kg	<MDL	0.47		
		Aroclor 1260	mg/kg	<MDL	0.47		
		Surrogate Recovery	%	95			


Reported By: Anthony J. Lange
Chemistry Supervisor



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NorthWest EnviroService, Inc.
1813 E. 1st Ave.
Anchorage, Ak

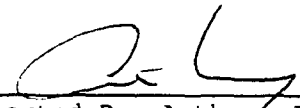
Report Date: 08/22/94
Date Arrived: 08/16/94
Date Sampled: 08/13/94
Time Sampled:
Collected By: LW

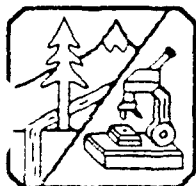
Attn: Larry Wilkinson

Our Lab #: A132992
Location/Project: NE Cape
Your Sample ID: NEC-120
Sample Matrix: Oil
Comments:

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132992	EPA 8080	Aroclor 1016	mg/kg	<MDL	0.94	08/16/94	08/17/94
		Aroclor 1221	mg/kg	<MDL	0.94		
		Aroclor 1232	mg/kg	<MDL	0.94		
		Aroclor 1242	mg/kg	<MDL	0.94		
		Aroclor 1248	mg/kg	<MDL	0.94		
		Aroclor 1254	mg/kg	<MDL	0.47		
		Aroclor 1260	mg/kg	<MDL	0.47		
		Surrogate Recovery	%	93			


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/29/94
Date Arrived: 08/11/94
Date Sampled: 07/29/94
Time Sampled: 10AM
Collected By:

Attn: LARRY WILKINSON

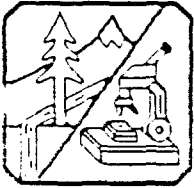
Our Lab #: A132855
Location/Project: NE CAPE
Your Sample ID: NEC-113
Sample Matrix: WATER

* Definitions *
B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Comments: No methanol, No ethanol. Glycols: Propylene=2.2%, Ethylene=94%.

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132855	GC/FID	Methanol	mg/L	<MDL	100		08/26/94

Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHERN TESTING LABORATORIES, INC.

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Northwest EnviroService, Inc.
1813 East 1st Avenue
Anchorage AK 99501

Report Date: 08/15/94
Date Arrived: 08/11/94
Date Sampled: 07/29/94
Time Sampled: 10AM
Collected By:


Attn: LARRY WILKINSON

Our Lab #: A132856
Location/Project: NE CAPE
Your Sample ID: NEC-114
Sample Matrix: WATER
Comments:

* Definitions *

B = Below Regulatory Min.
H = Above Regulatory Max.
E = Estimated Value
M = Matrix Interference
D = Lost to Dilution
MDL = Method Detection Limit

Lab Number	Method	Parameter	Units	Result	* MDL	Date Prepared	Date Analyzed
A132856	GC/FID	Ethylene Glycol	mg/L	<MDL	25000.		08/12/94
		Propylene Glycol	mg/L	180000	25000.		


Reported By: Anthony J. Lange
Chemistry Supervisor



NORTHWEST ENVIROSERVICE

9 4 0 8 0 5 · 1 I

Sample No.: _____
Date: _____
Outside Lab: _____
P.O. No.: _____

RUSH!

LABORATORY REPORT
(internal use only)

Generator Name: Corps - NE Cape Job No.: 210-5689
Generator Contact: _____ Gen. ID No.: NEC-107
NWES Contact: L. Wilkins WPO/Man.#: _____
Stated Waste Composition: ZINC DUST IRON OXIDE
TCLP HOT

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>8.0</u> <small>solid sample: 1+1 w/ H₂O if checked <input checked="" type="checkbox"/></small>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) _____ (mid) <u>violet</u> (btm) <u>OP</u>	% Acid/Base: _____	Water Solubility: <u>Partly Pos.</u>
% Liquid: _____ % Aqueous: _____ % Oil: _____ % Solvent: _____	Flash Point <u>NA</u> <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: <u>100%</u>	Flam. Pot. <input type="checkbox"/> pos <input checked="" type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	% Antifreeze: _____
Other: <u>appears to be zinc dust and iron oxide mixture.</u>		s.g./density: <input type="checkbox"/> 0.6-0.9 actual: <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input checked="" type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
Approvals: [Signature] Analyzed by: [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may affect the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Date of Report: 8/15/94
 Samples Submitted: 8/12/94
 File ID: 08-052
 Analysis: TCLP Metals (10)
 Unit: mg/L (ppm)

Client: Northwest EnviroService
 Project: Metals Analysis
 Project #: 54857
 Matrix: Extract

Results

Sample Number	08-052-1	08-052-2	08-052-3	08-052-4	08-052-5	Method Blank	Matrix Spike
Client Number	940810-0G	940810-0E	940805-II	940805-II	940805-IL		
Silver	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	95%
Arsenic	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	108%
Barium	1.7	0.12	<0.05	0.06	0.13	<0.05	93.6%
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	99.4%
Chromium	<0.05	<0.05	<0.05	0.26	0.16	<0.05	95.4%
Lead	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	99.6%
Selenium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	111%
Nickel	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	95.8%
Copper	<0.05	0.13	<0.05	0.06	<0.05	<0.05	98.4%
Zinc	0.59	1.0	377	0.28	1.9	<0.05	102%

ppm - parts per million





Mercury Analyzes

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940808-1L	7470	N.D.		0.5
940810-0G ✓	7470	N.D.		0.5
940810-0E ✓	7470	N.D.		0.5
940810-0D ✓	7470	0.64		0.5
940809-0T	7470	N.D.		0.5
940805-1J ✓	7470	0.95		0.5
940805-1I ✓	7470	N.D.		0.5
940805-1P	7470	N.D.		0.5
940805-1N	7470	N.D.		0.5

Date Sampled: August 8, 1994
 Date Received: August 12, 1994
 Date Digested: August 12, 1994
 Date Analyzed: August 12, 1994
 Sample Matrix: Water

Client: Northwest EnviroService Inc.
 Laboratory Batch #: 01576
 Units: ug/L

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940805-1J

ORGANIC ANALYSIS REPORT

Date: 8-9-94

(Internal Use Only) FID [] GC/MS []

Compound Name	Amount (PPM unless stated)	PQL
Methanol		
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments

Other Tests

PCBs by GC/ECD:		
TX:		
HOC:	< 100	
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: ISE

Storage Box: TCLP

Lab use only: Route to Sales Route to Technician Report Released: _____



**NORTHWEST
ENVIROSERVICE**

Sample No.: 940805-TJ

*RUSH
8/15*

LABORATORY REPORT
(internal use only)

Date: _____
Outside Lab: _____
P.O. No.: _____

Generator Name: Corps NE CAPE Job No.: 210-56
 Generator Contact: _____ Gen. ID No.: 611
 NWES Contact: L. WILKINSON WPO/Man.#: _____
 Stated Waste Composition: SPENT CALCIUM HYPOCHLORITE / BLEACH
TCLP EX TX PPD

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>11-01</u> solid sample: 1+1 w/ H ₂ O if checked <input checked="" type="checkbox"/>	Copper Wire: <input type="checkbox"/> neg. <input checked="" type="checkbox"/>
Color: (top) _____ (mid) <u>white</u> (btm) <u>OP</u>	% Acid/Base: _____	Water Solubility: <u>Positive</u>
% Liquid: _____ % Aqueous: _____ % Oil: _____ % Solvent: _____	Flash Point <u>NA</u> <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input checked="" type="checkbox"/> No Flash	Cr ⁶⁺ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: <u>100%</u>	Flam. Pot. <input type="checkbox"/> pos <input checked="" type="checkbox"/> neg <input type="checkbox"/> Ignitable Solid	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> % Antifreeze: _____
% Sludge: _____	Other: <u>appears to be bleaching powder & calcium hypochlorite.</u>	s.g./density: _____ actual: _____ other: <input type="checkbox"/> <input checked="" type="checkbox"/>

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: [Signature] Analyzed by: [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator's information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste not known to Generator but not supplied to NWES may affect the analyses performed by NWES. It is understood and agreed that NWES's procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Date of Report: 8/15/94
 Samples Submitted: 8/12/94
 File ID: 08-052
 Analysis: TCLP Metals (10)
 Unit: mg/L (ppm)

Client: Northwest EnviroService
 Project: Metals Analysis
 Project #: 54857
 Matrix: Extract

Results

Sample Number	08-052-1	08-052-2	08-052-3	08-052-4	08-052-5	Method Blank	Matrix Spike
Client Number	940810-OG	940810-OE	940805-II	940805-LJ	940805-IL		
Silver	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	99%
Arsenic	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	108%
Barium	1.7	0.12	<0.05	0.06	0.13	<0.05	93.6%
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	99.4%
Chromium	<0.05	<0.05	<0.05	0.26	0.16	<0.05	95.4%
Lead	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	99.6%
Selenium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	111%
Nickel	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	95.8%
Copper	<0.05	0.13	<0.05	0.06	<0.05	<0.05	98.4%
Zinc	0.59	1.0	377	0.28	1.9	<0.05	102%

ppm = parts per million

C-33





Mercury Analyses

Client:	Northwest EnviroService Inc.	Date Sampled:	August 8, 1994
Laboratory Batch #	81576	Date Received:	August 12, 1994
Units:	ug/L	Date Digested:	August 12, 1994
		Date Analyzed:	August 12, 1994
		Sample Matrix:	Water

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940808-1L	7470	N.D.		0.5
940810-0G ✓	7470	N.D.		0.5
940810-0E ✓	7470	N.D.		0.5
940810-0D ✓	7470	0.64		0.5
940809-0T	7470	N.D.		0.5
940805-1J ✓	7470	0.95		0.5
940805-1I ✓	7470	N.D.		0.5
940805-1P	7470	N.D.		0.5
940805-1N	7470	N.D.		0.5

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940805-15

ORGANIC ANALYSIS REPORT

Date: 8-9-94

(Internal Use Only) FID[] GC/MS[]

Compound Name	Amount (PPM unless stated)	PQL
Methanol		
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments

Other Tests

PCBs by GC/ECD:		
TX:	< 100	
HOC:		
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: 18E

Storage Box: TCLP



NORTHWEST ENVIROSERVICE

940807-0E

Sample No.: _____
 Date: _____
 Outside Lab: _____
 P.O. No.: _____

LABORATORY REPORT (internal use only)

Generator Name: CORPS NE CAPE Job No.: 2105089
 Generator Contact: _____ Gen. ID No.: 650-5
 NWES Contact: L. WILKINSON WPQ/Man.#: _____
 Stated Waste Composition: SEPTIC TANK ENZYMES

PFO H2O TCLP

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>7.0</u> <small>solid sample: 1+1 w/ H₂O if checked <input type="checkbox"/></small>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>tan op</u> (mid) _____ (btm) _____	% Acid/Base: _____	Water Solubility: <u>neg</u>
% Liquid: _____ % Aqueous: _____ % Oil: _____ % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: <u>*100%</u>	Flam. Pot. <input checked="" type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	% Antifreeze: _____
Other: <u>* appears to be flakes and granules</u>		s.g./density: <input type="checkbox"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> _____ <input checked="" type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: Michael Wilkins Analyzed by: Chris Beck Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

940807.0E

Batch Number:

940807B

Analysis Date:

8-18-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	40.10						
Cr (Chromium)	0.14	0.10					
Cu (Copper)	0.11	0.10					
Pb (Lead)	40.10						
Ni (Nickel)	0.11	0.10					
Zn (Zinc)	1.1	0.10					
Ag (Silver)	40.10						
Hg (Mercury)	—						
As (Arsenic)	40.50						
Ba (Barium)	0.12	0.10					
Se (Selenium)	40.50						

Analyst:

W. F.

Approval:

W. F.

Storage Box:

AAH



Mercury Analyses

Client:	Northwest EnviroService Inc.	Date Sampled:	August 5-11, 1994
Laboratory Batch #	01593	Date Received:	August 18, 1994
Units:	ng/L	Date Digested:	August 19, 1994
		Date Analyzed:	August 22, 1994
		Sample Matrix:	Other

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940811-0W	7470	0.6		0.5
940811-0S	7470	N.D.		0.5
940808-1D	7470	3.7		0.5
940809-0E	7470	N.D.		0.5
940809-0L	7470	N.D.		0.5
940808-0P	7470	N.D.		0.5
940808-0O	7470	N.D.		0.5
940809-0R	7470	1.1		0.5
940807-0U	7470	1.5		0.5
940807-0V	7470	2.1		0.5
940807-0W	7470	1.4		0.5
940807-0T	7470	3.1		0.5
940807-0R	7470	0.93		0.5
940807-0O	7470	N.D.		0.5
940807-0M	7470	N.D.		0.5
940807-0J	7470	N.D.		0.5
940809-0X	7470	N.D.		0.5
940807-0E	7470	N.D.		0.5
940807-0F	7470	2.6		0.5
940807-0G	7470	1.4		0.5
940807-0A	7470	N.D.		0.5
940805-0D	7470	0.6		0.5

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940807-ØE

ORGANIC ANALYSIS REPORT

Date: 8-12-94

(Internal Use Only) FID [] GC/MS []

Compound Name	Amount (PPM unless stated)	PQL
Methanol		
Trichlorofloromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifloroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments

Other Tests

PCBs by GC/ECD:		
TX:		
HOC:	< 100	
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: [Signature]

Storage Box: TCLA



NORTHWEST ENVIROSERVICE

940807-0F

Sample No.: _____ Date: _____

LABORATORY REPORT (internal use only)

Outside Lab: _____
P.O. No.: _____

Generator Name: Corps - NE CAPE Job No.: 210-5689
 Generator Contact: _____ Gen. ID No.: 650-7
 NWES Contact: L. WILKINSON WPO/Man.#: _____
 Stated Waste Composition: PAINT

TX SERV. TOL PFD PAINTS

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: _____ <small>solid sample: 1+1 w/ H₂O if checked <input type="checkbox"/></small>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>rust-red</u> (mid) _____ (btm) _____	% Acid/Base: _____	Water Solubility: <u>NEG</u>
% Liquid: <u>100%</u> % Aqueous: _____ % Oil: _____ % Solvent: <u>100%</u>	Flash Point <input checked="" type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Flam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	% Antifreeze: _____
Other: _____		s.g./density: <input checked="" type="checkbox"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> _____ <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____

Approvals: _____ Analyzed by: [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

940807.0F

Batch Number:

940817B

Analysis Date:

8-12-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	<0.10						
Cr (Chromium)	<0.10						
Cu (Copper)	<0.10						
Pb (Lead)	0.43	0.10					
Ni (Nickel)	<0.10						
Zn (Zinc)	0.12	0.10					
Ag (Silver)	<0.10						
Hg (Mercury)	—						
As (Arsenic)	<0.50						
Ba (Barium)	<0.10						
Se (Selenium)	<0.50						

Analyst:

[Signature]

Approval:

[Signature]

Storage Box:

E



Mercury Analyses

Client:	Northwest EnviroService Inc.	Date Sampled:	August 5-11, 1994
Laboratory Batch #	01593	Date Received:	August 18, 1994
Units:	ug/L	Date Digested:	August 19, 1994
		Date Analyzed:	August 22, 1994
		Sample Matrix:	Other

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940811-0W	7470	0.6		0.5
940811-0S	7470	N.D.		0.5
940808-1D	7470	3.7		0.5
940809-0E	7470	N.D.		0.5
940809-0L	7470	N.D.		0.5
940808-0P	7470	N.D.		0.5
940808-0O	7470	N.D.		0.5
940809-0R	7470	1.1		0.5
940807-0U	7470	1.5		0.5
940807-0V	7470	2.1		0.5
940807-0W	7470	1.4		0.5
940807-0T	7470	3.1		0.5
940807-0R	7470	0.93		0.5
940807-0O	7470	N.D.		0.5
940807-0M	7470	N.D.		0.5
940807-0J	7470	N.D.		0.5
940809-0X	7470	N.D.		0.5
940807-0E	7470	N.D.		0.5
940807-0F	7470	2.6		0.5
940807-0G	7470	1.4		0.5
940807-0A	7470	N.D.		0.5
940805-0D	7470	0.6		0.5

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940807-0F

ORGANIC ANALYSIS REPORT

Date: 8-12-94

(Internal Use Only) FID GC/MS

Compound Name	Amount (PPM unless stated)	PQL
Methanol	< 100	100 ppm
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene	0.30 %	
Xylenes (total)	3.0 %	
Cyclohexanone	< 100	
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments
* Analysis indicates
petroleum distillates

Other Tests

PCBs by GC/ECD:	
TX:	< 100
HOC:	
Pentachlorophenol (D037):	
Other (specify):	

Analyzed by: JS/SM

Storage Box: 7CLP



NORTHWEST ENVIROSERVICE INC.

9 4 0 8 0 7 . 0 G

Sample No.: _____
 Date: _____
 Outside Lab: _____
 P.O. No.: _____

LABORATORY REPORT (internal use only)

Generator Name: CORPS - NE CAPE Job No.: 210-5689
 Generator Contact: _____ Gen. ID No.: 650-8
 NWES Contact: L. WILKINSON WPO/Man.#: _____
 Stated Waste Composition: CYALIC ACID

HCL, TOLU PFD

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>4.0</u> 9.0 solid sample: 1+1 w/ H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>white - op</u> (mid) _____ (btm) _____	%Acid/Base: _____	Water Solubility: <u>Partial</u>
% Liquid: _____ %Aqueous: _____ % Oil: _____ % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: <u>*100%</u>	Flam. Pot. <input type="checkbox"/> pos <input checked="" type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	%Antifreeze: _____
Other: <u>* appears to be crystals</u>		s.g./density: <input type="checkbox"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input checked="" type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: [Signature] Analyzed by [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

94080706

Batch Number:

940817B

Analysis Date:

8-18-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	20.10						
Cr (Chromium)	20.10						
Cu (Copper)	20.10						
Pb (Lead)	20.10						
Ni (Nickel)	20.10						
Zn (Zinc)	0.30	0.10					
Ag (Silver)	20.10						
Hg (Mercury)	—						
As (Arsenic)	20.50						
Ba (Barium)	20.10						
Se (Selenium)	20.50						

Analyst:

W. J. [Signature]

Approval:

[Signature] E. R. [Signature]

Storage Box:

E3



Mercury Analyses

Client:	Northwest EnviroService Inc.	Date Sampled:	August 5-11, 1994
Laboratory Batch #	01593	Date Received:	August 18, 1994
Units:	ug/L	Date Digested:	August 19, 1994
		Date Analyzed:	August 22, 1994
		Sample Matrix:	Other

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940811-0W	7470	0.6		0.5
940811-0S	7470	N.D.		0.5
940808-1D	7470	3.7		0.5
940809-0H	7470	N.D.		0.5
940809-0I	7470	N.D.		0.5
940808-0P	7470	N.D.		0.5
940808-0O	7470	N.D.		0.5
940809-0R	7470	1.1		0.5
940807-0U	7470	1.5		0.5
940807-0V	7470	2.1		0.5
940807-0W	7470	1.4		0.5
940807-0T	7470	3.1		0.5
940807-0R	7470	0.93		0.5
940807-0O	7470	N.D.		0.5
940807-0M	7470	N.D.		0.5
940807-0J	7470	N.D.		0.5
940809-0X	7470	N.D.		0.5
940807-0E	7470	N.D.		0.5
940807-0F	7470	2.6		0.5
940807-0G	7470	1.4		0.5
940807-0A	7470	N.D.		0.5
940805-0D	7470	0.6		0.5

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940807-06

ORGANIC ANALYSIS REPORT

Date: 8-12-94

(Internal Use Only) FID[] GC/MS[]

Compound Name	Amount (PPM unless stated)	PQL
Methanol		
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments

Other Tests

PCBs by GC/ECD:	
TX:	
HOC:	< 100
Pentachlorophenol (D037):	
Other (specify):	

Analyzed by: CSF

Storage Box: TCLP



NORTHWEST ENVIROSERVICE INC.

TELECOPIER TRANSMITTAL REQUEST

DATE: 02 Sept

FROM: Ron Thomas

NORTHWEST ENVIROSERVICE, INC.
Seattle, Washington
(206) 622-1090, (800) 441-1090. FAX (206) 467-7358

TO: Harry Wilkinson Re: Sample No. 940807.0H

COMPANY: NWES - AR

FAX: _____

Total number of pages 2, including this page.

MESSAGE: The sample gives a non-characteristic flash, but it does sustain combustion after very short exposure to a Bunsen burner flame. Short exposure to the Bunsen burner flame indicates a low-temperature flash, viz flammability.

Please let me know if you have any further questions.

R Thomas

This message is intended for the use of the individual or entity to which it is transmitted and may contain information that is privileged, confidential and exempt from disclosure under applicable laws. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original communication to us at the address below via the U.S. Postal Service. We will reimburse you for the mailing costs. Thank you.

PO Box 24443 * Seattle, WA 98124 * 1700 Airport Way South * Seattle, WA 98134 * Phone (206) 622-1090 * Toll Free (800) 441-1090

Lab use only: Route to Sales Route to Technician Report Released: _____



NORTHWEST ENVIROSERVICE

Sample No.: 940807-04

LABORATORY REPORT
(internal use only)

Date: _____
Outside Lab: _____
P.O. No.: _____

Generator Name: Corps - NE CAPE Job No.: 210-5689
 Generator Contact: _____ Gen. ID No.: 650-9
 NWES Contact: L. WILKINSON WPQ/Man.#: _____
 Stated Waste Composition: NON-CHLORINATED SOLVENT

TX 501V

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: solid sample: 1-1 w H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>tan-op</u> (mid) _____ (btm) _____	% Acid/Base:	Water Solubility: <u>Neg</u>
% Liquid: <u>100%</u> % Aqueous: _____ % Oil: _____ % Solvent: <u>100%</u>	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input checked="" type="checkbox"/> No Flash	Cr ⁺⁶ : <input type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Fam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg <input type="checkbox"/> Ignitable Solid	Phenol: <input type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____		% Antifreeze:
Other: <u>*flammable - sample burns w/ contact with flame but non-characteristic flash</u>		s.g./density: <input checked="" type="checkbox"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: [Signature] Analyzed by: [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may affect the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.



NORTHWEST ENVIROSERVICE

Sample No.: 210-5689-01

Sample No.:

Date: _____

LABORATORY REPORT (internal use only)

Outside Lab: _____

P.O. No.: _____

Generator Name: CORPS - NE CAPE Job No.: 210-5689

Generator Contact: _____ Gen. ID No.: 650-10

NWES Contact: L. WILKINSON WPQ/Man.#: _____

Stated Waste Composition: SOAP

TR, PCBs, RUPPFD

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>9.0</u> solid sample: 1+1 w/ H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>tan - op</u> (mid) _____ (btm) _____	% Acid/Base:	Water Solubility: <u>partial</u>
% Liquid: <u>* 100%</u> % Aqueous: <u>100%</u> % Oil: _____ % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input checked="" type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid:	Flam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge:	<input type="checkbox"/> Ignitable Solid	% Antifreeze:
Other: <u>* appears to have suspended solids</u>		s.g./density: <input type="checkbox"/> 0.8-0.9 actual: <input checked="" type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: [Signature] Analyzed by [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge of information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may affect the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

940807.01

Batch Number:

9408218

Analysis Date:

9-23-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	40.10						
Cr (Chromium)	40.10						
Cu (Copper)	0.76	0.10					
Pb (Lead)	0.30	0.10					
Ni (Nickel)	40.10						
Zn (Zinc)	0.75	0.10					
Ag (Silver)	40.10						
Hg (Mercury)	—						
As (Arsenic)	40.50						
Ba (Barium)	40.10						
Se (Selenium)	40.50						

Analyst:

W...

Approval:

K... E...

Storage Box:

E3



Date of Report: 2/25/94
 Samples Submitted: 2/22/94
 File ID: 08-101
 Analysis: Total Mercury
 Units: mg/L (ppm)

Client: Northwest Environmental Service
 Project: Mercury Analysis
 Project #:
 Matrix: Water

Lab ID	Client ID	Result
08-101-1	940808-0G	<0.002
08-101-2	940808-0H	<0.002
08-101-3	940808-0J	<0.002
08-101-4	940808-0L	<0.002
08-101-5	940808-0N	<0.002
08-101-6	940808-0P	<0.002
08-101-7	940808-0R	<0.002
08-101-8	940808-0T	<0.002
08-101-9	940808-0V	<0.002
08-101-10	940815-1B	<0.002
08-101-11	940815-1L	<0.002
08-101-12	940815-1I	<0.002
08-101-13	940704-0A ✓	<0.002
08-101-14	940704-0B ✓	<0.002
08-101-15	940817-0A	0.027
08-101-16	940817-0R	<0.002
08-101-17	940807-0K	0.002
08-101-18	940811-0L	<0.002
08-101-19	940809-1D ✓	0.008
08-101-20	940809-0R ✓	<0.002
08-101-21	940809-0L ✓	<0.002
08-101-22	940809-0M ✓	<0.002
08-101-23	940815-1C	<0.002
08-101-24	940815-1F	<0.002
08-101-25	940815-1K	<0.002
08-101-26	940815-1M	<0.002
08-101-27	940808-0F	<0.002
08-101-28	940808-0U	<0.002
08-101-29	940808-0Q	<0.002
08-101-30	940807-0I	<0.002
08-101-31	940818-2M	<0.002
08-101-32	940818-2N	<0.002
08-101-33	940818-2O	<0.002
08-101-34	940818-2P	<0.002
08-101-35	940811-0X	<0.002
08-101-36	940811-0Y	<0.002
08-101-37	940815-1H	<0.002
08-101-38	940816-0I	0.002
08-101-39	940812-0G	<0.002
08-101-40	940812-0T	<0.002
Quality Assurance		
08-101-20 Duplicate		<0.002
08-101-40 Duplicate		<0.002
Method Blank		<0.002
08-101-20 Matrix Spike		94%
08-101-40 Matrix Spike		97%

ppm - parts per million

Post-it brand fax transmittal memo 7671 (1 of pages)

To: <i>Don Thomas</i>	From: <i>Sammi</i>
Co: <i>ANSI</i>	Co: <i>ANSI</i>
Dept: <i>Enviro</i>	Phone: <i>855-083</i>
Fax: <i>467-7358</i>	Fax: <i>558-0257</i>



Sample No.:

940807-Ø I

ORGANIC ANALYSIS REPORT

Date: 8-12-94

(Internal Use Only) FID [] GC/MS []

Compound Name	Amount (PPM unless stated)	PQL
Methanol		
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments

Other Tests

PCBs by GC/ECD:	< 1	
TX:	< 100	
HOC:		
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: RSStorage Box: TCP

Mercury Analyses

Client:	Northwest EnviroService Inc.	Date Sampled:	August 5-11, 1994
Laboratory Batch #	01593	Date Received:	August 18, 1994
Units:	ug/L	Date Digested:	August 19, 1994
		Date Analyzed:	August 22, 1994
		Sample Matrix:	Other

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940811-0W	7470	0.6		0.5
940811-0S	7470	N.D.		0.5
940808-1D	7470	3.7		0.5
940809-0H	7470	N.D.		0.5
940809-0I	7470	N.D.		0.5
940808-0P	7470	N.D.		0.5
940808-0O	7470	N.D.		0.5
940809-0R	7470	1.1		0.5
940807-0U	7470	1.5		0.5
940807-0V	7470	2.1		0.5
940807-0W	7470	1.4		0.5
940807-0T	7470	3.1		0.5
940807-0R	7470	0.93		0.5
940807-0O	7470	N.D.		0.5
940807-0M	7470	N.D.		0.5
940807-0J	7470	N.D.		0.5
940809-0X	7470	N.D.		0.5
940807-0E	7470	N.D.		0.5
940807-0F	7470	2.6		0.5
940807-0G	7470	1.4		0.5
940807-0A	7470	N.D.		0.5
940805-0D	7470	0.6		0.5

Notes

N.D.-Not detected above the reporting limit.



NORTHWEST ENVIROSERVICE

Sample No.: 940818-05

LABORATORY REPORT (internal use only)

Date: _____
 Outside Lab: _____
 P.O. No.: _____

Generator Name: U.S. COE. Job No.: 710-5689
 Generator Contact: Ron Broyles Gen. ID No.: 160-1
 NWES Contact: L. Wilkinson WPQ/Man.#: _____
 Stated Waste Composition: ISOPROPANOL

PF0

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: solid sample: 1+1 w/ H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>clear.</u> (mid) _____ (btm) _____	% Acid/Base:	Water Solubility: * <u>Pos.</u>
% Liquid: _____ % Aqueous: _____ % Oil: _____ % Solvent: * <u>100.</u>	Flash Point <input type="checkbox"/> < 70° F. <input type="checkbox"/> 140-200° F. <input type="checkbox"/> 70-100° F. <input type="checkbox"/> > 200° F. <input checked="" type="checkbox"/> 101-139° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Flam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	% Antifreeze:
Other: * <u>Appears to contain water</u> <u>Burns with Alcohol flame.</u>		s.g./density: <input type="checkbox"/> 0.8-0.9 actual: <input checked="" type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: [Signature] Analyzed by: _____ Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical results on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

940818.05

Batch Number:

940829B

Analysis Date:

8-30-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	40.10						
Cr (Chromium)	40.10						
Cu (Copper)	40.10						
Pb (Lead)	40.10						
Ni (Nickel)	40.10						
Zn (Zinc)	40.10						
Ag (Silver)	40.10						
Hg (Mercury)	—						
As (Arsenic)	40.50						
Ba (Barium)	40.10						
Se (Selenium)	40.50						

Analyst:

W. J. ...

Approval:

K. W. E. ...

Storage Box:



**NORTHWEST
ENVIROSERVICE**



Mercury Analyses

Client Sample ID	Method	Sample Result	Notes	Reporting Limit
940808-0K	7470	N.D.		0.50
940815-0U	7470	0.99		0.50
940815-0V	7470	N.D.		0.50
940817-0C	7470	N.D.		0.50
940817-0D	7470	N.D.		0.50
940817-0E	7470	N.D.		0.50
940817-0M	7470	N.D.		0.50
940817-0O	7470	N.D.		0.50
940817-0P	7470	N.D.		0.50
940817-0S	7470	N.D.		0.50
940818-0S	7470	3.1		0.50
940818-0V	7470	0.9		0.50
940818-0X	7470	1.8		0.50
940818-0Y	7470	1500		100
940818-0Z	7470	1300		100
940818-1A	7470	4.9		0.50
940818-1B	7470	16		1.0
940818-1C	7470	63		5.0
940818-1D	7470	100		10.0
940818-1E	7470	34		2.0
940818-1F	7470	1.5		0.50
940818-1G	7470	0.8		0.50
940818-1T	7470	0.6		0.50
940818-1U	7470	0.6		0.50
940818-1V	7470	N.D.		0.50
940818-1W	7470	516		25
940818-1X	7470	10.3		0.50

Notes

N.D.-Not detected above the reporting limit.



Sample No.:

940818-OS

ORGANIC ANALYSIS REPORT

Date: 8-22-94

(Internal Use Only) FID [X] GC/MS []

Compound Name	Amount (PPM unless stated)	PQL
Methanol	< 100	100. <i>11</i>
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)	✓	✓

Comments
* IPA ~ 15.0%

Other Tests

PCBs by GC/ECD:		
TX:		
HOC:	< 100	
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: *BE SM*

Storage Box: *AA*



NORTHWEST ENVIROSERVICE

Sample No.: 940818-0T

LABORATORY REPORT
(internal use only)

Date: _____
Outside Lab: _____
P.O. No.: _____

Generator Name: U.S.C.O.E. Job No.: 210-5689
 Generator Contact: ROY BROOKS Gen. ID No.: 660-2
 NWES Contact: L. WILKINSON WPQ/Man.#: _____
 Stated Waste Composition: WASTE OIL

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>2</u>	pH: <u>7.0</u> <small>solid sample: 1+1 w/ H₂O if checked <input type="checkbox"/></small>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>black</u> (mid) _____ (btm) <u>yellow trans.</u>	%Acid/Base: _____	Water Solubility: <input checked="" type="radio"/> Neg <input checked="" type="radio"/> Pos
% Liquid: <u>100</u> % Aqueous: <u>40</u> % Oil: <u>60</u> % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input checked="" type="radio"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input checked="" type="radio"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Fam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	%Antifreeze: _____
Other: _____		s.g./density: <input checked="" type="radio"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input checked="" type="radio"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____
 Approvals: _____ Analyzed by: SM Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process, is used to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.



Sample No.:

940818-φT

ORGANIC ANALYSIS REPORT

Date: 8-26-94

(Internal Use Only) FID GC/MS

Compound Name	Amount (PPM unless stated)	PQL
Methanol	<100.	100. ppm
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments
* Analysis indicates
petroleum distillates

Other Tests

PCBs by GC/ECD:	<1	
TX:		
HOC:	<100	
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: CE/SM

Storage Box: TCLP

Metals Report

Sample Number:

940818.0T

Batch Number:

940231B

Analysis Date:

9/6/94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	< 10						
Cr (Chromium)							
Cu (Copper)							
Pb (Lead)							
Ni (Nickel)	↓						
Zn (Zinc)	20	1.0					
Ag (Silver)	< 10						
Hg (Mercury)	—						
As (Arsenic)	< 50						
Ba (Barium)	< 10						
Se (Selenium)	< 50						

Analyst:

K. J. S. R. J.

Approval:

Storage Box:

655



Date of Report: 9/9/94
 Samples Submitted: 9/6/94
 File ID: 09-017
 Analysis: Total Mercury
 Units: mg/L (ppm)

Client: Northwest EnviroService
 Project: Mercury Analysis
 Project #:
 Matrix: Extracts

Lab ID	Client ID	Result
09-017-1	940831-0D	610
09-017-2	940831-0E	530
09-017-3	940831-0F	390
09-017-4	940831-0G	190
09-017-5	940903-0G	<0.006
09-017-6	940903-0H	<0.006
09-017-7	940903-0I	<0.006
09-017-8	940903-0J	<0.006
09-017-9	940808-0I	<0.006
09-017-10	940808-0S	<0.006
09-017-11	940815-1D	<0.006
09-017-12	940815-1E	<0.006
09-017-13	940818-0R	<0.006
09-017-14	940819-0J	<0.006
09-017-15	940818-0T	<0.006
09-017-16	940823-0B	<0.006
09-017-17	940823-2B	<0.006
09-017-18	940823-2C	<0.006
09-017-19	940823-2D	<0.006
09-017-20	940823-2E	<0.006
09-017-21	940818-2Q	0.12
09-017-22	940825-0C	<0.006
09-017-23	940824-1I	<0.006
09-017-24	940828-0F	<0.006
09-017-25	940824-1L	<0.006
09-017-26	940824-1M	<0.006
09-017-27	940825-0F	<0.006
09-017-28	940825-0J	<0.006
09-017-29	940825-0L	<0.006
09-017-30	940829-0F	<0.006
09-017-31	940830-0T	<0.006
09-017-32	940829-1H	0.012
09-017-33	940829-1I	<0.006
09-017-34	940829-1J	0.51
09-017-35	940828-0R	<0.006
09-017-36	940828-0P	<0.006
09-017-37	940825-0Y	<0.006
Quality Assurance		
Method Blank		<0.006





NORTHWEST ENVIROSERVICE

940829-1N

Sample No.: _____

Date: _____

LABORATORY REPORT (internal use only)

Outside Lab: _____

P.O. No.: _____

Generator Name: Corps - NE Cape Job No.: 210-5689

Generator Contact: _____ Gen. ID No.: NW 650-4

NWES Contact: L.E. WALKERSON WPQ/Man.#: AK 4989

Stated Waste Composition: Ammonium Chloride

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>< 0.0</u> solid sample: 1-1 w/ H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input type="checkbox"/> neg. <input checked="" type="checkbox"/> pos.
Color:(top) <u>clear</u> (mid) _____ (btm) _____	%Acid/Base: _____	Water Solubility: <u>Pos</u>
% Liquid: <u>100</u> % Aqueous: <u>100</u> % Oil: _____ % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input checked="" type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Flam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	%Antifreeze: _____
Other: _____		s.g./density: <input type="checkbox"/> 0.8-0.9 actual: <u>> 1.0</u> <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____

Approvals: [Signature] Analyzed by: SM Sample Storage Box: _____

The Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

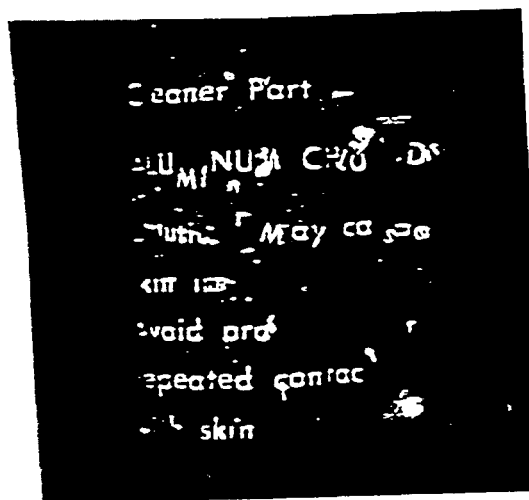


Image of Label on
Aluminum Chloride Jar
Sample NEA 650-4



NORTHWEST ENVIROSERVICE

Sample No.: 940829-0x

Date: _____
 Outside Lab: _____
 P.O. No.: _____

Doc a/b

LABORATORY REPORT (internal use only)

Generator Name: US Army WSACE NE Cape Job No.: 210-5689
 Generator Contact: Ron Beatty Gen. ID No.: NEC-115
 NWES Contact: Larry Warkowski WPQ/Man.#: _____
 Stated Waste Composition: Sodium Hydroxide

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>1</u>	pH: <u>>12.5</u> <small>solid sample: 1-1 w/ H₂O if checked <input checked="" type="checkbox"/></small>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) _____ (mid) <u>white, op.</u> (btm) _____	%Acid/Base: _____	Water Solubility: <u>Pos.</u>
% Liquid: _____ % Aqueous: _____ % Oil: _____ % Solvent: _____	Flash Point <input type="checkbox"/> < 70 ° F. <input type="checkbox"/> 140-200 ° F. <input type="checkbox"/> 70-100 ° F. <input type="checkbox"/> > 200 ° F. <input type="checkbox"/> 101-139 ° F. <input type="checkbox"/> No Flash	Cr ⁺⁶ : <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: <u>100%</u>	Flam. Pot. <input type="checkbox"/> pos <input checked="" type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	%Antifreeze: _____
Other: <u>Screen Tests appears to agree with the MSDS A-4908 and the Product Label.</u>	s.g./density: <input type="checkbox"/> 0.8-0.9 actual: _____ <input type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input checked="" type="checkbox"/> 1.0-1.1	

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked: <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked: <input type="checkbox"/>

Comments: _____

Approvals: Ron Beatty Analyzed by: AS/lan Sample Storage Box: H

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge or information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process known to Generator but not supplied to NWES may alter the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.



NORTHWEST ENVIROSERVICE

Sample No.: 940829-0y

Sample No.:

Date: _____

LABORATORY REPORT (internal use only)

Outside Lab: _____

P.O. No.: _____

Generator Name: US ARMY WSACE NE Cape Job No.: 210-5689

Generator Contact: Ron Brown Gen. ID No.: NEX 121

NWES Contact: Larry Wilkinson WPQ/Man.#: _____

Stated Waste Composition: Diesel, Used Oil, Water
TCHP Ext. PCBs, TX, Solvent Scan

Physical Description	Characteristics	Screen Tests
No. of Layers: <u>2</u>	pH: <u>6.5 (B)</u> solid sample: 1+1 w/ H ₂ O if checked <input type="checkbox"/>	Copper Wire: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
Color: (top) <u>Black, OP</u> (mid) _____ (btm) <u>Light Yellow, Semitrans</u>	% Acid/Base: _____	Water Solubility: <u>(T) Neg.</u> <u>(B) Pos.</u>
% Liquid: <u>100%</u> % Aqueous: <u>50% (B)</u> % Oil: <u>(T)</u> % Solvent: <u>50% (T)</u>	Flash Point <u>(T)</u> <input type="checkbox"/> < 70 °F. <input checked="" type="checkbox"/> 140-200 °F. <input type="checkbox"/> 70-100 °F. <input type="checkbox"/> > 200 °F. <input checked="" type="checkbox"/> 101-139 °F. <input checked="" type="checkbox"/> No Flash <u>(B)</u>	Cr+6: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Cyanide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Sulfide: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos. Hach Test >200ppm <input type="checkbox"/> yes <input type="checkbox"/> no
% Solid: _____	Flam. Pot. <input type="checkbox"/> pos <input type="checkbox"/> neg	Phenol: <input checked="" type="checkbox"/> neg. <input type="checkbox"/> pos.
% Sludge: _____	<input type="checkbox"/> Ignitable Solid	% Antifreeze: _____
Other: <u>(T) appears to be diesel + oil and</u> <u>(B) appears to be water.</u>		s.g./density: <u>(T)</u> <input checked="" type="checkbox"/> 0.8-0.9 actual: <u>(B)</u> <input checked="" type="checkbox"/> 0.9-1.0 other: <input type="checkbox"/> <input type="checkbox"/> 1.0-1.1

Analyses (units are in ppm unless otherwise indicated)

Hexavalent Chromium:	Cyanide (Total):
Fats, Oil & Grease (F.O.G.):	Cyanide (Amenable):
Phenol:	Metals analysis attached if checked. <input type="checkbox"/>
Other (specify):	Organic analysis attached if checked. <input type="checkbox"/>

Comments: _____

Approvals: [Signature] Analyzed by: [Signature] Sample Storage Box: _____

Note: Analysis of waste samples is based on the Generator's description supplied to NWES regarding the sample(s). Any Generator knowledge of information including, but not limited to, applicable Material Safety Data Sheet(s), constituents in waste and particulars of the waste generating process known to Generator but not supplied to NWES may affect the analyses performed by NWES. It is understood and agreed that NWES bases its analytical procedures on the waste composition provided by Generator. Reported analysis is only valid for wastes sent to NWES.

Metals Report

Sample Number:

940829.04

Mark Cal

Batch Number:

9409096

Analysis Date:

9-9-94

Sample Prep

- 40 CFR 136 (Water)
- SW 846: 1311 (TCLP)
- SW 846: 3010 (Liquids)
- SW 846: 3050 (Solids)

Analysis

- 40 CFR 136: 200.7 (Total)
- 40 CFR 136: 200.7 (Dissolved)
- SW 846: 6010 (ICP)
- SW 846: 7470/7471 (CVAA)

Analyte	ppm	mdl	mb	ms	% Rec	dup	% RSD
Cd (Cadmium)	40.10						
Cr (Chromium)	40.10						
Cu (Copper)	40.10						
Pb (Lead)	40.10						
Ni (Nickel)	40.10						
Zn (Zinc)	0.20	0.10					
Ag (Silver)	40.10						
Hg (Mercury)	—						
As (Arsenic)	40.10						
Ba (Barium)	40.10						
Se (Selenium)	40.10						

Analyst:

[Signature]

Approval:

[Signature]

Storage Box:

[Signature]





Sample No.:

940829-0Y

ORGANIC ANALYSIS REPORT

Date: 9-7-94

(Internal Use Only) FID GC/MS

Compound Name	Amount (PPM unless stated)	PQL
Methanol	<100-	100-ppm
Trichlorofluoromethane (Freon 11)		
1,1 Oxybisethane (Ethyl Ether)		
Trichlorotrifluoroethane (Freon 113)		
Acetone		
1,1 Dichloroethene (D029)		
Methylene Chloride		
Carbon Disulfide		
2 Butanone (MEK) (D035)		
Ethyl Acetate		
Chloroform (D022)		
Isobutanol		
1,1,1 Trichloroethane		
Carbon Tetrachloride (D019)		
n-Butanol		
Benzene (D018)		
1,2 Dichloroethane (D028)		
Trichloroethene (TCE) (D040)		
2-Ethoxyethanol (cellosolve)		
2-Nitropropane		
4-Methyl-2-Pentanone (MIBK)		
Toluene (Methyl Benzene)		
Pyridine (D038)		
1,1,2 Trichloroethane		
Tetrachlorethene (PCE) (D039)		
Chlorobenzene (D021)		
Ethylbenzene		
Xylenes (total)		
Cyclohexanone		
1,4 Dichlorobenzene (D027)		
1,2 Dichlorobenzene		
Hexachloroethane (D034)		
Cresols (D026)		
Nitrobenzene (D036)		
2,4,5 Trichlorophenol (D041)		
2,4,6 Trichlorophenol (D042)		

Comments
* Analysis indicates
petroleum distillates

Other Tests

PCBs by GC/ECD:	<1	
TX:	120	
HOC:		
Pentachlorophenol (D037):		
Other (specify):		

Analyzed by: 180/SM

Storage Box: 71

D

APPENDIX D

Quality Control Activities

Preconstruction Conference Agenda

24 May 1994

1. Sign-in and Introductions.
2. Purpose of Meeting: The purpose of the Preconstruction Conference is to go over the ground rules for administering the contract.
3. Safety Video - Col Pierce
4. Safety Overview - Ken Larson
5. Review Preconstruction Handout - John Jacobson
 - Administrative Procedures
 - Contract Clauses
 - Quality Control
 - Safety and Accident Prevention
6. Miscellaneous Issues:
 - Contractor Comments/Issues/Questions
 - ADEC Comments and Concerns
 - District Office Comments
 - Resident Office Comments

Scope of Work:

1. Mobilization and Demobilization to Jobsite.
2. Remove and Dispose of PCB Wastes
3. Remove and Dispose of Petroleum, Oils, and Lubricants (POL's).
4. Remove and Dispose of Other HTW
 - TCE, Paint Solvents, Ca Hypochlorite, Bromochloromethane, Oxalic acid, Sodium Hydroxide, Isopropyl Alcohol, Compressed Gas Cylinders.

The intent of this project is to remove and dispose of all items with a high concentration of hazardous and toxic wastes (HTW) that could pose a significant health hazard and if left on site, result in future releases that could be detrimental to the environment.

Table I-1

**HAZARDOUS AND TOXIC WASTE ITEMIZATION
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA**

Plan Reference/ Spec Paragraph	Waste Stream	Site Name	Assumptions and/or Identification	Suggested Packaging Method ^b	Suggested Transport Method ^b	Suggested Treatment/ Disposal Method ^b	Priority ^a
A/1.7.1	PCBs	Airport Terminal Area	Three transformers and contents	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
B/1.7.3	PCBs	Heat and Electric Power Building	Nine transformers and contents	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
C/1.7.4	PCBs	Emergency Power/Operations Building	Three transformers and contents	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
D/1.7.9	PCBs	Direction Finder site	One transformer casing	Solid - Type 17C	Barge/haul	Decon/disposal of transformers	II
E/1.7.8	PCBs	Power and communications line corridors	Transformer platform and PCB-contaminated soil	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
F/1.7.3	PCBs	Heat and Electric Power Building	Six oil switches and contents	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
G/1.7.4	PCBs	Emergency Power/Operations Building	Two oil switches and contents	Liquid - Type 17E Solid - Type 17C	Barge/haul	Incineration of liquids. Decon/disposal of transformers	II
H/1.7.2	POLs	Cargo Beach Road Drum Field	Drums containing product	Composite liquids in a Type-17E drum	Barge/haul	Energy recovery	III
I/1.7.1	Compressed Gas	Airport Terminal Area	Seven helium gas cylinders	NA	NA	NA	NA
J/1.7.5	Paints	Paint and Dope Storage Building	One-gallon cans of paint	Lab pack in a Type-17H drum	Barge/haul	Incineration	II

11-01010

Table 1-1
HAZARDOUS AND TOXIC WASTE ITEMIZATION
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

Plan Reference/ Spec Paragraph	Waste Stream	Site Name	Assumptions and/or Identification	Suggested Packaging Method ^b	Suggested Transport Method ^b	Suggested Treatment/ Disposal Method ^b	Priority ^a
K/1.7.7	Paints	Water Supply Building	Approximately 150 gallons of fire brick paint	Lab pack in a Type-17H drum	Barge/haul	Incineration	II
L/1.7.5	1,1,1-Trichloroethane	Paint and Dope Storage Building	Several 1-gallon cans	Lab pack in a Type-17H drum	Barge/haul	Incineration	III
M/1.7.5	PCBs	Paint and Dope Storage Building	Several 1-gallon cans of dielectric fluid	Composite liquids into a Type- 17E drum	Barge/haul	Incineration	II
N/1.7.6	Calcium hypochlorite	General Supply Warehouse and Mess Hall Warehouse	1-gallon plastic jugs contained in two 55-gallon drums	Overpack in an 82-gallon salvage drum	Barge/haul	TBD by TSD	II
O/1.7.6	Bromochloromethane	General Supply Warehouse and Mess Hall Warehouse	Nine 5-gallon cans	Composite liquids into a Type- 17E drum	Barge/haul	TBD by TSD	III
P/1.7.6	Oxalic Acid	General Supply Warehouse and Mess Hall Warehouse	Several plastic jugs	Lab pack in a Type-17H drum	Barge/haul	TBD by TSD	II
Q/1.7.6	Sodium Hydroxide	General Supply Warehouse and Mess Hall Warehouse	Four cases of 1-pint cans	Lab pack in a Type-17H drum	Barge/haul	TBD by TSD	II
R/1.7.6	Isopropyl Alcohol	General Supply Warehouse and Mess Hall Warehouse	Seven 1-quart bottles	Cardboard box approved for shipping	Barge/haul	Incineration	II
S/1.7.6	Paints, solvents, and POLs	General Supply Warehouse and Mess Hall Warehouse	Approximately 50 containers of various sizes	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	II
T/1.7.4	POLs	Emergency Power/Operations Building	One 55-gallon drum	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	III
U/1.7.5	Paints, solvents, and POLs	Paint and Dope Storage Building	Approximately 150 gallons of paints, solvents, and POLs	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	II

01010-12

Table 1-1

**HAZARDOUS AND TOXIC WASTE ITEMIZATION
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA**

Plan Reference/ Spec Paragraph	Waste Stream	Site Name	Assumptions and/or Identification	Suggested Packaging Method ^b	Suggested Transport Method ^b	Suggested Treatment/ Disposal Method ^b	Priority ^a
V/1.7.3	Paint-related materials	Heat and Electric Power Building	Three 5-gallon cans	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	TBD by HAZ-CAT profiling	II

^a Priority rating based on 49 CFR 172.101 packing groups. I, II, and III indicate the degree of danger presented by the material is either great, medium, or minor, respectively.

^b The methods provided in these columns are suggested methods only and are not intended to be contract requirements.

Key:

HAZ-CAT = Hazard Categorization Testing.
 NA = Not applicable.
 TBD = To be determined.
 TSD = Treatment, storage, and disposal.

Source: Ecology and Environment, Inc. 1993.

01010-13

NORTHEAST CAPE PROFILES

WPQ	Wastestream	Sample Sent To Seattle
AK4863	POL's (FP>140F)	8/11/94 as NEA-660-2
AK4864	POL's (FP<140F)	8/16/94 as NEA-662-1
AK4865	Latex	None Planned
AK4867	Calcium Hypochlorite	8/4/94 as NEA-650-11
AK4868	Isopropyl Alcohol	MSDS
AK4871	PCB Oil (>500 PPM) ✓	None Planned
AK4872	PCB Contaminated Water	None Planned
AK4873	Electrical Switches (>500 PPM) ✓	None Planned
AK4907	Oxalic Acid	8/4/94 as NEA-650-8
AK4908	Sodium Hydroxide	8/16/94 as NEA-662-2
AK4909	Aluminum Chloride	8/18/94
AK4911	Americoat Powder	8/4/94 as NEA-650-6
AK4912	Septic Tank Enzymes	8/4/94 as NEA-650-5
AK4913	Soap (liquid)	8/4/94 as NEA-650-10
AK4915	Soap (liquid)	
GO0700	Paint	8/4/94 as NEA-650-7
GO0900	Non-Chlor	8/4/94 as NEA-650-9
ESII-1	PCB Soil and Debris	None Planned
ESII-2	Transformers	None Planned

P.O. Box 24443, Seattle, Washington 98124 (206) 622-1090

PLEASE DO NOT SEPARATE FORMS
Generator's copy will be mailed back after NWES review

WPQ 000908

Generator U.S. EPA ID: 170010012281395 Sample Number: 8520-00-270-0065/NEA650-10/NEC/110, 940807-04, Generator Knowledge

Generator Name and Facility Address: USA251 USArmy USACE Northeast Cape Kangukhsam MT 52.25 miles Savoonga, AK 99769

Billing Address: USA251 USArmy USACE Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898

SIC CODE: 9711

Technical Contact: CPT M. Malson Title: Project Eng. Phone: (907)353-6131

Business Contact: Ken Larson Title: Resident Eng. Phone: (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name: Acetone, toluene, xylene, ethylbenzene, MEK, isobutanol, MIBK, cresols, nitrobenzene, benzene, arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver (GENERIC WPQ)

Process Generating Waste: Waste solvents

Physical State At 70°F: Solid Sludge Liquid Powder Compressed Gas

Free Liquids at 70°F: Yes No Volume: 100 %

BP < 95°F: < 70°F 70°-99°F 100°-139°F

Flash Point: 140°-200°F... > 200°F No Flash

Closed Cup: Open Cup: Exact: _____

Layers: Multilayered Bi-Layered Homogenous

pH: < 2 > 2-4 4.1-10 10.1-12.4 ≥ 12.5 Exact

Solids: By Volume Total _____ % Dissolved _____ % Suspended _____ %

Specific Gravity: _____ Density: _____

Odor: None Strong Mild Describe: solvents

Color: tan op

METALS

Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As)	<u>5</u>	Mercury (Hg)	<u>>0.1-150</u>
Barium (Ba)	<u>100</u>	Nickel (Ni)	<u>100</u>
Cadmium (Cd)	<u>1</u>	Selenium (Se)	<u>1</u>
Chromium (Cr)	<u>5</u>	Silver (Ag)	<u>5</u>
Copper (Cu)	<u>>100</u>	Zinc (Zn)	<u>100</u>
Lead (Pb)	<u>5</u>	Nondetectable	

REACTIVES AND OTHER WASTES (PPM)

Amines	<u>NT</u>	PCB's	<u>NT</u>
Cyanides	<u>NT</u>	HexChrome	<u>NT</u>
Sulfides	<u>NT</u>	HOC	<u>TX <100</u>

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

Other (Specify):

H ₂ O	<u>10</u> %	Acetone	<u>30-70</u> %
HCl		Toluene	<u>40</u> %
H ₂ SO ₄		Xylene	<u>40</u> %
HNO ₃		Ethylbenzene	<u>40</u> %
NaOH		Methyl ethyl ketone	<u>40</u> %
Phenols		Isobutanol	<u>40</u> %
Benzene	<u>10</u> %	Methyl isobutyl ketone	<u>40</u> %
		Cresols	<u>40</u> %
		Nitrobenzene	<u>40</u> %

SHIPPING & HANDLING INFORMATION

Proper Shipping Name: Waste Flammable liquids, n.p.s. (acetone, toluene)

DOT Hazard Class: 3 I.D. #: UN1993

PG III RQ D001-100 F ERG 2

Poison Yes No Inhalation Hazard Yes No Dangerous When Wet Yes No

Marine Pollutant Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____

Other Type _____ Volume _____

Projected: _____ Gals/lbs per mo yr.

Additional Labels Required: 120B

HAZARDOUS PROPERTIES

U.S. EPA Hazardous Codes: D001 D004 D005 D006 D007 D008 D009 D010 D011 D018 D023

Washington State Codes: W002 W002 *D024 D025*

State Designation: DW EHW Biological Characteristics

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, SOIL

OSHA/WISHA CARCINOGEN WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)

Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: *D026 I035 F003 F004 F005

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael J. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review: Michael J. Malson Chemical Nature: O I OR Date Reviewed: 9-8-94 Regulatory Review: Wanda F. Cook

Status: Approved/Permitted Denied Pending

SOIC SOIT TSO B 9/2/94

Generator U.S. EPA ID <u>WA000010108 121925</u>	Sample Number <u>NEC-108-NEA250-7 / 940307 PF</u>
Generator Name and Facility Address <u>USA251- USArmy USACE Northeast Cape Kangurhsam MT 52.25 miles Savoonga. AK 99760</u>	Billing Address <u>USArmy USACE Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898</u>
SIC CODE: <u>9711</u>	

Technical Contact <u>CPT M. Malson</u>	Title <u>Project Eng.</u>	Phone <u>(907)353-6131</u>
Business Contact <u>Ken Larson</u>	Title <u>Resident Eng.</u>	Phone <u>(907)353-7550</u>

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Paint-flammable. MKK, benzene, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, zinc, non F-listed halogenated organic compounds <1% (GENERIC WPO)

Process Generating Waste
waste and discarded material

Physical State At 70°F. <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume <u>280</u> %	BP < 95°F <input checked="" type="checkbox"/> < 70°F. <input type="checkbox"/> 70-99°F. <input type="checkbox"/> 100-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input type="checkbox"/> Closed Cup <input type="checkbox"/> > 200°F. <input type="checkbox"/> Open Cup <input type="checkbox"/> No Flash Exact	Layers <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input type="checkbox"/> < 2 <input type="checkbox"/> 10.1-12.4 <input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5 <input checked="" type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact	Solids: <input checked="" type="checkbox"/> By Volume Total <u>20</u> % Dissolved _____ % Suspended _____ %	Specific Gravity Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe _____	Color <u>white</u>

METALS

Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As) >5	Mercury (Hg) 0.2-260
Barium >100	Nickel (Ni) >1000
Cadmium (Cd) >1	Selenium (Se) >1
Chromium (Cr) >5	Silver (Ag) >5
Copper (Cu) >1000	Zinc (Zn) >1000
Lead (Pb) >5	Nondetectable

REACTIVES AND OTHER WASTES (PPM)

Amines NT	PCB's NT
Cyanides NT	HexChrome NT
Sulfides NT	HOC <1%

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

H ₂ O <5 %	Paint >90 %
HCl _____ %	Debris <5 %
H ₂ SO ₄ _____ %	Methyl ethyl ketone <0.1 %
HNO ₃ _____ %	
NaOH _____ %	
Phenols _____ %	
Benzene <1 %	

Other (Specify):

SHIPPING & HANDLING INFORMATION

Proper Shipping Name: Waste paint

DOT Hazard Class: 3 I.D. #: UN1263

613 RD 0001-100 P ERG 26

Poison Yes No Inhalation Hazard Yes No Dangerous When Wet Yes No

Airne Pollutant Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____

Other Type _____ Volume _____

Projected: _____ Gals/lbs per mo yr.

Additional Labels Required: _____

HAZARDOUS PROPERTIES

U.S. EPA Hazardous Codes D001 D004 D005 D006 D007 D008
D009 D010 D011 D018 D035

Washington State Codes W01 W02 W02

State Designation DW EHW Biological Characteristics

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, SOIL

OSHA/WISHA CARCINOGEN WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)

Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: FSL(SYSTEM)

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael F. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review <u>Michael Schellberg</u>	Chemical Nature <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 01	Date Reviewed <u>9-2-94</u>	Regulatory Review <u>Michael F. Malson</u>
Status			<input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending

SOIC SO2T TSO E 9/2/94

Generator U.S. EPA ID <u>AK1001001212B1395</u>	Sample Number <u>NEA660-2/NEC117, 940818-PT</u>
Generator Name and Facility Address <u>USA251 USArmy USACK Northeast Cape Kangukhsam MT 52.25 miles Savoonga, AK 99769</u>	Billing Address <u>USA251 USArmy USACK Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898</u>
SIC CODE:	

Technical Contact <u>CPT M. Malson</u>	Title <u>Project Eng.</u>	Phone <u>(907)353-6131</u>
Business Contact <u>Ken Larson</u>	Title <u>Resident Eng.</u>	Phone <u>(907)353-7550</u>

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Lube oil, diesel and water

Process Generating Waste
Military site restoration

Physical State At 70°F. <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume <u>100</u> %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input type="checkbox"/> 100°-139°F.	Flash Point <input checked="" type="checkbox"/> 140°-200°F. <input type="checkbox"/> Closed Cup <input type="checkbox"/> > 200°F. <input type="checkbox"/> Open Cup <input type="checkbox"/> No Flash Exact	Layers <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input type="checkbox"/> < 2 <input type="checkbox"/> 10.1-12.4 <input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5 <input checked="" type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact	Solids <input type="checkbox"/> By Volume Total _____ % Dissolved _____ % Suspended _____ %	Specific Gravity Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe <u>lube oil</u>	Color W: <u>black</u> B: <u>clear</u>

METALS <input type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP)	WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total) Other (Specify):
Arsenic (As) <u>NT</u> Mercury (Hg) <u>NT</u> Barium (Ba) <u>NT</u> Nickel (Ni) <u>NT</u> Cadmium (Cd) <u>NT</u> Selenium (Se) <u>NT</u> Chromium (Cr) <u>NT</u> Silver (Ag) <u>NT</u> Copper (Cu) <u>NT</u> Zinc (Zn) <u>NT</u> Lead (Pb) <u>NT</u> Nondetectable <u>NT</u>	H ₂ O <u>10-30</u> % Oil <u>10-30</u> % HCl _____ % Diesel <u>0-5</u> % H ₂ SO ₄ _____ % HNO ₃ _____ % NaOH _____ % Phenols _____ % Benzene _____ %
REACTIVES AND OTHER WASTES (PPM)	
Amines <u>NT</u> PCB's <u>NT</u> Cyanides <u>NT</u> HexChrome <u>NT</u> Sulfides <u>NT</u> HOC <u>NT</u>	

SHIPPING & HANDLING INFORMATION	HAZARDOUS PROPERTIES
Proper Shipping Name: <u>Combustible liquid, n.o.s.</u> <u>lube oil</u>	U.S. EPA Hazardous Codes _____
DOT Hazard Class: <u>Combustible liquid</u> I.D. #: <u>NA1993</u>	Washington State Codes _____
PG <u>III</u> RQ _____ ERG <u>27</u>	State Designation DW <input type="checkbox"/> EHW <input type="checkbox"/> <input type="checkbox"/> Biological Characteristics
Poison <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Inhalation Hazard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Dangerous When Wet <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is Waste Product: <input type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> None of Above <input type="checkbox"/> Other
Marine Pollutant <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> EXEMPT, <input type="checkbox"/> TSCA, <input type="checkbox"/> CERCLA, <input type="checkbox"/> HOUSEHOLD, <input type="checkbox"/> DEBRIS, <input type="checkbox"/> SOIL
DOT Shipping Container: <u>Drum</u> <input checked="" type="checkbox"/> Volume _____ Bulk <input type="checkbox"/> Volume _____	<input type="checkbox"/> OSHA/WISHA CARCINOGEN <input type="checkbox"/> WASTE WATER <input checked="" type="checkbox"/> NON WASTE WATER
Other <input type="checkbox"/> Type _____ Volume _____	<input type="checkbox"/> Subject to Land Disposal Restrictions (if marked fill out notification)
Projected: _____ Gals/lbs per <input type="checkbox"/> mo <input type="checkbox"/> yr.	<input type="checkbox"/> Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)
Additional Labels Required: _____	Special Handling Requirements: <u>NOVA 1705</u>

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael F. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review <u>Michael Scheldorf</u>	Chemical Nature <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> On	Date Reviewed <u>9-9-94</u>	Regulatory Review <u>Mundel K. Cook</u>
Status <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending			

SOIC SOFT TEST

Generator U.S. EPA ID AK0101012218131915	Sample Number NEA663-1/NEC121, 940829.0Y	
Generator Name and Facility Address USA251 USArmy USACE Northeast Cape Kanguksam MT 52.25 miles Savoonga, AK 99769	Billing Address USA251 USArmy USACE Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898	
SIC CODE:		
Technical Contact CPT M. Malson	Title Project Eng.	Phone (907)353-6131
Business Contact Ken Larson	Title Resident Eng.	Phone (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Diesel, lube oil, water

Process Generating Waste
Military site restoration

Physical State At 70°F. <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume 100 %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input checked="" type="checkbox"/> 100°-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input type="checkbox"/> > 200°F. <input type="checkbox"/> No Flash	Layers <input type="checkbox"/> Multilayered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input type="checkbox"/> ≤ 2 <input type="checkbox"/> 10.1-12.4 <input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5 <input type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact	Solids <input type="checkbox"/> By Volume Total _____ % Dissolved _____ % Suspended _____ %	Specific Gravity Density: <input checked="" type="checkbox"/> Liquid 8.00 lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input type="checkbox"/> None <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Mild Describe lube oil	Color Black Clear

METALS	WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)
<input type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP)	Other (Specify):
Arsenic (As) NT Barium (Ba) NT Cadmium (Cd) NT Chromium (Cr) NT Copper (Cu) NT Lead (Pb) NT Mercury (Hg) NT Nickel (Ni) NT Selenium (Se) NT Silver (Ag) NT Zinc (Zn) NT Nondetectable NT	H ₂ O 10-40 % HCl _____ % H ₂ SO ₄ _____ % HNO ₃ _____ % NaOH _____ % Phenols _____ % Benzene _____ % Oil 10-20 % Diesel 20-50 %
REACTIVES AND OTHER WASTES (PPM)	
Amines NT Cyanides NT Sulfides NT PCB's NT HexChrome NT HOC NT	

SHIPPING & HANDLING INFORMATION	HAZARDOUS PROPERTIES
Proper Shipping Name: waste flammable liquids, n.o.s. (diesel, oil)	U.S. EPA Hazardous Codes 1001
DOT Hazard Class: 3 I.D. #: UN1993	Washington State Codes _____
PG II RO D001-100P ERG 27	State Designation DW <input checked="" type="checkbox"/> EHW <input type="checkbox"/> <input type="checkbox"/> Biological Characteristics
Poison <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Inhalation Hazard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Dangerous When Wet <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is Waste Product: <input checked="" type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input type="checkbox"/> None of Above <input type="checkbox"/> Other
Marine Pollutant <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> EXEMPT, <input type="checkbox"/> TSCA, <input type="checkbox"/> CERCLA, <input type="checkbox"/> HOUSEHOLD, <input type="checkbox"/> DEBRIS, <input type="checkbox"/> SOIL
DOT Shipping Container: Drum <input checked="" type="checkbox"/> Volume _____ Bulk <input type="checkbox"/> Volume _____	<input type="checkbox"/> OSHA/WISHA CARCINOGEN <input type="checkbox"/> WASTE WATER <input checked="" type="checkbox"/> NON WASTE WATER
Other <input type="checkbox"/> Type _____ Volume _____	<input checked="" type="checkbox"/> Subject to Land Disposal Restrictions (if marked fill out notification)
Projected: _____ Gals/lbs per <input type="checkbox"/> mo <input type="checkbox"/> yr.	<input type="checkbox"/> Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)
Additional Labels Required: _____	Special Handling Requirements: 1203

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature **Michael F. Malson** Title **Project Engineer** Date **19 Aug 94**

NWES INC. USE ONLY

Technician Review Michael Schindorf	Chemical Nature <input type="checkbox"/> O <input type="checkbox"/> I <input checked="" type="checkbox"/> OR	Date Reviewed 9-9-94	Regulatory Review Michael F. Malson
Status <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending			

Generator U.S. EPA ID: AKR00100208395 Sample Number: _____ Generator Knowledge: _____

Generator Name and Facility Address: USA251 USArmy USACE Northeast Cape
Kangukhsam MT 52.25 miles
Savoonga, AK 99769

Billing Address: USA251 USArmy USACE Northeast Cape
P.O. Box 890
Anchorage, AK 99506-0898

ISIC CODE: _____

Technical Contact: CPT M. Malson Title: Project Eng. Phone: (907)353-6131

Business Contact: Ken Larson Title: Resident Eng. Phone: (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name: Latex loose pack, mercury >0.2-<20

Process Generating Waste: Military site restoration

Physical State At 70°F.		Free Liquids at 70°F.		IBP < 95°F	Flash Point	Layers
<input type="checkbox"/> Solid	<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> < 70°F.	<input type="checkbox"/> 140°-200°F.	<input type="checkbox"/> Closed Cup
<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Powder	Volume <u>40-60</u>	% _____	<input type="checkbox"/> 70°-99°F.	<input checked="" type="checkbox"/> > 200°F.	<input type="checkbox"/> Open Cup
<input type="checkbox"/> Compressed Gas				<input type="checkbox"/> 100°-139°F.	<input type="checkbox"/> No Flash	Exact _____
pH		Solids		Specific Gravity		Odor
<input type="checkbox"/> < 2	<input type="checkbox"/> 10.1-12.4	<input checked="" type="checkbox"/> By Volume	Total <u>40-60</u>	Density:		<input checked="" type="checkbox"/> None
<input type="checkbox"/> > 2-4	<input type="checkbox"/> > 12.5	Dissolved _____	% _____	<input type="checkbox"/> Liquid	lbs./gal.	<input type="checkbox"/> Strong
<input checked="" type="checkbox"/> 4.1-10	Exact _____	Suspended <u>40-60</u>	% _____	<input type="checkbox"/> Solid	lbs./ft. ³	<input type="checkbox"/> Mild
					Describe _____	Color: <u>multi</u>

TESTS

Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As)	<u>NT</u>	Mercury (Hg)	<u>>0.2-<20</u>
Barium (Ba)	<u>NT</u>	Nickel (Ni)	<u>NT</u>
Cadmium (Cd)	<u>NT</u>	Selenium (Se)	<u>NT</u>
Chromium (Cr)	<u>NT</u>	Silver (Ag)	<u>NT</u>
Copper (Cu)	<u>NT</u>	Zinc (Zn)	<u>NT</u>
Lead (Pb)	<u>NT</u>	Nondetectable	<u>NT</u>

REACTIVES AND OTHER WASTES (PPM)

Amines	<u>NT</u>	PCB's	<u>NT</u>
Cyanides	<u>NT</u>	HexChrome	<u>NT</u>
Sulfides	<u>NT</u>	HOC	<u>NT</u>

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

H ₂ O	<u>30-50</u>	%	Other (Specify): <u>Latex emulsion</u>	<u>50-70</u>
HCl	_____	%		
H ₂ SO ₄	_____	%		
HNO ₃	_____	%		
NaOH	_____	%		
Phenols	_____	%		
Benzene	_____	%		

SHIPPING & HANDLING INFORMATION

Proper Shipping Name: Hazardous waste, liquid, n.c.s.
(mercury)

DOT Hazard Class: 9 I.D. #: NA3082

PG III RQ ERG 31

Person Yes No Inhalation Hazard Yes No Dangerous When Wet: Yes No

Marine Pollutant: Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____

Other Type _____ Volume _____

Projected: _____ Gals/lbs per mo yr

Additional Labels Required: _____

HAZARDOUS PROPERTIES

U.S. EPA Hazardous Codes: D009

Washington State Codes: WT02

State Designation: DW EHW Biological Characteristic

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, SC

OSHA/WISHA CARCINOGEN WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)

Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: _____

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: _____ Title: _____ Date: _____

NWES INC. USE ONLY

Technical Review: _____ Chemical Nature: _____ Date Reviewed: _____ Regulatory Review: _____

O I OH Status: _____ Approved/Permitted Denied Pending

Generator U.S. EPA ID	Sample Number	Billing Address	
	NEAC50 11/940705	USA251 USArmy USACK Northeast Cape	
Generator Name and Facility Address		Billing Address	
51 USArmy USACE Northeast Cape Kangukhsam MT 52.25 miles Savoonga, AK 99769		P.O. Box 890 Anchorage, AK 99506-0898	
SIC CODE: 9711			
Technical Contact	Title	Phone	
CPT M. Malson	Project Eng.	(907)353-6131	
Business Contact	Title	Phone	
Ken Larson	Resident Eng.	(907)353-7550	

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name: Spent calcium hypochlorite with <39% available chlorine

Process Generating Waste: Military site restoration

Physical State At 70°F.	Free Liquids at 70°F.	BP < 95°F	Flash Point	Layers
<input type="checkbox"/> Solid <input checked="" type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> < 70°F.	<input type="checkbox"/> 140°-200°F.	<input type="checkbox"/> Multilayered
<input type="checkbox"/> Liquid <input type="checkbox"/> Powder	Volume <10 %	<input type="checkbox"/> 70°-99°F.	<input type="checkbox"/> > 200°F.	<input type="checkbox"/> Bi-Layered
<input type="checkbox"/> Compressed Gas		<input type="checkbox"/> 100°-139°F.	<input checked="" type="checkbox"/> No Flash	<input checked="" type="checkbox"/> Homogenous
pH	Solids	Specific Gravity	Odor	Color
<input type="checkbox"/> < 2 <input type="checkbox"/> 10.1-12.4	<input checked="" type="checkbox"/> By Volume	2.35	<input type="checkbox"/> None <input type="checkbox"/> Strong	white
<input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5	Total >90 %	Density:	<input checked="" type="checkbox"/> Mild	
<input type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact N/A	Dissolved %	<input type="checkbox"/> Liquid lbs./gal.	Describe chlorine	
	Suspended %	<input type="checkbox"/> Solid lbs./ft. ³		

METALS	WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)
<input type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP)	Other (Specify):
Arsenic (As) <u>NT</u>	H ₂ O <u>5-10</u> %
Barium (Ba) <u>NT</u>	HCl _____ %
Cadmium (Cd) <u>NT</u>	H ₂ SO ₄ _____ %
Chromium (Cr) <u>NT</u>	HNO ₃ _____ %
Copper (Cu) <u>NT</u>	NaOH _____ %
Lead (Pb) <u>NT</u>	Phenols _____ %
	Benzene _____ %
REACTIVES AND OTHER WASTES (PPM)	Calcium hypochlorite <u>50-60</u> %
Amines <u>NT</u>	Calcium sulfate <u>30-45</u> %
Cyanides <u>NT</u>	
Sulfides <u>NT</u>	
Mercury (Hg) <u>NT</u>	
Nickel (Ni) <u>NT</u>	
Selenium (Se) <u>NT</u>	
Silver (Ag) <u>NT</u>	
Zinc (Zn) <u>NT</u>	
Nondetectable <u>NT</u>	
PCB's <u>NT</u>	
HexChrome <u>NT</u>	
HOC <u>NT</u>	

SHIPPING & HANDLING INFORMATION	HAZARDOUS PROPERTIES
Proper Shipping Name: <u>Waste calcium hypochlorite hydrated "CHLORINE"</u>	U.S. EPA Hazardous Codes <u>D001</u>
DOT Hazard Class: <u>5.1</u>	Washington State Codes: <u>WT02</u>
I.D. #: <u>UN2880</u>	State Designation <u>DW</u> <input checked="" type="checkbox"/> EHW <input type="checkbox"/> Biological Characteristics <input type="checkbox"/>
PG II <u>RQ</u> Calcium hypochlorite-10% <u>45</u>	Is Waste Product: <input type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input type="checkbox"/> None of Above <input checked="" type="checkbox"/> Other
Poison: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> EXEMPT, <input type="checkbox"/> TSCA, <input type="checkbox"/> CERCLA, <input type="checkbox"/> HOUSEHOLD, <input type="checkbox"/> DEBRIS, <input type="checkbox"/> SOIL
Inhalation Hazard: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> OSHA/WISHA CARCINOGEN <input type="checkbox"/> WASTE WATER <input checked="" type="checkbox"/> NON WASTE WATER
Dangerous When Wet: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Subject to Land Disposal Restrictions (If marked fill out notification)
Marine Pollutant: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Subject to NESHAPS (benzene) Subpart FF (If yes, cannot accept)
DOT Shipping Container: <u>Drum</u> Volume <u>10 G</u> Bulk <input type="checkbox"/> Volume _____	Special Handling Requirements: <u>ST3L</u>
Other <input type="checkbox"/> Type _____ Volume _____	
Projected: <u>10 G</u> Gals/lbs per <input type="checkbox"/> mo <input checked="" type="checkbox"/> yr.	
Additional Labels Required: <u>MARINE POLLUTANT</u>	

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael E. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review	Chemical Nature	Date Reviewed	Regulatory Review
<u>Michael Scheldorf</u>	<input type="checkbox"/> O <input checked="" type="checkbox"/> I <input type="checkbox"/> ON	<u>8-30-94</u>	<u>Michael E. Malson</u>
<u>SATC T38C</u>			Status: <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending

B 8/24/94

Generator U.S. EPA ID: WA 00000000000000000000	Sample Number Generator Knowledge
Generator Name and Facility Address USA251 USArmy USACE Northeast Cape Kangukhsam MT 52.25 miles Savoonga. AK 99769	Billing Address USA251 USArmy USACE Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898
SIC CODE: 9711	
Technical Contact CPT M. Malson	Title Project Eng. Phone (907)353-6131
Business Contact Ken Larson	Title Resident Eng. Phone (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Electric (switches) articles with PCB >500 ppm [TSCA Landfill]

Process Generating Waste
Military site restoration

Physical State At 70°F. <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume _____ %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input type="checkbox"/> 100°-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input checked="" type="checkbox"/> Closed Cup <input type="checkbox"/> > 200°F. <input type="checkbox"/> Open Cup <input checked="" type="checkbox"/> No Flash Exact _____	Layers <input checked="" type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input type="checkbox"/> < 2 <input type="checkbox"/> 10.1-12.4 <input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5 <input checked="" type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact _____	Solids <input type="checkbox"/> By Volume Total 100 % Dissolved _____ % Suspended _____ %	Specific Gravity Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input checked="" type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe _____	Color various

METALS

Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As) NT	Mercury (Hg) NT
Barium (Ba) NT	Nickel (Ni) NT
Cadmium (Cd) NT	Selenium (Se) NT
Chromium (Cr) NT	Silver (Ag) NT
Copper (Cu) NT	Zinc (Zn) NT
Lead (Pb) NT	Nondetectable NT

REACTIVES AND OTHER WASTES (PPM)

Amines NT	PCB's >500
Cyanides NT	HexChrome NT
Sulfides NT	HOC >500

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

Other (Specify):

H ₂ O _____ %	Electrical switches 100
HCl _____ %	
H ₂ SO ₄ _____ %	
HNO ₃ _____ %	
NaOH _____ %	
Phenols _____ %	
Benzene _____ %	

SHIPPING & HANDLING INFORMATION

Proper Shipping Name: Polychlorinated biphenyls

DOT Hazard Class: 9 I.D. #: UN2315

PGI RQ PCB's-1P ERG 31

Poison Yes No Inhalation Hazard Yes No Dangerous When Wet Yes No

Marine Pollutant Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____

Other Type CW Volume _____

Projected: 3 each Gals/lbs per mo yr.

Additional Labels Required:
Large PCB marker, Marine Pollutant PCB-BC (ESII #11135018)

HAZARDOUS PROPERTIES

U.S. EPA Hazardous Codes TSCA PCB1

Washington State Codes _____

State Designation DW EHW Biological Characteristic

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, SC

OSHA/WISHA CARCINOGEN WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)

Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: _____

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael F. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review Michael W. Wulfsberg	Chemical Nature <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> Other	Date Reviewed 8-30-94	Regulatory Review Amy Bakowski
Status <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending		Date 8/24/94	

Generator U.S. EPA ID, Sample Number, Generator Name and Facility Address, Billing Address, Technical Contact, Business Contact, ISIC CODE, Title, Phone

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name, Process Generating Waste, Physical State At 70°F, Free Liquids at 70°F, BP < 95°F, Flash Point, Layers, pH, Solids, Specific Gravity, Odor, Color

METALS table with columns for Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc, Nondetectable, Amines, Cyanides, Sulfides, PCB's, HexChrome, HOC

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total) table with columns for H2O, HCl, H2SO4, HNO3, NaOH, Phenols, Benzene, Oxalic acid

SHIPPING & HANDLING INFORMATION: Proper Shipping Name, DOT Hazard Class, PG, RQ, ERG, Poison, Marine Pollutant, DOT Shipping Container, Other Type, Projected, Additional Labels Required

HAZARDOUS PROPERTIES: U.S. EPA Hazardous Codes, Washington State Codes, State Designation, Is Waste Product, Subject to Land Disposal Restrictions, Special Handling Requirements

GENERATOR CERTIFICATION STATEMENT: I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste...

Technical Review, Chemical Nature, Date Reviewed, Regulatory Review, Status, Approved/Permitted, Denied, Pending

Generator U.S. EPA ID WA 251 100 120 P 13 R F	Sample Number MSDS, NRA660-3/NEC115	
Generator Name and Facility Address USA251 USArmy USACE Northeast Cape Kangukhsam MT 52.25 miles Savoonga, AK 99789	Billing Address USA251 USArmy USACE Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898	
SIC CODE:		
Technical Contact CPT M. Malson	Title Project Eng.	Phone (907)353-6131
Business Contact Ken Larson	Title Resident Eng.	Phone (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Sodium hydroxide (WA STATE 0002 ONLY)

Process Generating Waste
Military site restoration

Physical State At 70°F. <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume _____ %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input type="checkbox"/> 100°-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input type="checkbox"/> > 200°F. <input checked="" type="checkbox"/> No Flash	Closed Cup <input type="checkbox"/> Open Cup Exact _____	Layers <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Homogenous
pH <input type="checkbox"/> < 2 <input type="checkbox"/> > 2-4 <input type="checkbox"/> 4.1-10	Solids <input checked="" type="checkbox"/> By Volume Total 100 % Dissolved _____ % Suspended _____ %	Specific Gravity Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input checked="" type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe _____	Color white	

METALS <input type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP)	WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)																																																				
<table border="0"> <tr><td>Arsenic (As)</td><td>NT</td><td>Mercury (Hg)</td><td>NT</td></tr> <tr><td>Ba (Ba)</td><td>NT</td><td>Nickel (Ni)</td><td>NT</td></tr> <tr><td>Cadmium (Cd)</td><td>NT</td><td>Selenium (Se)</td><td>NT</td></tr> <tr><td>Chromium (Cr)</td><td>NT</td><td>Silver (Ag)</td><td>NT</td></tr> <tr><td>Copper (Cu)</td><td>NT</td><td>Zinc (Zn)</td><td>NT</td></tr> <tr><td>Lead (Pb)</td><td>NT</td><td>Nondetectable</td><td>NT</td></tr> </table>	Arsenic (As)	NT	Mercury (Hg)	NT	Ba (Ba)	NT	Nickel (Ni)	NT	Cadmium (Cd)	NT	Selenium (Se)	NT	Chromium (Cr)	NT	Silver (Ag)	NT	Copper (Cu)	NT	Zinc (Zn)	NT	Lead (Pb)	NT	Nondetectable	NT	<table border="0"> <tr><td>H₂O</td><td>_____ %</td><td>Sodium hydroxide</td><td>96 %</td></tr> <tr><td>HCl</td><td>_____ %</td><td>Sodium carbonate</td><td>2 %</td></tr> <tr><td>H₂SO₄</td><td>_____ %</td><td>Inert</td><td>2 %</td></tr> <tr><td>HNO₃</td><td>_____ %</td><td></td><td></td></tr> <tr><td>NaOH</td><td>_____ %</td><td></td><td></td></tr> <tr><td>Phenols</td><td>_____ %</td><td></td><td></td></tr> <tr><td>Benzene</td><td>_____ %</td><td></td><td></td></tr> </table>	H ₂ O	_____ %	Sodium hydroxide	96 %	HCl	_____ %	Sodium carbonate	2 %	H ₂ SO ₄	_____ %	Inert	2 %	HNO ₃	_____ %			NaOH	_____ %			Phenols	_____ %			Benzene	_____ %		
Arsenic (As)	NT	Mercury (Hg)	NT																																																		
Ba (Ba)	NT	Nickel (Ni)	NT																																																		
Cadmium (Cd)	NT	Selenium (Se)	NT																																																		
Chromium (Cr)	NT	Silver (Ag)	NT																																																		
Copper (Cu)	NT	Zinc (Zn)	NT																																																		
Lead (Pb)	NT	Nondetectable	NT																																																		
H ₂ O	_____ %	Sodium hydroxide	96 %																																																		
HCl	_____ %	Sodium carbonate	2 %																																																		
H ₂ SO ₄	_____ %	Inert	2 %																																																		
HNO ₃	_____ %																																																				
NaOH	_____ %																																																				
Phenols	_____ %																																																				
Benzene	_____ %																																																				
REACTIVES AND OTHER WASTES (PPM) Amines: NT Cyanides: NT Sulfides: NT PCB's: NT HexChrome: NT HOC: NT	Other (Specify):																																																				

SHIPPING & HANDLING INFORMATION	HAZARDOUS PROPERTIES
Proper Shipping Name: Waste sodium hydroxide, solid	U.S. EPA Hazardous Codes _____
DOT Hazard Class: 8 I.D. #: UN1823	Washington State Codes WT02 D002
PG II RQ D002-100P ERG 60	State Designation DW <input checked="" type="checkbox"/> EHW <input type="checkbox"/> <input type="checkbox"/> Biological Characteristics
Poison <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Inflammation Hazard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Dangerous When Wet <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is Waste Product: <input type="checkbox"/> Ignitable <input checked="" type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input type="checkbox"/> None of Above <input type="checkbox"/> Other
Marine Pollutant <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> EXEMPT, <input type="checkbox"/> TSCA, <input type="checkbox"/> CERCLA, <input type="checkbox"/> HOUSEHOLD, <input type="checkbox"/> DEBRIS, <input type="checkbox"/> SOIL
DOT Shipping Container: Drum <input checked="" type="checkbox"/> Volume Bulk <input type="checkbox"/> Volume	<input type="checkbox"/> OSHA/WISHA CARCINOGEN <input type="checkbox"/> WASTE WATER <input checked="" type="checkbox"/> NON WASTE WATER
Other <input type="checkbox"/> Type _____	<input checked="" type="checkbox"/> Subject to Land Disposal Restrictions (if marked fill out notification)
Projected: _____ Gals/lbs per _____ mo _____ yr.	<input type="checkbox"/> Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)
Additional Labels Required: _____	Special Handling Requirements: _____

GENERATOR CERTIFICATION STATEMENT
I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael J. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review <u>Michael Scheldorf</u>	Chemical Nature <input type="checkbox"/> O <input checked="" type="checkbox"/> I <input type="checkbox"/> M	Date Reviewed 9-7-94	Regulatory Review <u>Michael J. Malson</u>
Status <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending		B 8/18/94	

Generator U.S. EPA ID: WA9260-L-NRC105 Sample Number: 5
 Generator Name and Facility Address: USA251 USArmy USACK Northeast Cape Kangukheam MT 52.25 miles Savoonga, AK 99769
 Billing Address: USA251 USArmy USACK Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898
 SIC CODE: 9411

Technical Contact: CPT M. Malson Title: Project Eng. Phone: (907)353-8131
 Business Contact: Ken Larson Title: Resident Eng. Phone: (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name: Aluminum chloride

Process Generating Waste: Military site restoration

Physical State At 70°F. <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume <u>100</u> %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input type="checkbox"/> 100°-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input type="checkbox"/> Closed Cup <input type="checkbox"/> > 200°F. <input type="checkbox"/> Open Cup <input checked="" type="checkbox"/> No Flash Exact	Layers <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input checked="" type="checkbox"/> ≤ 2 <input type="checkbox"/> 10.1-12.4 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> ≥ 12.5 <input type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact <u>0</u>	Solids <input type="checkbox"/> By Volume Total <u>0</u> % Dissolved _____ % Suspended _____ %	Specific Gravity <u>2.14</u> Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe _____	Color <u>clear</u>

METALS:
 Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As)	<u>NT</u>	Mercury (Hg)	<u>NT</u>
Barium (Ba)	<u>NT</u>	Nickel (Ni)	<u>NT</u>
Cadmium (Cd)	<u>NT</u>	Selenium (Se)	<u>NT</u>
Chromium (Cr)	<u>NT</u>	Silver (Ag)	<u>NT</u>
Copper (Cu)	<u>NT</u>	Zinc (Zn)	<u>NT</u>
Lead (Pb)	<u>NT</u>	Nondetectable	<u>NT</u>

REACTIVES AND OTHER WASTES (PPM)

Amines	<u>NT</u>	PCB's	<u>NT</u>
Cyanides	<u>NT neg.</u>	HexChrome	<u>NT neg.</u>
Sulfides	<u>NT neg.</u>	HOC	<u>NT</u>

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

H ₂ O	<u>balance</u> %	Aluminum chloride	<u>10-50</u> %
HCl	_____ %		_____ %
H ₂ SO ₄	_____ %		_____ %
HNO ₃	_____ %		_____ %
NaOH	_____ %		_____ %
Phenols	_____ %		_____ %
Benzene	_____ %		_____ %

Other (Specify): _____

SHIPPING & HANDLING INFORMATION

Proper Shipping Name: Waste aluminum chloride solution

DOT Hazard Class: 3 I.D. #: UN2581

PG III RQ 60

Poison Yes No Inhalation Hazard Yes No Dangerous When Wet Yes No
 Marine Pollutant Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____
 Other Type _____ Volume _____
 Projected: _____ Gals/lbs per mo yr.

Additional Labels Required: _____

HAZARDOUS PROPERTIES

U.S. EPA Hazardous Codes: D002

Washington State Codes: W102

State Designation: DW EHW Biological Characteristics

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, SOIL
 OSHA/WISHA CARCINOGEN, WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)
 Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: HWPA

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael F. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review: Michael Schindorf Chemical Nature: O I On 9-2-94
 Regulatory Review: Michael F. Malson Status: Approved/Permitted Denied Pending
SMC T31 8/18/94

NPCA 1-85 (OSHA 174)

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

Ameron Protective Coatings
201 North Berry Street
Brea, CA 92622-1020

Information: (714) 529-1951 (N. Elina)
Emergency: (800) 424-9300 (CHEMTEC)
Preparation Date: 02-25-94
Supersedes: 12-28-93

SECTION 1 -- PRODUCT IDENTIFICATION

TRADE NAME: DIMETCOTE
PRODUCT CLASS: INORGANIC ZINC
PRODUCT NO: 9 PWR

HMIS/NFPA: N2F0R1
FOR INDUSTRIAL USE ONLY
HEALTH: WARNING

SECTION 2 -- HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NO.	% BY WT	EXPOSURE LIMITS				VP mm Hg @ 68 F	TOXICITY	
			OSHA PEL ppm	ACGIH TLV (TWA) ppm	mg/m3	mg/m3		LD50 g/kg	LCSO ppm
ZINC DUST (SARA)	7440-66-6	100	dra	5 dra	5 dra	na	dra	dra	
+ IRON OXIDE	1309-37-1	5	dra	5 dra	5 dra	na	dra	dra	

(Fume STEL 10mg/m3, Pb** 90.005%
Cd** 90.005% as impurities)
(AS FE FUME)

* Pigment content is dependent on color.

** CALIF. TITLE 26: 22-12000 (PROP 65)

Contains toxic chemical subject to reporting requirements of SARA and CERCLA (40CFR 302,355,372)

SECTION 3 -- PHYSICAL DATA

BOILING POINT: na VAPOR DENSITY: na
VOLATILE VOLUME % : 0 EVAPORATION RATE: na
WT PER GAL: 58.1-58.8 LBS
APPEARANCE: Powder ODOR: NONE
SOLUBILITY IN WATER: na

SECTION 4 -- FIRE AND EXPLOSION DATA

FLAMMABILITY: OSHA: Not applicable FLASH POINT: na LFS: NONE
DOT: Not applicable LEL: na UEL: dra
EXTINGUISHING MEDIA: Foam, CO2, dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Wear self-contained breathing apparatus. Closed containers may explode when exposed to extreme heat. Isolate from heat, electrical equipment, sparks and open flame. Avoid water. Generates a gas. Dry dust can create dust explosion.

FIREFIGHTING PROCEDURES: Wear full protective equipment, self-contained breathing apparatus.

PRODUCT NO: 9 PWR

MATERIAL SAFETY DATA SHEET

Page: 2

SECTION 5 -- HEALTH HAZARD DATA

ENTRY ROUTES: Inhalation and skin contact.

MEDICAL CONDITIONS AGGRAVATED: None known.

EXPOSURE EFFECTS: Dust can be harmful. Irritating to eyes, skin, nose and throat. Excessive inhalation can cause headache, nausea, or dizziness. Can be harmful if swallowed. Overexposure can damage lungs. Welding fumes can cause metal fume fever.

EMERGENCY AND FIRST AID PROCEDURES: Overexposure to dust - provide fresh air; if breathing labored, give oxygen or artificial respiration. For skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 15 minutes and get medical attention. If swallowed, drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center IMMEDIATELY. Treat symptomatically.

SECTION 6 -- REACTIVITY DATA

STABILITY: Stable CONDITIONS TO AVOID: Heat, open flame, arc or sparks.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, acids, alkalies. Water.

HAZARDOUS DECOMPOSITION PRODUCT BY FIRE, BURNING OR WELDING: CO and CO₂. Zinc oxide fumes. Iron oxide fumes.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 7 -- SPILL OR LEAK PROCEDURES

SPILLS, LEAKS: Avoid breathing of dust. Sweep up. Place in separate container. Do not place unreacted, mixed material in a sealed scrap receptacle containing water or other mixed materials as gassing may cause container to burst. Eliminate all sources of ignition.

WASTE DISPOSAL: In separate, closed metal container in accordance with all applicable regulations.

EPA WASTE NO: D003

SECTION 8 -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA certified respirator. For specific conditions, refer to current NIOSH Pocket Guide to Chemical Hazards. Use air-line respirators in confined or restricted ventilation areas. Refer to 29 CFR, OSHA parts 1910 and 1915, for coating operations.

VENTILATION: Sufficient ventilation, in volume and pattern, should be provided to keep air contaminant concentrations below TLV limit. Remove welding or flame cutting decomposition products. Refer to 29 CFR, OSHA parts 1910 and 1915, for coating operations.

PROTECTIVE GLOVES: Neoprene, other suitable impervious materials for solvent(s).

EYE PROTECTION: Splash-proof goggles or face shield.

OTHER PROTECTIVE EQUIPMENT FOR APPLICATION OR CLEANUP: Full protective clothing.

HYGIENIC PRACTICES: Wash thoroughly before eating, smoking or using washroom. Launder contaminated clothing before reuse.

SECTION 9 -- SPECIAL PRECAUTIONS

HANDLING AND STORING: Keep container closed, upright when not in use. Store in cool, dry, well-ventilated area. Avoid storage temperatures above 100 degrees Fahrenheit. Prohibit smoking where zinc is stored.

OTHER PRECAUTIONS: Do not take internally. Avoid prolonged breathing of dust or contact with skin and eyes. Avoid water contamination, moisture generates a gas. Dry dust can create dust explosion. Do not weld or flame cut an empty container. Ground containers when pouring.

<<Z Page Document>>

Generator U.S. EPA ID <u>AK1912</u>	Sample Number <u>7930-00-855-8875-NWES0-5-NRC-106</u>	Billing Address <u>940807.0E</u>	
Generator Name and Facility Address <u>USA251 USArmy USACK Northeast Cape Kangukhsam MT 52.25 miles Savoonga, AK 99769</u>		<u>USA251 USArmy USACK Northeast Cape P.O. Box 890 Anchorage, AK 99506-0898</u>	
SIC CODE: <u>9711</u>			
Technical Contact <u>CPT M. Malson</u>	Title <u>Project Eng.</u>	Phone <u>(907)353-6131</u>	
Business Contact <u>Ken Larson</u>	Title <u>Resident Eng.</u>	Phone <u>(907)353-7550</u>	

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name
Septic tank cleaner enzymes

Process Generating Waste
Military site restoration

Physical State At 70°F. <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Compressed Gas	Free Liquids at 70°F. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume _____ %	BP < 95°F <input type="checkbox"/> < 70°F. <input type="checkbox"/> 70°-99°F. <input type="checkbox"/> 100°-139°F.	Flash Point <input type="checkbox"/> 140°-200°F. <input type="checkbox"/> Closed Cup <input type="checkbox"/> > 200°F. <input type="checkbox"/> Open Cup <input checked="" type="checkbox"/> No Flash Exact _____	Layers <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Homogenous
pH <input type="checkbox"/> < 2 <input type="checkbox"/> 10.1-12.4 <input type="checkbox"/> > 2-4 <input type="checkbox"/> ≥ 12.5 <input checked="" type="checkbox"/> 4.1-10 <input type="checkbox"/> Exact _____	Solids <input checked="" type="checkbox"/> By Volume Total <u>100</u> % Dissolved _____ % Suspended _____ %	Specific Gravity <u>1.7</u> Density: <input type="checkbox"/> Liquid lbs./gal. <input type="checkbox"/> Solid lbs./ft. ³	Odor <input type="checkbox"/> None <input type="checkbox"/> Strong <input type="checkbox"/> Mild Describe _____	Color <u>tan</u>

METALS <input checked="" type="checkbox"/> Toxicity Characteristic Leaching Procedure (TCLP)	WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)
Arsenic (As) <u>NT < 0.5</u> Barium <u>NT 0.12</u> Cadm. (Cd) <u>NT < 0.1</u> Chromium (Cr) <u>NT 0.14</u> Copper (Cu) <u>NT 0.11</u> Lead (Pb) <u>NT < 0.1</u> Mercury (Hg) <u>NT < 0.5</u> Nickel (Ni) <u>NT 0.11</u> Selenium (Se) <u>NT < 0.5</u> Silver (Ag) <u>NT < 0.1</u> Zinc (Zn) <u>NT 1.1</u> Nondetectable <u>NT</u> REACTIVES AND OTHER WASTES (PPM) Amines <u>NT</u> PCB's <u>NT</u> Cyanides <u>NT neg.</u> HexChrome <u>NT neg.</u> Sulfides <u>NT neg.</u> HOC <u>NT < 100</u>	Other (Specify): H ₂ O <u>0</u> % Enzyme Product <u>100</u> % HCl _____ % H ₂ SO ₄ _____ % HNO ₃ _____ % NaOH _____ % Phenols <u>neg.</u> % Benzene _____ %

SHIPPING & HANDLING INFORMATION	HAZARDOUS PROPERTIES
Proper Shipping Name: <u>Non-hazardous waste, solid</u>	U.S. EPA Hazardous Codes _____
DOT Hazard Class: _____ I.D. #: _____	Washington State Codes _____
PG <u>RQ</u> ERG <u>1</u>	State Designation DW <input type="checkbox"/> EHW <input type="checkbox"/> <input type="checkbox"/> Biological Characteristics
Poison <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Inhalation Hazard <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Dangerous When Wet <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is Waste Product: <input type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input checked="" type="checkbox"/> None of Above <input type="checkbox"/> Other
Airline Pollutant <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> EXEMPT, <input type="checkbox"/> TSCA, <input type="checkbox"/> CERCLA, <input type="checkbox"/> HOUSEHOLD, <input type="checkbox"/> DEBRIS, <input type="checkbox"/> SOIL
DOT Shipping Container: <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Volume _____ Bulk <input type="checkbox"/> Volume _____	<input type="checkbox"/> OSHA/WISHA CARCINOGEN <input type="checkbox"/> WASTE WATER <input checked="" type="checkbox"/> NON WASTE WATER
Other <input type="checkbox"/> Type _____ Volume _____	<input type="checkbox"/> Subject to Land Disposal Restrictions (if marked fill out notification)
Projected: _____ Gals/lbs per <input type="checkbox"/> mo <input type="checkbox"/> yr.	<input type="checkbox"/> Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)
Additional Labels Required: _____	Special Handling Requirements: _____ <u>NRS</u>

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

By: Michael J. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review <u>W. Schubert</u>	Chemical Nature <input type="checkbox"/> O <input type="checkbox"/> I <input checked="" type="checkbox"/> OR	Date Reviewed <u>9-8-94</u>	Regulatory Review <u>Michael J. Malson</u>
Status <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending		<u>B 9/2/94</u>	

Generator U.S. EPA ID, Sample Number, Generator Name and Facility Address, Billing Address, SIC CODE, Technical Contact, Business Contact

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name, Process Generating Waste, Physical State at 70°F, Free Liquids at 70°F, BP < 95°F, Flash Point, Layers, pH, Solids, Specific Gravity, Density, Odor, Color

METALS

WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

Toxicity Characteristic Leaching Procedure (TCLP), Arsenic (As), Br (Ba), C (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), REACTIVES AND OTHER WASTES (PPM), Amines, Cyanides, Sulfides

Other (Specify): H2O, HCl, H2SO4, HNO3, NaOH, Phenols, Benzene, Soap, *Sodium tetraborate, *Sodium sesquicarbonate, *Sodium salts of coconut & tallow fatty acids, *Lanolin, *As const. of product

SHIPPING & HANDLING INFORMATION

HAZARDOUS PROPERTIES

Proper Shipping Name, DOT Hazard Class, PG, RO, ERG, Poison, Marine Pollutant, DOT Shipping Container, Other Type, Projected, Additional Labels Required

U.S. EPA Hazardous Codes, Washington State Codes, State Designation, Biological Characteristics, Is Waste Product, EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, OSHA/WISHA CARCINOGEN, WASTE WATER, NON WASTE WATER, Subject to Land Disposal Restrictions, Subject to NESHAPS, Special Handling Requirements

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste.

Signature: Michael F. Malson, Title: Project Engineer, Date: 19 Aug 94

NWES INC. USE ONLY, Technical Review, Chemical Nature, Date Reviewed, Regulatory Review, Status, Approved/Permitted, Denied, Pending

Generator U.S. EPA ID: AK0010012281305 Sample Number: NR650-1A-6, 9408090X

Generator Name and Facility Address: USA251 USArmy USACE Northeast Cape
Kanguksam MT 52.25 miles
Savoonga, AK 99769

Billing Address: USA251 USArmy USACE Northeast Cape
P.O. Box 890
Anchorage, AK 99506-0898

SIC CODE: 9711

Technical Contact: CPT M. Malson Title: Project Eng. Phone: (907)353-6131

Business Contact: Ken Larson Title: Resident Eng. Phone: (907)353-7550

WASTE PRODUCT DESCRIPTION & CHARACTERISTICS

Waste Product Name: Soap with sodium tetraborate, sodium sesquicarbonate, sodium salts of coconut and tallow fatty acids, lanolin as constituents of product

Process Generating Waste: Military site restoration

Physical State At 70°F: Solid Sludge Liquid Powder Compressed Gas

Free Liquids at 70°F: Yes No Volume: 100 %

BP < 95°F: < 70°F 70°-99°F 100°-139°F

Flash Point: 140°-200°F > 200°F No Flash

Layers: Multilayered Bi-Layered Homogenous

pH: < 2 > 2-4 4.1-10 10.1-12.4 > 12.5 Exact

Solids: By Volume Total _____ % Dissolved _____ % Suspended _____ %

Specific Gravity: _____ Density: _____

Odor: None Strong Mild Describe: _____

Color: _____

METALS WASTE PRODUCT CHEMICAL COMPOSITION (Account For 100% of Total)

Toxicity Characteristic Leaching Procedure (TCLP)

Arsenic (As)	<u>NT</u>	Mercury (Hg)	<u>NT</u>
Barium (Ba)	<u>NT</u>	Nickel (Ni)	<u>NT</u>
Cadmium (Cd)	<u>NT</u>	Selenium (Se)	<u>NT</u>
Chromium (Cr)	<u>NT</u>	Silver (Ag)	<u>NT</u>
Copper (Cu)	<u>NT</u>	Zinc (Zn)	<u>NT</u>
Lead (Pb)	<u>NT</u>	Nondetectable	<u>NT</u>

REACTIVES AND OTHER WASTES (PPM)

Amines	<u>NT</u>	PCB's	<u>NT</u>
Cyanides	<u>NT</u>	HexChrome	<u>NT</u>
Sulfides	<u>NT</u>	HOC	<u>NT</u>

Other (Specify):

H ₂ O	%	<u>Soap</u>	<u>100</u>
HCl	%	<u>*Sodium tetraborate</u>	
H ₂ SO ₄	%	<u>*Sodium sesquicarbonate</u>	
HNO ₃	%	<u>*Sodium salts of coconut</u>	
NaOH	%	<u>& tallow fatty acids</u>	
Phenols	%	<u>*Lanolin</u>	
Benzene	%	<u>*As const. of products</u>	

SHIPPING & HANDLING INFORMATION HAZARDOUS PROPERTIES

Proper Shipping Name: Liquids, n.e.s.
(sodium sesquicarbonate)

DOT Hazard Class: 8 I.D. # 141719

HAZARD: ERG 80

Personnel: Yes No Inhalation Hazard: Yes No Dangerous When Wet: Yes No

Organic Pollutant: Yes No

DOT Shipping Container: Drum Volume _____ Bulk Volume _____

Other: Type _____ Volume _____

Projected: _____ Gals/lbs per mo yr.

Additional Labels Required: _____

U.S. EPA Hazardous Codes: _____

Washington State Codes: _____

State Designation: DW EHW Biological Characteristics:

Is Waste Product: Ignitable Corrosive Reactive None of Above Other

EXEMPT, TSCA, CERCLA, HOUSEHOLD, DEBRIS, OSHA/WISHA CARCINOGEN WASTE WATER NON WASTE WATER

Subject to Land Disposal Restrictions (if marked fill out notification)

Subject to NESHAPS (benzene) Subpart FF (if yes, cannot accept)

Special Handling Requirements: APC (NM)

GENERATOR CERTIFICATION STATEMENT

I hereby certify, as an authorized representative of the Generator named above, that NWES has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste. I further certify that all information in this and the attached documents is true and accurate.

Signature: Michael J. Malson Title: Project Engineer Date: 19 Aug 94

NWES INC. USE ONLY

Technical Review: <u>[Signature]</u>	Chemical Nature: <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 0/1	Date Reviewed: <u>9-7-94</u>	Regulatory Review: <u>[Signature]</u>
Status: <input checked="" type="checkbox"/> Approved/Permitted <input type="checkbox"/> Denied <input type="checkbox"/> Pending			



ENVIROSAFE SERVICES OF IDAHO, INC.

September 7, 1994

Northwest Enviroservice
429 Industrial Way
Anchorage, AK 99501

Attention: Larry Wilkinson

SUBJECT: ESII Approval Number: 16512001

Waste Stream: US Army USACE, Northeast Cape Project-Transformers Above 500 PPM-Drained.

The above listed waste stream has been approved for acceptance at Envirosafe Services of Idaho, Inc. (ESII). Enclosed you will find a finalized copy of your Waste Product Questionnaire. Please update your records.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of 8-31-95.

Your shipment of the waste profiled by the above WSID constitutes your acceptance of all Terms and Conditions listed as an Addendum to your Agreement/Contract. If the regulations change, or the waste stream itself changes, it is your responsibility to inform ESII by providing us with a letter or submittal of a new profile and current analysis. This will eliminate the possibility of a load rejection because the profile does not describe the waste stream as received.

A. All waste material must be packaged, labeled and manifested in strict accordance with all applicable EPA and DOT requirements. The above WSID must be marked on each drum or unit. **Please note that labpack shipments cannot be accepted until packing lists have been reviewed and approved by ESII.**

B. To schedule a delivery call Envirosafe's Receiving Department at least one week prior to your anticipated shipping date. Unscheduled loads are subject to refusal at our gate. Scheduling hours are 7:30 a.m. to 4:00 p.m. MST, Monday through Friday at 1-800-274-1516.

If you have questions or need additional information call Client Services at 1-800-274-1516.

Sincerely,

Michael A. Sorce
Michael A. Sorce
Manager, Client Services

PCB GENERATOR'S WASTE PRODUCT QUESTIONNAIRE
(Polychlorinated Biphenyls)

A. GENERATOR INFORMATION

1. Generator U.S. Army USACE, Northeast Cape Project
 Address Kangukhsam Mountain P.O. Box 890
 City/State Anchorage, AK ZIP 99506-0898
 Tech. Contact _____ TEL _____

U.S. EPA IDENTIFICATION NUMBER
AK0000228395

2. Billing/Broker Northwest EnviroService, Inc
 Address 1813 E. First 427 Commercial Unit 4
 City/State Anchorage, AK ZIP 99501
 Billing Contact Germain Eames TEL (907) 272-9007

EnviroSafe Services Only

APP#

WSID 16512001

CUST # 0

DIRECT

BILLING BROKER

Sales Zone Code

TAX YES NO

RCRA WASTE

B. WASTE STREAM - USE SEPARATE QUESTIONNAIRE FOR EACH CATEGORY IN SECTIONS 1-12.
 NOTE: ANY LIQUIDS BELOW 500 PPM MUST HAVE A LAB ANALYSIS OF MATERIAL PRIOR TO ANY TREATMENT.

<input type="checkbox"/> 1. Transformer Below 500 PPM <input type="checkbox"/> Full <input type="checkbox"/> Drained	<input checked="" type="checkbox"/> 2. Transformer Above 500 PPM <input type="checkbox"/> Full <input checked="" type="checkbox"/> Drained <input type="checkbox"/> Drained and Flushed
<input type="checkbox"/> 3. Liquid - above 500 PPM - Flash Point Above 200 °F Type of Material: _____	<input type="checkbox"/> 4. Liquid - Above 500 PPM - Flash Point Below 200 °F Type of Material: _____
<input type="checkbox"/> 5. Liquid - Below 500 PPM - Flash Point Above 200 °F Type of Material: _____	<input type="checkbox"/> 6. Liquid - Below 500 PPM - Flash Point Below 200 °F Type of Material: _____
<input type="checkbox"/> 7. Capacitor - Large (over 3 lbs of liquid or 100 cu. in.) All Large Capacitors are Incinerated. Are They Leaking? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 8. Capacitors - Small (Less than 3 lbs of liquid or 100 cu. in.) Incineration <input type="checkbox"/> Landfill <input type="checkbox"/>
<input type="checkbox"/> 9. PCB Solids <input type="checkbox"/> Dirt - Soil - & Debris <input type="checkbox"/> Clothing, Rags, Etc. <input type="checkbox"/> Empty PCB <input type="checkbox"/> Other _____	<input type="checkbox"/> 10. PCB Lab Pack Are They Leaking? <input type="checkbox"/> Yes <input type="checkbox"/> No Type of Containers in the Drum _____
<input type="checkbox"/> 11. Other Articles - Liquids Below 500 PPM Specific Type and Explain _____ Sealed Unit <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 12. Other Articles - Liquids Above 500 PPM Specific Type and Explain _____ Sealed Unit <input type="checkbox"/> Yes <input type="checkbox"/> No

C. GENERAL INFORMATION

1. Process generating this waste Military Installation Restoration

2. Present volume 16 transformers Month of shipment (if generic write "ongoing") _____

3. Liquids No (Check no or complete the following): Viscosity: Low Medium High
 Materials other than PCB oil: H₂O _____ % Solids _____ % Other _____ % (Specify)

4. Does this material contain radioactive, pyrophoric, shock sensitive, or explosive materials? Yes No

5. Have any of the materials come in contact with or do they contain any RCRA regulated materials?
 Yes No Note: If yes, please explain on a separate sheet and submit a RCRA WPC also.

6. Is this waste regulated under a Land Disposal Ban as promulgated in CFR 40 part 268?
 Yes No Note: If yes, a RCRA WPC is required to be submitted.

7. Is this material the result of a spill? Yes No Varies load to load (Indicate spill material on PCB Control Sheet).

8. Has this waste been treated by:
 Solidification (Solely using absorbents)
 Stabilization (Irreversible chemical transformation)
 Not Applicable

9. If solidified, list all the absorbents used: _____

10. If stabilized, list all the stabilization additives used: _____

11. Does this waste pass the EPA specified Paint Filter Test? Yes No

12. If this waste has been stabilized, have you demonstrated that chemical stabilization will occur or that the stabilized waste will meet a Pocket Penetration Test of 1.2 Tons/Square foot?
 Yes No Not Applicable If yes, attach demonstration or test data

- 1. D.O.T. Hazardous Material? Yes No
- 2. D.O.T. RQ Required: Yes No N/A
- 3. Proper D.O.T. Shipping Name: Polychlorinated Biphenyls 16512001
- 4. D.O.T. Hazard Class: 9
- 5. D.O.T. ID Number: UN 2315
- 6. D.O.T. Packing Group: II
- 7. Additional D.O.T. Description: ERG 31
- 8. Type of Container: Drum Bulk Truck
Other (specify) Wooden Crates
D.O.T. Container Specification: N/A
- 9. Projected Volume: _____ Tons _____ Gallons 21 Cubic Yards _____ Drum(s)
Other (Explain) _____
Per One Time Week Month Quarter Year
- 10. Comments/Special Handling: _____

E. GENERATOR CERTIFICATION

CERTIFICATION OF LIQUIDS TREATMENT (for all non-liquid bulk wastes)

- 1. This waste stream is being shipped as:
 - Drummed Material (Go to signature section F)
 - Bulk Solid Material (Respond to the following statements in paragraph E.2.)
 - Not Applicable (Go to signature section F)
- 2. The waste was:
 - generated as a solid material containing no free liquids
 - OR -
 - generated as a bulk liquid or hazardous waste containing free liquids which has been treated to eliminate free liquids in compliance with Section 3004 (c) of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments of 1994, and the treatment process utilized did not employ the addition of absorbents to the waste (unless used in a stabilization process), and the materials used in the treatment process do not biodegrade or release liquids when compressed.

PCB MATERIALS MUST BE PACKAGED AND SHIPPED IN ACCORDANCE WITH D.O.T. REGULATIONS AS SPECIFIED IN 49 CFR 100-177, AND ALSO PACKAGED IN ACCORDANCE WITH EPA REGULATIONS AS SPECIFIED IN 40 CFR PART 761.

F. GENERATOR CERTIFICATION STATEMENT

I hereby certify that as an authorized representative of the generator named above, all information submitted in this and all the attached documents is true and accurate. To the best of my knowledge, all known and suspected hazardous components have been included in this document. All material and packaging will comply with all current regulations and any material profiled under B.9 and being shipped for direct landfill has been determined to be legal for placement in a TSCA permitted landfill.

Signature Michael F. Malson Title Project Engineer Date 19 Aug 94

Name Michael F. Malson
(Please Type or Print)

ESS USE ONLY

Initial Review [Signature] Technical Review [Signature] Final Review _____
Date Approved 8/23/94 Date Denied _____ Compatibility E

Treatment/Disposal Routing inspect / Flush if needed / Pimize 5 or 14 and incinerate. Wash to

W.P.G. STATUS: APPROVED DENIED

Date _____

ENVIROSAFE SERVICES OF IDAHO, INC.
PO Box 400 Grandview Idaho 83624 Telephone (208)834-2275

ADDENDUM TO WASTE DISPOSAL AGREEMENT

DATE: 8-31-94
ADDENDUM NO.: 2042
CONTRACT DATE: 1-1-89
CONTRACT NUMBER: 1028-WA
WFO REFERENCE: 16512001

NORTHWEST ENVROSERVICE
429 INDUSTRIAL WAY
ANCHORAGE, AK 99501
CONTACT: LARRY WILKINSON
PHONE: 907-272-9007
Facility: Envirosafe Services of Idaho
10.5 Miles, NW Highway 78
Grandview ID 83624 ID0073114654

GENERATOR:
(If different from customer)
US ARMY BRACE, NORTHEAST CAPE PROJECT
KANGUKHSAM MOUNTAIN PO BOX 890
ANCHORAGE, AK 99506-0898
CONTACT: LARRY WILKINSON
PHONE: 907-272-9007
US EPA I.D. NO.: AK0000228195
EPA HW #'S: NA
ESTIMATED WASTE QUANTITY: 16 TRANSFORMERS

INVOICE ADDRESS:
(If different from customer)

CONTACT: _____
PHONE: _____
INDUSTRIAL WASTE MATERIAL: _____
TRANSFORMERS ABOVE 500 PPM DRAINED

DISPOSAL PRICE: PER CONTRACT PRICING

Taxes: IDAHO State Hazardous Waste Disposal Fee: 525.00 Per Ton

TRANSPORTATION:

If transportation is the responsibility of ESTI, initial here _____

Price: _____

Pick Up Location: _____

Demurrage: _____

TERMS OF AGREEMENT (IF ANY):

- *PLEASE FILL IN PURCHASE ORDER NUMBER FOR INVOICING PURPOSES. # 5681
 - *PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED BY ESTI.
 - *BULK DISPOSAL CHARGES WILL BE BILLED BY THE CUBIC YARD IF WASTE DENSITY IS LESS THAN 2000 POUNDS PER CUBIC YARD. IF WASTE DENSITY IS GREATER THAN 2000 POUNDS PER CUBIC YARD THEN BULK DISPOSAL CHARGES WILL BE BILLED BY THE TON.
- THIS ADDENDUM IS INCORPORATED INTO AND IS A PART OF THE WASTE DISPOSAL AGREEMENT BETWEEN CUSTOMER AND ENVIROSAFE SERVICES OF IDAHO, INC. ("ESTI") REFERRED TO ABOVE. THIS ADDENDUM IS NOT A BINDING AGREEMENT UNLESS AND UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF ESTI.

NORTHWEST ENVROSERVICE INC.
CUSTOMER

ENVIROSAFE SERVICES OF IDAHO, INC.

BY: [Signature]
TITLE: General Manager
DATE: 8/6/94

BY: [Signature]
TITLE: CLIENT SERVICES MGR.
DATE: 7 SEPT 1994



ENVIROSAFE SERVICES OF IDAHO, INC.

September 7, 1994

Northwest Enviroservice
429 Industrial Way
Anchorage, AK 99501

Attention: Larry Wilkinson

SUBJECT: ESII Approval Number: 16512002

Waste Stream: US Army USACE, Northeast Cape Project-PCB Solids Dirt, soil & Debris Clothing, Rags, Crushed drums.

The above listed waste stream has been approved for acceptance at Envirosafe Services of Idaho, Inc. (ESII). Enclosed you will find a finalized copy of your Waste Product Questionnaire. Please update your records.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of 8-31-95.

Your shipment of the waste profiled by the above WSID constitutes your acceptance of all Terms and Conditions listed as an Addendum to your Agreement/Contract. If the regulations change, or the waste stream itself changes, it is your responsibility to inform ESII by providing us with a letter or submittal of a new profile and current analysis. This will eliminate the possibility of a load rejection because the profile does not describe the waste stream as received.

A. All waste material must be packaged, labeled and manifested in strict accordance with all applicable EPA and DOT requirements. The above WSID must be marked on each drum or unit. **Please note that labpack shipments cannot be accepted until packing lists have been reviewed and approved by ESII.**

B. To schedule a delivery call Envirosafe's Receiving Department at least one week prior to your anticipated shipping date. Unscheduled loads are subject to refusal at our gate. Scheduling hours are 7:30 a.m. to 4:00 p.m. MST, Monday through Friday at 1-800-274-1516.

If you have questions or need additional information call Client Services at 1-800-274-1516.

Sincerely,

Michael A. Sorce
Manager, Client Services

ENVIROSAFE SERVICES OF IDAHO, INC.
PO Box 400 Grandview Idaho 83624 Telephone (208)834-2275

ADDENDUM TO WASTE DISPOSAL AGREEMENT

DATE: 8-31-94
ADDENDUM NO.: 2044
CONTRACT DATE: 3-1-89
CONTRACT NUMBER: 1028-WA
WPQ REFERENCE: 16512002

NORTHWEST ENVIROSERVICE
429 INDUSTRIAL WAY
ANCHORAGE, AK 99501
CONTACT: LARRY WILKINSON
PHONE: 907-272-9007
Facility: Envirosafe Services of Idaho
10.5 Miles, NW Highway 78
Grandview ID 83624 IDD073114654

GENERATOR:
(If different from customer)
US ARMY USACE, NORTHEAST CAPE PROJECT
KANGUKHSAM MOUNTAIN PO BOX 890
ANCHORAGE, AK 99506-0898
CONTACT: LARRY WILKINSON
PHONE: 907-272-9007
US EPA I.D. NO.: AK0000228395
EPA HW #'S: NA
ESTIMATED WASTE QUANTITY: 4 DRUMS

INVOICE ADDRESS:
(If different from customer)

CONTACT: _____
PHONE: _____
INDUSTRIAL WASTE MATERIAL: _____
PCB SOLIDS DIRT, SOIL & DEBRIS CLOTHING,
RAGS, CRUSHED DRUM

ISPOSAL PRICE: PER CONTRACT PRICING

Taxes: IDAHO State Hazardous Waste Disposal Fee: .. \$25.00 Per Ton

TRANSPORTATION:

If transportation is the responsibility of ESII, initial here _____

Price:

Pick Up Location:

Demurrage:

TERMS OF AGREEMENT (IF ANY):

- *PLEASE FILL IN PURCHASE ORDER NUMBER FOR INVOICING PURPOSES. # _____
 - *PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED BY ESII.
 - *BULK DISPOSAL CHARGES WILL BE BILLED BY THE CUBIC YARD IF WASTE DENSITY IS LESS THAN 2000 POUNDS PER CUBIC YARD. IF WASTE DENSITY IS GREATER THAN 2000 POUNDS PER CUBIC YARD THEN BULK DISPOSAL CHARGES WILL BE BILLED BY THE TON.
- THIS ADDENDUM IS INCORPORATED INTO AND IS A PART OF THE WASTE DISPOSAL AGREEMENT BETWEEN CUSTOMER AND ENVIROSAFE SERVICES OF IDAHO, INC. ("ESII") REFERRED TO ABOVE. THIS ADDENDUM IS NOT A BINDING AGREEMENT UNLESS AND UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF ESII.

NORTHWEST ENVIROSERVICE INC.,
CUSTOMER

ENVIROSAFE SERVICES OF IDAHO, INC.

Y: _____
TITLE: _____
DATE: _____

BY: _____
TITLE: _____
DATE: _____

Mailing Address:
ENVIROSAFE SERVICES OF IDAHO, INC.
P. O. BOX 400
GRAND VIEW, ID 83824

ENVIROSAFE SERVICES OF IDAHO, INC.

ADDENDUM NUMBER 2045 TO AGREEMENT/CONTRACT

U.S. EPA ID. Number ID0073114654

For Customer, Date

For ESII, Date

DATE: 8/31/94 AGREEMENT/CONTRACT NO.: _____
CUSTOMER: _____ W.S.I.D.: 16512002

TERMS AND CONDITIONS FOR RECEIPT OF WASTES AT ESII (PCB Solids)

01. Acceptance ends 5/31/95
02. Normal operating arrival hours: Bulk 7:30 a.m. - 2:00 p.m.
Drums, bags, boxes and special handling 7:30 - 12:00 noon.
03. Waste stream ID (WSID) must appear on each manifest or shipping paper required by EPA or DOT.
04. Atypical loads will be billed on a case-by case basis for all special charges. TANKS are not acceptable under this WSID.
05. Each PCB shipment must be accompanied by a completed and signed ESII PCB Control Sheet.
06. All drivers delivering material to ESII must be in possession of Personal Safety Equipment to include coveralls, boot/boot covers, gloves, hard hats, safety glasses and respirators as needed. If ESII must provide any Personal Safety Equipment it will be billed under this Agreement/Contract at a standard rate.
07. Generator must obtain WSID, and then call 800-274-1516 to obtain *confirmed* schedule delivery date and time prior to shipment of waste to ESII.
08. pH (for solids — of a 50% slurry of waste in distilled water) must be at least 4 but less than 10 by ESII methods.
09. Material, as received, must be in solid, non-flowable condition in accordance with EPA Paint Filter test and U.S.D.O.T. definition of solid.
10. Manifests for CERCLA generated waste must identify all such waste in item J of the manifest as CERCLA generated.
11. ___ Material must meet ESII load bearing strength requirements (1.2 tons/sq. foot penetrometer, SOILTEST Model CL-700 & 701 adapter).
12. ___ Odoriferous waste shipped to ESII for bulk disposal may not be acceptable.
13. ___ Generator must provide updated analysis _____, 19___ and _____ thereafter.
14. ___ Concentration of PCB may not exceed _____ mg/KG.
15. Bulk containers may not contain unauthorized materials or free liquids at time of receipt.
16. Bulk waste must contain sufficient moisture to control dust emissions during disposal.
17. Miscellaneous debris and odd-sized waste must be cut into pieces not exceeding 3 feet in any dimension, or be cut and loaded so truck is self unloading.
18. Dump trucks, end dumps, roll-on/roll-off containers and other bulk containers must be fully lined with minimum 6 mil visqueen.
19. WSID and unique container numbers must be stenciled on top and side of each drum, item or container.
20. ___ Bags must be double-stitched and equipped with integral lift straps; load on flatbed trailer.
21. ___ Palletized boxes must not exceed 44 inches, L, W, H or 1800 pounds; must load flatbed trailer from side; must be constructed of minimum 3/4" plywood with reinforced corners, or DOT approved triwall corrugated cardboard construction with 5 mil. minimum Polyethylene liner, and 90% full as received at the facility.
22. Drums may not contain free liquids or void space, they must be 90% full as received at the facility: metal drums only, 800 pounds or less.
23. ___ This set of Terms and Conditions supercedes all previous sets.
24. Storage date for disposal, upon acceptance at ESII, may not exceed 330 days except by special scheduling.
25. ___ Starting 10/1/93 (or before), we recommend use of HM-181 USDOT shipping info as follows: "R.Q. Polychlorinated Biphenyls Mixture, Class 9, P.G. II, UN2315."

SHIPMENT OF PCB MATERIALS TO ENVIROSAFE SERVICES OF IDAHO, INC. UNDER THE ABOVE LISTED PROFILE (WSID) CONSTITUTES ACCEPTANCE OF THE ABOVE TERMS AND CONDITIONS FOR RECEIPT OF THAT MATERIAL AT ESII. MATERIAL NON-COMPLIANT WITH THESE REQUIREMENTS MAY BE REJECTED OR ADDITIONAL HANDLING CHARGES MAY BE BILLED FOR ACCEPTANCE.

Original - Customer File Canary - Receiving Pink - Pending File

D. SHIPPING AND HANDLING INFORMATION:

- 1. D.O.T. Hazardous Material? Yes No
- 2. D.O.T. RO Required: Yes No N/A
- 3. Proper D.O.T. Shipping Name: Poly chlorinated biphenyls 16512002
- 4. D.O.T. Hazard Class: 9
- 5. D.O.T. ID Number: UN 2315
- 6. D.O.T. Packing Group: II
- 7. Additional D.O.T. Description: ERG 31
- 8. Type of Container: Drum Bulk Truck
Other (specify) _____
- D.O.T. Container Specification: 17H
- 9. Projected Volume: _____ Tons _____ Gallons _____ Cubic Yards 4 Drum(s)
Other (Explain) _____
- Per One Time Week Month Quarter Year
- 10. Comments/Special Handling: _____

E. GENERATOR CERTIFICATION

CERTIFICATION OF LIQUIDS TREATMENT (for all non-liquid bulk wastes)

- 1. This waste stream is being shipped as:
 - Drummed Material (Go to signature section F)
 - Bulk Solid Material (Respond to the following statements in paragraph E.2.)
 - Not Applicable (Go to signature section F)
- 2. The waste was:
 - generated as a solid material containing no free liquids
- OR -
 - generated as a bulk liquid or hazardous waste containing free liquids which has been treated to eliminate free liquids in compliance with Section 3004 (c) of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984, and the treatment process utilized did not employ the addition of absorbents to the waste (unless used in a stabilization process), and the materials used in the treatment process do not biodegrade or release liquids when compressed.

PCB MATERIALS MUST BE PACKAGED AND SHIPPED IN ACCORDANCE WITH D.O.T. REGULATIONS AS SPECIFIED IN 49 CFR 100-177, AND ALSO PACKAGED IN ACCORDANCE WITH EPA REGULATIONS AS SPECIFIED IN 40 CFR PART 761.

F. GENERATOR CERTIFICATION STATEMENT

I hereby certify that as an authorized representative of the generator named above, all information submitted in this and all the attached documents is true and accurate. To the best of my knowledge, all known and suspected hazardous components have been included in this document. All material and packaging will comply with all current regulations and any material profiled under 8.9 and being shipped for direct landfill has been determined to be legal for placement in a TSCA permitted landfill.

Signature Michael F. Malsom Title Project Engineer Date 19 Aug 94

Name Michael F. Malsom
(Please Type or Print)

ESI USE ONLY

Initial Review Kevin [Signature] Technical Review [Signature] Final Review _____

Date Approved 8/31/94 Date Denied _____ Compatibility E

Treatment/Disposal Routing inspect [Signature] call 5-214

W.P.G. STATUS: APPROVED DENIED

Date _____



ENVIROSAFE SERVICES OF IDAHO, INC.

September 7, 1994

Northwest Enviroservice
429 Industrial Way
Anchorage, AK 99501

Attention: Larry Wilkinson

SUBJECT: ESII Approval Number: 16512003

Waste Stream: US Army USACE, Northeast Cape Project-Liquid >500 PPM FP >200
F-Soapy Water.

The above listed waste stream has been approved for acceptance at Envirosafe Services of Idaho, Inc. (ESII). Enclosed you will find a finalized copy of your Waste Product Questionnaire. Please update your records.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of 9-02-95.

Your shipment of the waste profiled by the above WSID constitutes your acceptance of all Terms and Conditions listed as an Addendum to your Agreement/Contract. If the regulations change, or the waste stream itself changes, it is your responsibility to inform ESII by providing us with a letter or submittal of a new profile and current analysis. This will eliminate the possibility of a load rejection because the profile does not describe the waste stream as received.

A. All waste material must be packaged, labeled and manifested in strict accordance with all applicable EPA and DOT requirements. The above WSID must be marked on each drum or unit. **Please note that labpack shipments cannot be accepted until packing lists have been reviewed and approved by ESII.**

B. To schedule a delivery call Envirosafe's Receiving Department at least one week prior to your anticipated shipping date. Unscheduled loads are subject to refusal at our gate. Scheduling hours are 7:30 a.m. to 4:00 p.m. MST, Monday through Friday at 1-800-274-1516.

If you have questions or need additional information call Client Services at 1-800-274-1516.

Sincerely,

Michael A. Sorce
Manager, Client Services

ENVIROSAFE SERVICES OF IDAHO, INC.

PO Box 400 Grandview Idaho 83624 Telephone (208)834-2275

ADDENDUM TO WASTE DISPOSAL AGREEMENT

DATE: 9-2-94
ADDENDUM NO.: 2048
CONTRACT DATE: 3-1-89
CONTRACT NUMBER: 1028-WA
WPQ REFERENCE: 16512003

NORTHWEST ENVIROSERVICE INC.
429 INDUSTRIAL WAY
ANCHORAGE, AK 99501
CONTACT: LARRY WILKINSON
PHONE: 907-272-9007
Facility: Envirosafe Services of Idaho
10.5 miles, NW Highway 78
Grandview ID 83624 IDD073114654

GENERATOR:
(If different from customer)
US ARMY USACE, NORTHEAST CAPE PROJECT
KANGUKHEAM MOUNTAIN PO BOX 890
ANCHORAGE, AK 99506-0898

INVOICE ADDRESS:
(If different from customer)

CONTACT: MICHAEL MALSON
PHONE: 907-353-6131
US EPA I.D. NO.: AK0000228395
EPA HW #'S: NA
ESTIMATED WASTE QUANTITY: 1 DRUM

CONTACT: _____
PHONE: _____
INDUSTRIAL WASTE MATERIAL: _____
LIQUID >500 PPM FP ABOVE 200 F...
SOAPY WATER

DISPOSAL PRICE: PER CONTRACT PRICING

Taxes: IDAHO State Hazardous Waste Disposal Fee: 25.00 Per Ton

TRANSPORTATION:
If transportation is the responsibility of ESII, initial here _____
Price: _____ Pick Up Location: _____

Demurrage:

TERMS OF AGREEMENT (IF ANY):
*PLEASE FILL IN PURCHASE ORDER NUMBER FOR INVOICING PURPOSES. # 5681
*PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED BY ESII.
*BULK DISPOSAL CHARGES WILL BE BILLED BY THE CUBIC YARD IF WASTE DENSITY IS LESS THAN 2000 POUNDS PER CUBIC YARD. IF WASTE DENSITY IS GREATER THAN 2000 POUNDS PER CUBIC YARD THEN BULK DISPOSAL CHARGES WILL BE BILLED BY THE TON.
THIS ADDENDUM IS INCORPORATED INTO AND IS A PART OF THE WASTE DISPOSAL AGREEMENT BETWEEN CUSTOMER AND ENVIROSAFE SERVICES OF IDAHO, INC. ("ESII") REFERRED TO ABOVE. THIS ADDENDUM IS NOT A BINDING AGREEMENT UNLESS AND UNTIL SIGNED BY AN AUTHORIZED REPRESENTATIVE OF ESII.

NORTHWEST ENVIROSERVICE
CUSTOMER
BY: [Signature]
TITLE: General Manager
DATE: 9/6/94

ENVIROSAFE SERVICES OF IDAHO, INC.
BY: [Signature]
TITLE: CLIENT SERVICES MGR.
DATE: 7 SEPT 1994

ENVIROSAFE SERVICES OF IDAHO, INC.

Mailing Address:

ENVIROSAFE SERVICES OF IDAHO, INC.
P. O. BOX 488
AND VERN, ID 83224

ADDENDUM NUMBER 2049 TO DISPOSAL ORDER

U.S. EPA ID. Number ID0073114054

DATE: 9/2/94 DISPOSAL ORDER/CONTRACT NO.: _____

GENERATOR: _____ ^{WS10} PCN NO.: 16512003

BROKER NAME: _____

TERMS AND CONDITIONS FOR RECEIPT OF WASTES AT ESII (Liquids above 500 ppm / Flashpoint above 200°F)

- 01. Acceptance ends 9/2/95
- 02. Normal operating arrival hours: Bulk 7:30 a.m. - 2:00 p.m.
Drums, bags, boxes and special handling 7:30 - 12:00 noon.
- 03. Product Control Number (PCN) must appear on each manifest or shipping paper required by EPA or DOT.
- 04. Atypical loads will be billed on a case-by-case basis for all special charges.
- 05. Each PCB shipment must be accompanied by a completed and signed ESII PCB Control Sheet.
- 06. All drivers delivering material to ESII must be in possession of Personal Safety Equipment to include coveralls, boots/boot covers, gloves, hard hats, safety glasses and respirators as needed. If ESII must provide any Personal Safety Equipment it will be billed under this Disposal Order/Contract at a standard rate.
- 07. Generator must schedule delivery of this material and obtain an ESII acceptance number.
- 08. PCN number must be stenciled on top and side of each drum, item or container.
- 09. pH (for solids — of a 30% slurry of waste in distilled water) must be at least 4 but less than 10 by ESII methods.
- 10. Flash point of incoming liquids must be 200°F or greater by ESII methods.
- 11. Manifests for CERCLA generated waste must identify all such waste in item J of the manifest as CERCLA generated.
- 12. Liquids received at ESII more than 180 days Out-Of-Service for Disposal may require additional charges to ensure disposal within 1 year from Out-Of-Service date.
- 13. ___ Bulk containers may not contain unauthorized materials at time of receipt.
- 14. ___ Bulk WPGs/PCNs may not be mixed in same shipment.
- 15. ___ Concentration of PCB may not exceed _____ mg/KG.
- 17. Drums must contain sufficient outage to prevent overflow from expansion; metal drums only, 800 pounds or less, no open-head drums.
- 18. ___ This set of Terms and Conditions supercedes all previous sets.
- 19. _____

SHIPMENT OF PCB MATERIALS TO ENVIROSAFE SERVICES OF IDAHO, INC. UNDER THE ABOVE LISTED PROFILE (PCN) CONSTITUTES ACCEPTANCE OF THE ABOVE TERMS AND CONDITIONS FOR RECEIPT OF THAT MATERIAL AT ESII. MATERIAL NON-COMPLIANT WITH THESE REQUIREMENTS MAY BE REJECTED OR ADDITIONAL HANDLING CHARGES MAY BE BILLED FOR ACCEPTANCE.

Original - Customer File

Canary - Lab

Print - Pending File

1003



**Northwest
EnviroService
Inc.**

FAX TRANSMITTAL

Date: Nov.30,1994
From: Edward E. Erickson *Ed E Erickson*
To: Ron Broyles
Fbks. Resident Office 353-7070
Re: Manifest Tracking, N.E. Cape

Ron,

Per your request the following is the latest information I have as to the status of the following manifests:

The wastes from St. Lawrence Island was shipped in 3 containers. These containers arrived at the Seattle dock about the 13th. of November.

A1320 Original manifest signed off 11/25
A1321 Original manifest signed off 10/25
A1322 Shipped to ESI from Seattle - 11/30
A1323 Shipped to ESI from Seattle - 11/30
A1324 Shipped to ESI from Seattle - 11/30
A1325 Original manifest completed 11/25, mailed to COE 11/30
A1326 Completed manifest 10/07, mailed to COE on 10/14
A1327 Completed manifest 10/17, mailed to COE on 10/19
A1328 Original manifest completed 11/25, mailed to COE 11/30
A1329 Original manifest completed 11/25, mailed to COE 11/30
B/L14509 Completed 12/1, mailed to COE 12/1

Based on the above information we should be getting disposal certificates or certificates of treatment on A1326 & A1327 in the near future and the certificates on A1322, A1323, A1324 by February 1,1995 with the remainder sometime prior to February 1.

December 29, 1994

NORTHEAST CAPE SORTED BY OUTBOUND MANIFEST #

Container #	Manifest #	Profile #	Outbound Date	Outbound Manifest #	Facility (TSDF)	CD/CT Rec'd
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94.67751	A1326-94	AK4867	12/12/94	27019-94	CyanoKEM	
94.78719	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78718	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78728	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78724	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78717	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78722	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78723	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78720	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78721	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78716	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78726	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78725	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78727	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78989	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78988	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78990	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78991	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78992	14509-94	AK4913		34337-94	Envirosafe Services of ID	
94.78754	A1328-94	AK4915	12/29/94	344329-94	Envirosafe Services of ID	
94.78731	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78730	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78729	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78749	A1328-94	G00732	12/12/94	57018-94	Rineco	
94.78746	A1328-94	G00732	12/12/94	57018-94	Rineco	
94.70187	A1327-94	AK4911	10/31/94	66125-94	Waste Technologies Indust	
94.78993	14509-94	AK4912		75000-94	Envirosafe Services of ID	
94.78994	14509-94	AK4912		75000-94	Envirosafe Services of ID	
94.78767	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78757	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78769	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78766	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78770	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78756	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78768	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78761	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78758	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78764	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78763	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78762	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78765	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78755	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78759	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78760	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.67750	A1326-94	AK4867	12/17/94	Physinvnt	Northwest EnviroService	
94.67749	A1326-94	AK4867	12/17/94	Physinvnt	Northwest EnviroService	
94.78753	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78752	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78751	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78750	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78749	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78748	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78747	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	

94.78745	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService
94.78778	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService
94.78779	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService
94.78746	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService
94.78744	A1329-94	AK4909	12/17/94	Physinvnt	Northwest EnviroService
94.78743	A1329-94	AK4868	12/17/94	Physinvnt	Northwest EnviroService
94.78742	A1329-94	AK4908	12/17/94	Physinvnt	Northwest EnviroService
94.78741	A1329-94	AK4908	12/17/94	Physinvnt	Northwest EnviroService
94.78740	A1329-94	AK4907	12/17/94	Physinvnt	Northwest EnviroService
94.78739	A1329-94	G00908	12/17/94	Physinvnt	Northwest EnviroService
94.78738	A1329-94	AK4865	12/17/94	Physinvnt	Northwest EnviroService
94.78737	A1329-94	AK4865	12/17/94	Physinvnt	Northwest EnviroService
94.78736	A1329-94	AK4865	12/17/94	Physinvnt	Northwest EnviroService
94.78735	A1329-94	AK4865	12/17/94	Physinvnt	Northwest EnviroService
94.78734	A1329-94	AK4865	12/17/94	Physinvnt	Northwest EnviroService

Container #	Manifest #	Profile #	Outbound Date	Outbound Manifest #	Facility (TSDF)	CD/CT Rec'd
94.78990	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78991	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78988	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78989	14509-94	AK4913	11/29/94	34329-94	Envirosafe Services of ID	
94.78992	14509-94	AK4913		34337-94	Envirosafe Services of ID	
94.78994	14509-94	AK4912		75000-94	Envirosafe Services of ID	
94.78993	14509-94	AK4912		75000-94	Envirosafe Services of ID	
94.78726	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78725	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78727	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78716	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78728	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78724	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78719	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78718	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78717	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78720	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78721	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78722	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78723	A1320-94	AK4871	12/09/94	28122-94	APTUS	
94.78729	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78730	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78731	A1321-94	AK4873	12/14/94	36070-94	Envirosafe Services of ID	
94.78764	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78763	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78758	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78768	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78761	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78760	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78759	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78762	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78765	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78755	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78756	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78757	A1325-94	AK4864	12/17/94	Physinvnt	Northwest EnviroService	
94.78767	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78769	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78770	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.78766	A1325-94	AK4863	12/17/94	Physinvnt	Northwest EnviroService	
94.67751	A1326-94	AK4867	12/12/94	27019-94	CyanoKEM	
94.67749	A1326-94	AK4867	12/17/94	Physinvnt	Northwest EnviroService	
94.67750	A1326-94	AK4867	12/17/94	Physinvnt	Northwest EnviroService	
94.70187	A1327-94	AK4911	10/31/94	66125-94	Waste Technologies Indust	
94.78754	A1328-94	AK4915	12/29/94	344329-94	Envirosafe Services of ID	
94.78749	A1328-94	G00732	12/12/94	57018-94	Rineco	
94.78746	A1328-94	G00732	12/12/94	57018-94	Rineco	
94.78747	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78748	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78745	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78779	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78778	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78752	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	
94.78753	A1328-94	G00732	12/17/94	Physinvnt	Northwest EnviroService	

94.78751	A1328-94	G00732	12/17/94	PhysInvnt	Northwest EnviroService
94.78749	A1328-94	G00732	12/17/94	PhysInvnt	Northwest EnviroService
94.78750	A1328-94	G00732	12/17/94	PhysInvnt	Northwest EnviroService
94.78746	A1328-94	G00732	12/17/94	PhysInvnt	Northwest EnviroService
94.78737	A1329-94	AK4865	12/17/94	PhysInvnt	Northwest EnviroService
94.78738	A1329-94	AK4865	12/17/94	PhysInvnt	Northwest EnviroService
94.78736	A1329-94	AK4865	12/17/94	PhysInvnt	Northwest EnviroService
94.78734	A1329-94	AK4865	12/17/94	PhysInvnt	Northwest EnviroService
94.78735	A1329-94	AK4865	12/17/94	PhysInvnt	Northwest EnviroService
94.78739	A1329-94	G00908	12/17/94	PhysInvnt	Northwest EnviroService
94.78743	A1329-94	AK4868	12/17/94	PhysInvnt	Northwest EnviroService
94.78744	A1329-94	AK4909	12/17/94	PhysInvnt	Northwest EnviroService
94.78742	A1329-94	AK4908	12/17/94	PhysInvnt	Northwest EnviroService
94.78740	A1329-94	AK4907	12/17/94	PhysInvnt	Northwest EnviroService
94.78741	A1329-94	AK4908	12/17/94	PhysInvnt	Northwest EnviroService

NWES Certificate of Treatment (Commercial)
 Generators [USA251,USA251] TSD Dates [01/01/94,12/31/99]

Page 1



Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.67749	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorit e, hydrated "chlorine"	AK4867	D001 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T38C
94.67750	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorit e, hydrated "chlorine"	AK4867	D001 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T38C
94.67751	USA251 USArmy USACE Northea	10/07/94	A1326-94	1A	Waste calcium hypochlorit e, hydrated "chlorine"	AK4867	D001 WT02	12/12/94	27019-94	CyanoKEM	S01C T38C
94.70187	USA251 USArmy USACE Northea	10/17/94	A1327-94	1A	Waste metal powders, flam mable, n.o.s. (zinc, iron oxide)	AK4911	D001 WT02	10/31/94	66125-94	Waste Technologies Indust	S01C T38C
94.78716	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78717	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78718	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78719	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78720	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78721	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78722	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78723	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78724	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.78725	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78726	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78727	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78728	USA251 USArmy USACE Northea	11/25/94	A1320-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4871	TSCA PCB2	12/09/94	28122-94	APTUS	S01C T38C
94.78729	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78730	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78731	USA251 USArmy USACE Northea	11/25/94	A1321-94	1A	Polychlorinated biphenyls "marine pollutant"	AK4873	TSCA PCB1	12/14/94	36070-94	Envirosafe Services of Id	S01C T38C
94.78734	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21C
94.78735	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21C
94.78736	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21C
94.78737	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21C
94.78738	USA251 USArmy USACE Northea	11/25/94	A1329-94	1A	Hazardous waste, liquid, n.o.s. (mercury)	AK4865	D009 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21C
94.78739	USA251 USArmy USACE Northea	11/25/94	A1329-94	1B	Waste flammable liquids, n.o.s. (acetone, toluene)	G00908	D001 D004 D005 D006 D007 D008 D009 D010 D011 D018D	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfst	Facility	TSD Codes
							023 D024 D025 D026 D035 F 003 F004 F005 WT02 WC02				
94.78740	USA251 USArmy USACE Northea	11/25/94	A1329-94		2A Waste poisonous solids, c corrosive, n.o.s. (oxalica cid)	AK4907	WT01 D002	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21T
94.78741	USA251 USArmy USACE Northea	11/25/94	A1329-94		2B Waste sodium hydroxide, s olid	AK4908	WT02 D002	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21T
94.78742	USA251 USArmy USACE Northea	11/25/94	A1329-94		2B Waste sodium hydroxide, s olid	AK4908	WT02 D002	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T21T
94.78743	USA251 USArmy USACE Northea	11/25/94	A1329-94		2C Waste isopropanol alcohol	AK4868	D001 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78744	USA251 USArmy USACE Northea	11/25/94	A1329-94		2E Waste aluminum chloride, solution	AK4909	D002 WT02	12/17/94	PhysInvnt	Northwest EnviroService,	S01C T31T
94.78745	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78746	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/12/94 12/17/94	57018-94 PhysInvnt	Rineco Northwest EnviroService,	S01C S02T T50T
94.78747	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78748	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78749	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/12/94 12/17/94	57018-94 PhysInvnt	Rineco Northwest EnviroService,	S01C S02T T50T
94.78750	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78751	USA251 USArmy USACE Northea	11/25/94	A1328-94		1A Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMfst	Facility	TSD Codes
94.78752	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78753	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78754	USA251 USArmy USACE Northea	11/25/94	A1328-94	1C	Caustic alkali liquids, n .o.s. (sodiumsesquicarbon ate)	AK4915		11/29/94	34329-94	Envirosafe Services of Id	S01C T21T
94.78755	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78756	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78757	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78758	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78759	USA251 USArmy USACE Northea	11/25/94	A1325-94	1A	Waste flammable liquids, n.o.s. (diesel, oil)	AK4864	D001	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78760	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78761	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78762	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78763	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78764	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.78765	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78766	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78767	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78768	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78769	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78770	USA251 USArmy USACE Northea	11/25/94	A1325-94	1B	Combustible liquid, n.o.s (lube oil)	AK4863		12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78778	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78779	USA251 USArmy USACE Northea	11/25/94	A1328-94	1A	Waste paint	G00732	D001 D009 WT01	12/17/94	PhysInvnt	Northwest EnviroService,	S01C S02T T50T
94.78988	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21T
94.78989	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21T
94.78990	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21T
94.78991	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		11/29/94	34329-94	Envirosafe Services of Id	S01C T21T
94.78992	USA251 USArmy USACE Northea	11/29/94	14509-94	1A	Non-hazardous waste, liqu id	AK4913		/ /	34337-94	Envirosafe Services of Id	S01C T21T

Container	Generator	TSD Date	Manifest	PgLn	Product Description	Profile	Waste Codes	OutDate	OutMnfst	Facility	TSD Codes
94.78993	USA251 USArmy USACE Northea	11/29/94	14509-94		1B Non-hazardous waste, solid	AK4912		/ /	75000-94	Envirosafe Services of Id	S01C T38C
94.78994	USA251 USArmy USACE Northea	11/29/94	14509-94		1B Non-hazardous waste, solid	AK4912		/ /	75000-94	Envirosafe Services of Id	S01C T38C



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101**

Reply to the
Attention of M/S AT-083

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED
AND FACSIMILE**

**Frederick R. Wiedmaier
Alternate Administrative Contracting Officer
Fairbanks Resident Office
U.S. Army Engineer District, Alaska
P.O. Box 35066
Fort Wainwright, AK 99703-0066**

Re: Amended Consent to Import PCBs

Dear Mr. Wiedmaier:

This amends the Consent to Import PCBs which was originally sent September 9, 1994, to the U.S. Army Engineer District, Alaska (Corps of Engineers), wherein the United States Environmental Protection Agency (EPA) allowed the RE-ENTRY via Canada of PCBs at concentrations exceeding 50 parts per million (ppm) into the continental United States for disposal. This Amended Consent only adds two drums of PCB contaminated waste, not previously listed on Manifest A1321.

The Toxic Substances Control Act (TSCA), Section 6(e)(1), federal regulations at 40 C.F.R. § 761.20, and the United States Closed Border Policy for PCBs, 45 Fed. Reg. 29115 (May 1, 1980), generally prohibit the import for disposal of PCBs in concentrations exceeding 50 ppm into the United States.

However, this letter shall constitute limited EPA approval for the importation of PCBs described below, subject to the conditions listed below. Provided that the Corps of Engineers, Air Cargo Express, Northland Services, and Northwest EnviroService, Inc., fully comply with all conditions set forth below, EPA will not take administrative or civil judicial enforcement action under TSCA against them for importing the PCBs described

below. This decision is based upon information submitted by Corps of Engineers which indicates that EPA approval of the import of the PCBs, as described in this letter, will serve the public interest and will not present an unreasonable risk of injury to human health or the environment.

EPA's decision to grant enforcement discretion in this matter is limited to civil or administrative liability for the import of the subject PCBs under TSCA, based upon a specific review of the facts and circumstances presented, and is not to be construed as a precedent that pertains to any other situation. EPA reserves its right to seek appropriate enforcement remedies for any violation of TSCA or the PCB regulations not specifically covered by the grant of enforcement discretion set forth herein.

DESCRIPTION OF SUBJECT PCBs

Manifest A1320

13- PCB Containers

55 gallon tight-head drums containing PCB contaminated liquid;
overpacked in 85 gallon open-head drums

Total weight: 3794 kg

Manifest A1321

3- PCB Article Containers

Wooden crates containing drained PCB contaminated bell housings
for electrical switches

Total weight: 7272 kg

2- PCB Containers

55 gallon tight-head drums containing PCB contaminated debris

Total weight: 190 kg

Generator Site:

Northeast Cape, St. Lawrence Island, Alaska
(Kanguksam Mountain, 52.25 Miles; Savoonga, AK 99769)

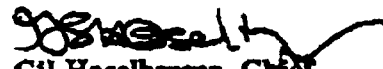
CONDITIONS ON IMPORT

1. The import of the PCBs will take place between September 15, 1994, and October 15, 1994. It is understood that the exact date of shipment, and any deviations from it, will be provided to the EPA prior to shipment.
2. Import of the PCBs is for disposal only.

3. The subject PCBs shall be packaged to conform to the requirements of Department of Transportation regulations governing the packaging of hazardous waste.
4. The PCBs are subject to the manifesting, labelling, recordkeeping, and disposal requirements of TSCA and the applicable regulations pursuant to TSCA.
5. The PCBs shall reenter the United States at Seattle, Washington, and shall be transported by the most direct route practicable to Northwest EnviroService, Inc., Seattle, Washington.
6. A copy of this letter shall accompany the subject PCBs during transport.
7. A manifest and disposal certificate documenting proper disposal shall be forwarded to William M. Hedgebeth, PCB Team Leader, EPA Region 10, Toxic Substances Section, 1200 Sixth Avenue, M/S AT-083, Seattle, Washington 98101, telephone (206) 553-7369, within 60 days of the receipt of such manifest by the generator.

Any questions concerning the specific requirements of this letter shall be directed to William M. Hedgebeth, PCB Team Leader, EPA Region 10, Toxic Substances Section, 1200 Sixth Avenue, M/S AT-083, Seattle, Washington 98101, telephone (206) 553-7369, or Gil Haselberger, Chief, Toxic Substances Section, at the same address, telephone (206) 553-1094.

Sincerely,


Gil Haselberger, Chief
Toxic Substances Section

cc: Michael Wood, EPA-HQ, M/S 7203
Ron Broyles, U.S. Army Engineer District, Ft. Wainwright, AK

CORPS of ENGINEERS , N.E. CAPE

Manifest #	Line #	Waste Description	Drum size	W.P.Q. #	# of Containers	Type	Gross Pounds	Gross Kilograms
A 1320	1 A	PCB OIL		AK 4871	13	DM	8347	3794
A 1322	1 A	PCB SOIL / DEBRIS		16512002	4	DM	954	434
A 1323	1 A	TRANSFORMERS		16512001	16	CW	15998	7272
A 1324	1 A	PCB WATER		16512003	1	DM	119	54
TOTAL					34		25418	11554
Manifest #	Line #	Waste Description	drum size	W.P.Q. #	# of Containers	Type	Gross Pounds	Gross Kilograms
A 1321	1 A	PCB SWITCHES		AK 4873	3	CW	3307	1503
A 1325	1 A	PETROLEUM OIL		AK 4863	9	DM	4203	
A 1325	1 B	PETROLEUM OIL		AK 4864	5	DM	2355	
A 1326	1 A	CALCIUM HYPOCHLORITE		AK 4867	3	DM	421	
A 1327	1 A	METAL POWDER		AK 4911	1	DM	83	
A 1328	1 A	PAINT		GO0700	8	DM	3722	
A 1328	1 B	SOAP L-6		AK 4915	1	DM	500	
A 1328	1 C	SOAP		AK 4913	4	DM	2500	
A 1329	1 A	LATEX		AK4865	5	DM	1632	
A 1329	1 B	NON-CHLOR , SOLVENT		GO 0900	1	DM	340	
A 1329	1 C	ISOPROPANOL		AK 4868	1	DM	53	
A 1329	1 D	SODIUM HYDROXIDE		AK 4908	2	DM	227	
A 1329	1 E	OXALIC ACID		AK4907	1	DM	26	
A 1329	1 F	ENZYMES		AK4912	2	DM	251	
A 1329	1 G	ALUMINUM CHLORIDE		AK 4909	1	DM	25	
TOTAL					47		19645	1503
TOTAL								
both pages					81		45063	13057

A1321 - 1B PCB SOIL/DEBRIS.

LSD14512002 2 DM. 190 KG

CORPS of ENGINEERS , N.E. CAPE

Manifest #	Line #	Waste Description	Drum #	W.P.Q. #	# of Containers	Type	Gross Pounds	Gross Kilograms
A 1320	1 A	PCB OIL		AK 4871	13	DM	8347	3794
A 1322	1 A	PCB SOIL / DEBRIS		16512002	4	DM	954	434
A 1323	1 A	TRANSFORMERS		16512001	16	CW	15998	7272
A 1324	1 A	PCB WATER		16512003	1	DM	119	54
TOTAL					34		25418	11554
Manifest #	Line #	Waste Description	Drum #	W.P.Q. #	# of Containers	Type	Gross Pounds	Gross Kilograms
A 1321	1 A	PCB SWITCHES		AK 4873	3	CW	3307	1503
A 1325	1 A	PETROLEUM OIL		AK 4863	8	DM	3558	
A 1325	1 B	PETROLEUM OIL		AK 4864	6	DM	3000	
A 1326	1 A	CALCIUM HYPOCHLORITE		AK 4867	3	DM	421	
A 1327	1 A	METAL POWDER		AK 4911	1	DM	83	
1328	1 A	PAINT		GO0700	8	DM	3722	
A 1328	1 B	SOAP L-6		AK 4915	1	DM	500	
A 1328	1 C	SOAP		AK 4913	4	DM	2500	
A 1329	1 A	LATEX		AK4865	5	DM	1632	
A 1329	1 B	NON-CHLOR , SOLVENT		GO 0900	1	DM	340	
A 1329	1 C	ISOPROPANOL		AK 4868	1	DM	53	
A 1329	1 D	SODIUM HYDROXIDE		AK 4908	2	DM	227	
A 1329	1 E	OXALIC ACID		AK4907	1	DM	26	
A 1329	1 F	ENZYMES		AK4912	2	DM	251	
A 1329	1 G	ALUMINUM CHLORIDE		AK 4909	1	DM	25	
TOTAL					47		19645	1503
TOTAL								
both pages					81		45063	13057

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94 X

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1320		2. Page 1 of 2	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kanguksaa MT 52.25 miles, Savoonga, AK 99769				A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (907) 353-6131				C. State Transporter's ID		D. Transporter's Phone (206) 244-2146	
5. Transporter 1 Company Name Trans Arctic LTD		6. US EPA ID Number WAD000202457		E. State Transporter's ID		F. Transporter's Phone (206) 622-1090	
7. Transporter 2 Company Name Northwest EnviroService, Inc.		8. US EPA ID Number WAD058367152		G. State Facility's ID		H. Facility's Phone (206) 622-1090	
9. Designated Facility Name and Site Address Northwest EnviroService, Inc. 1500 Airport Way South Seattle, WA 98134				10. US EPA ID Number WAD058367152			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Polychlorinated biphenyls "marine pollutant" 9, UN2315. P611 (PCB's-1P) (ERG431)					13	DM 3794	K TSCA PCB2
b. _____							
c. _____							
d. _____							
J. Additional Descriptions for Materials Listed Above a) WPQ AK4871 - PCB contaminated hydraulic fluids w/PCB 5000ppm, PCB-A (APTUS-AR1051)					K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information **Please mail manifest to: USArmy USACE Northeast Cape, P.O. Box 890 Anchorage, AK 99506-8898							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name: Ronald S. Aryles on behalf of the U.S. Army Corps of Engineers				Signature: <i>Ronald S. Aryles</i>		Month/Day/Year: 10/13/94	
Printed/Typed Name: <i>FRANK</i>				Signature: <i>Frank</i>		Month/Day/Year: 10/13/94	
Printed/Typed Name: <i>Herfindahl</i>				Signature: <i>M. K. Herfindahl</i>		Month/Day/Year: 10/13/94	
19. Discrepancy Indication Space							
Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19							
Printed/Typed Name: <i>William H. Gassett</i>				Signature: <i>William H. Gassett</i>		Month/Day/Year: 10/25/94	

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on 8 1/2 (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1320	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.	
23. Generator's Name US Army USACE Northeast Cape Kangukhsas MT 52.25 miles, Savoonga, AK 99769 (907) 353-6131				L. State Manifest Document Number		
				M. State Generator's ID		
24. Transporter 3 Company Name Northland Services		25. US EPA ID Number WA0981773005		N. State Transporter's ID		
26. Transporter 4 Company Name Northwest EnviroService, Inc.		27. US EPA ID Number WA0058367152		O. Transporter's Phone (206) 763-3000		
				P. State Transporter's ID		
				Q. Transporter's Phone (206) 622-1090		
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers No.	30. Total Quantity	31. Unit Wt/Vol
a.				Type		R. Waste No.
b.						
c.						
d.						
e.						
f.						
g.						
h.						
i.						
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above		
32. Special Handling Instructions and Additional Information						
TRANSPORTER	33. Transporter 3 Acknowledgement of Receipt of Materials			Date:		
	Printed/Typed Name Fred Howard for Northland Services		Signature Fred Howard	Month 7	Day 14	Year 1991
	34. Transporter 4 Acknowledgement of Receipt of Materials			Date:		
Printed/Typed Name David R. Bumprey		Signature David R. Bumprey	Month 11	Day 16	Year 1991	
35. Discrepancy Indication Space						

GENERATOR

BSB

NORTHWEST ENVIRONMENTAL SERVICE, INC. PCB CONTROL SHEET

GENERATOR: U.S. Army USACE Northeast Cape
 ADDRESS: Kanqukhsam MT 52.25 mi. Savoonga, AK 99769 Date: 8/31/94
 EPA ID #: AK00002283
 CONTACT: CPT M. Malson
 PHONE #: (907) 353-6131

MANIFEST #: A1320
 NWES PCB LOAD #: _____
 Page 1 of 2

**THIS CONTROL SHEET MUST ACCOMPANY EACH
PCB MANIFEST FOR ACCEPTANCE AT NWES.**

For Transformers, Articles and PCB Equipment

9-2-94 JB

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Date of Service Date or Accumulation Start Date	Generator Assigned Drum Number or Article	NWES Assigned Drum Number (Facility Use Only)	WFO Number	Type of PCB Material and Size of Packaging or Drum	PPM	Number of Drums in Drum	Manufacturer and Serial Number (From Nameplate on Drum)	KVA Rating (From Nameplate on Drum)	Drum Filled or Full & Volume of Liquid	Weight in Pounds for Each Transformer, Article or Drum	Weight Discrepancy (Facility use only)
7/12/94	NEC 01		AK4871	Oil in 55Dm	540,000	1	N/A	N/A	37	277	
	02		AK4871		570,000	1			37	277	
	03				560,000	1			47	326	
	04				630,000	1			49	337	
	05				550,000	1			51	355	
	06				480,000	1			39	282	
	07				590,000	1			23.5	299	
	08				480,000	1			23.5	300	
	09				470,000	1			55	384	
	10				480,000	1			55	375	
✓	11		✓	✓	15,600	1	✓	✓	35.5	169	

NOTE: FILL IN ONLY ONE DRUM ITEM PER LINE.

- Instructions:**
- Fill in the end of service date/accumulation start date.
 - Generate assigned drum number to appear on both manifest and equipment.
 - NWES Drum Number. Facility use only.
 - NWES WFO Number.
 - Description of PCB waste and packaging.
 - Field portion of PCB.
 - Number of drums.
 - For transformers and large articles: Fill in Manufacturer and Serial Number.
 - PPM or KVA. All information for the previous sections can be obtained from the nameplate of the transformer or article.
 - If drained, flushed or full. If full, enter the total percentage remaining in the transformer.
 - Enter the total weight in pounds for each line. (Continuation for 5.2-14)
 - Facility use only for weight discrepancy.

I certify that this information is true, accurate and complete.

Michael J. Malson
Signature

Project Engineer
Title

1 Sep 94
Date

NORTHWEST EN. ROSSERVICE, INC. PCB CONTROL SHEET

GENERATOR: US Army USACE Northeast Cape
 ADDRESS: Kangukhsam, NT 52.25 mi Date: 8/31/94
Savoonga, AK 99769
 EPA ID #: AK00002283
 CONTACT: CPT M. Malson
 PHONE #: (907)353-6131

MANIFEST #: A1320
 NWES PCB LOAD #: _____
 Page 2 of 2

**THIS CONTROL SHEET MUST ACCOMPANY EACH
PCB MANIFEST FOR ACCEPTANCE AT NWES.**

							For Transformers, Articles and PCB Equipment				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Date of Sampling (Date of Accumulation Start Date)	Company Assigned Drum Number or Article	NWES Assigned Drum Number (Facility Use Only)	WFO Number	Type of PCB Material and Size of Packaging or Drum	PPM	Number of Drums in Drum	Manufacturer and Serial Number (from Nameplate on Drum)	IWA Rating (from Nameplate on Drum)	Dipped, Flashed or Full (# Gallons of Liquid)	Weight in (kilograms for Each Transformer, Article or Drum)	Weight Discrepancy (Facility use only.)
	NEC 12		AK4871	Oil in SSDM	5860	1	N/A	N/A	37.	177	
	NEC 13		"	" " "	62000	1	N/A	N/A	47.	236	

9-2-94/16

NOTE: FILL IN ONLY ONE DRUM ITEM PER LINE.

Instructions:

1. Fill in the out-of-service date/accumulation start date.
2. Drum/barrel label drum number to appear on both control and drum labels.
3. NWES Drum Number. Facility use only.
4. NWES WFO Number.
5. Description of PCB waste and packaging.
6. PCB ppm value of PCB.

7. Number of drums.
8. For transformers and large articles: Fill in Manufacturer and Serial Number.
9. IWA or IWE. All information for the preceding sections can be obtained from the nameplate of the transformer or article.
10. If dipped, flashed or full, enter the total gallons remaining in the transformer.
11. Enter the total weight in kilograms for each line. (Conversion: lbs ÷ 2.2 = kg)
12. Facility use only for weight discrepancy.

I certify that this information is true, accurate and complete.

Michael J. Malson
Signature

Project Engineer
Title

1 Sep 94
Date

P.3

SEP 01 '94 06:37PM NORTHWEST ENV SVC ANCH AK

Aptus / Utah
 11600 North Aptus Road
 Aragonite, UT 84029
 (801) 521-9040

PCB Continuation Sheet

Manifest # A 1320

Generator Northwest EnviroService, Inc.

Generator's Unique ID Number	Aptus Profile Number	Type of PCB Item (A)	Description of Contents (B)	Weight - (Kg)	PCB Out of Service Date
NEC01		2	1	277	7/22/94
NEC02		2	1	277	7/22/94
NEC03		2	1	326	7/22/94
NEC04		2	1	337	7/22/94
NEC05		2	1	355	7/22/94
NEC06		2	1	282	7/22/94
NEC07		2	1	299	7/22/94
NEC08		2	1	300	7/22/94
NEC09		2	1	384	7/22/94
NEC10		2	1	375	7/22/94
NEC11		2	1	169	7/22/94
NEC12		2	1	177	7/22/94
NEC13		2	1	236	7/22/94

- A) Type of PCB Item:
 1. Bulk Tanker or Truck
 2. Container

- B) Description of Contents:
 1. Liquid
 2. Soil
 3. Debris
 4. Other (describe)

Signature of Authorized Representative: Michael F. Malsom
 Print or Type Name: Michael F. Malsom
 Title: Project Engineer Date: 19 Aug 94

M:\PCBS\IT



**Northwest
EnviroService
Inc.**

M E M O R A N D U M

To: Terry Bukowski
From: Larry Wilkinson
Re: PCB Manifests from Northeast Cape
Date: October 6, 1994

Attached are copies of two manifests (A1321 and A1322). One manifest (A1321) designates Northwest EnviroService as the TSDf and the other (A1322) designates Envirosafe Services of Idaho (ESII).

While disembarking from the site two additional drums of PCB debris were generated. These two drums were added to manifest A1321 but instead should become a part of manifest A1322. The reason they should become a part of manifest A1322 is that PCB Debris on this project was profiled into only ESII and not into NWES.

When these drums and manifests reach your facility in Seattle, please mark in box 19 of manifest A1321 that the two debris drums on line (b) were deleted from this manifest and added to manifest A1322 and sent to ESII with the other debris drums on A1322.

The quantity, weight and PCB control sheet on manifest A1322 should be increased to reflect this change. There should probably be a note placed in box 19 of A1322 also to explain the increases.

Please let me know if there are any better ways to handle this situation. If you endorse the above approach and can make the written and physical transfers, let me know and I will advise the generator of our intent to seek their endorsement.

This load is scheduled to arrive in Seattle around October ³⁰~~20~~, 1994 via Northland.

November 28, 1994

Northwest EnviroService
P.O. Box 24443
Seattle, WA 98124

SAMPLE

Dear Northwest EnviroService:

While demobilizing from the Northeast Cape site two additional drums of PCB debris were generated. These two drums were added to manifest A1321 but should have been added to manifest A1322.

Please delete line 1b from manifest A1321 and transfer the information to manifest A1322 on line 1b. The control sheets should reflect the same change.

If there are any questions please contact Larry Wilkinson with Northwest EnviroService, Alaska Division at (907) 272-9007 or myself at (907) 337-6131.

Sincerely,

Ed: The second paragraph pertains
to you.

MEMO TO FILE

Friday December 9, 1994

LOAD PROBLEM

**PROFILE #16512002 PCB CONTAMINATED SOIL/DEBRIS
US ARMY USACE - AK**

Brian Huey of ESI called on 12-7-94 to report a problem with the drum load from Alaska.

The first problem involved 2 drums that ESI could not find any shipping documents for. The drums were labeled with profile number 16356001 and manifest #12051. Steve Drumheller remembered these drums. They were shipped on a bill of lading. The generator would not sign the bill of lading, so a letter was drafted which allowed Steve to sign for the generator. A copy of this was faxed to Brian Huey. He later found the copy that was sent with the manifest. ESI accepted the material. They are making corrections on the bill of lading such as adding ESI's EPA ID#, etc. Please note: ESI would like to have non-haz material shipped on a manifest rather than a bill of lading.

The second problem occurred when 2 drums that were supposed to be on a direct ship manifest to ESI were placed on a manifest (#A1321) to NWES. NWES accepted the other line (1a) of material on A1321 and wrote in the discrepancy box that line 1b should be deleted and the two drums should be added to line 1a of manifest A1322, which was a direct ship manifest to ESI. Brian Huey accepted the drums and noted in the discrepancy box that 2 drums were added to line 1a from manifest A1321.

cc: Venessa Nelson
Bill Thomas
Linda Swiss
Jerry Bartlett
Symantha DelaCruz
Bill Glasgow

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039. Expires 9-30-91.

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No. AK00000329005	Manifest Document No. A1001	2 Page 1 of 2	Information in the shaded areas is not required by Federal law		
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kanguksaa HT 32.25 miles, Savoonga, AK 99769				A. State Manifest Document Number			
4. Generator's Phone (907) 523-6131				B. State Generator's ID = 2250			
5. Transporter 1 Company Name Trans Arctic LTD		6. US EPA ID Number WA0000202457		C. State Transporter's ID			
7. Transporter 2 Company Name Northwest EnviroService, Inc.		8. US EPA ID Number WA0054367150		D. Transporter's Phone (206) 244-2146			
9. Designated Facility Name and Site Address Northwest EnviroService, Inc. 1500 Airport Way South Seattle, WA 98134		10. US EPA ID Number WA0054367150		E. State Transporter's ID			
				F. Transporter's Phone (206) 222-1090			
				G. State Facility's ID			
				H. Facility's Phone (206) 522-1090			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.		
No	Type	No	Type				
a. 90	Polychlorinated biphenyls "marine pollutant" 9, UN2815, PCB's (PCB's - I) (ERG#31)	1	EW	1500	K		TSCA PCB1
b. RR	Polychlorinated biphenyls "marine pollutant" 9, UN2815 PCB's (PCB's - I) (ERG#31)	2	EW	190	K		TSCA PCB2
c.							
d.							
J. Additional Descriptions for Materials Listed Above a) WFO AK4873 - Electric (switches) articles with PCB >500 ppm (TSCA landfill), PCB-B (ESI: #11135013) B) WSID 16512002 - PCB contaminated soil & debris >500 ppm NEC 160, HEC 161				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information **Please mail manifest to: USArmy USACE Northeast Cape, P.O. Box 390 Anchorage, AK 99506-0390 LOAD#							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Ronald S. Broyles on behalf of the US Army Corps of Engineers		Signature Ronald S. Broyles		Month Day Year 9 13 94			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name K K KLEAM		Signature K K KLEAM		Month Day Year 9 17 94			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name L. L. Hordahl		Signature L. L. Hordahl		Month Day Year 9 13 94			
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature Month Day Year							

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5609

Print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2060-0020. Expires 09/91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1321	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.		
23. Generator's Name US Army USACE Northeast Cape Kanguksas MT 52.25 miles, Savoonga, AK 99769 (907) 353-6131				L. State Manifest Document Number	M. State Generator's ID		
24. Transporter 3 Company Name Northland Services				25. US EPA ID Number WA0981773005	N. State Transporter's ID	O. Transporter's Phone (206) 763-3000	
26. Transporter 4 Company Name Northwest EnviroService, Inc.				27. US EPA ID Number WA0058367152	P. State Transporter's ID	Q. Transporter's Phone (206) 622-1090	
28. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a. ...				No.			
b. ...				Type			
c. ...							
d. ...							
e. ...							
f. ...							
g. ...							
h. ...							
i. ...							
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information							
33. Transporter 3 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name LARRY HOWARD FOR Northland Services				Signature <i>Larry Howard</i>		Month Day Year 9 22 94	
Transporter 4 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
35. Discrepancy Indication Space							

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-97

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AK0000225395	Manifest Document No. A1322	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kanguksam MT 53.25 miles, Savoonga, AK 99769				A. State Manifest Document Number		
4. Generator's Phone (907) 353-6131				B. State Generator's ID		
5. Transporter 1 Company Name Trans Arctic LTD		6. US EPA ID Number WAD000202457		C. State Transporter's ID		
7. Transporter 2 Company Name Northwest EnviroService, Inc.		8. US EPA ID Number WAD058367152		D. Transporter's Phone (206) 244-2146		
9. Designated Facility Name and Site Address EnviroSafe Services of Idaho, Inc. 10.5 Miles NW on HWY 78, Missile Base Road Grand View, ID 83624		10. US EPA ID Number IDD073114654		E. State Transporter's ID		
				F. Transporter's Phone (206) 622-1090		
				G. State Facility's ID		
				H. Facility's Phone (208) 834-2275		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a. Polychlorinated biphenyls "marine pollutant" 9. UN2315. PGII (PCB's-1P) (ERG#31)		4	DM 434	K	TSCA PCB2
	b. _____					
	c. _____					
	d. _____					
J. Additional Descriptions for Materials Listed Above 11a) WSID 16512002 - PCB contaminated soil & debris >500 ppa				K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information **Please mail manifest to: USArmy USACE Northeast Cape LOAD# P.O. Box 890, Anchorage, AK 99506-0898						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Ronald S. Broyles		Signature <i>Ronald S Broyles</i>		Month Day Year 9 13 94		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					
	Printed/Typed Name <i>E. V. ...</i>		Signature <i>[Signature]</i>		Month Day Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>M. ...</i>		Signature <i>[Signature]</i>		Month Day Year 9 13 94		
19. Discrepancy Indication Space						
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19					
	Printed/Typed Name		Signature		Month Day Year	

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5689

Print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 12/31/91

FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1322	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.		
1. Generator's Name US Army USACE Northeast Cape Kanguksaa MT 52.25 miles, Savoonga, AK 99769 (907) 353-6181				L. State Manifest Document Number AK0000228395			
4. Transporter <u>3</u> Company Name Northland Services				25. US EPA ID Number WA0981773005	M. State Generator's ID AK0000228395		
6. Transporter <u>4</u> Company Name Northwest EnviroService, Inc.				27. US EPA ID Number WA058367152	N. State Transporter's ID AK0000228395		
8. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers No.	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
RSB							
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above			
32. Special Handling Instructions and Additional Information							
33. Transporter <u>3</u> Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Larry Howard for Northland Services				Signature Larry Howard		Month Day Year 9 22 1994	
Transporter <u>4</u> Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
36. Discrepancy Indication Space							

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AK0000229345	Manifest Document No 91337	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kanguknsam MT 32.35 miles, Savoonga, AK 99753				A. State Manifest Document Number						
4. Generator's Phone (907) 253-6131				B. State Generator's ID						
5. Transporter 1 Company Name Trans Arctic LTD		6. US EPA ID Number AK0000229345	C. State Transporter's ID		D. Transporter's Phone (907) 244-2146					
7. Transporter 2 Company Name Northwest EnviroService, Inc.		8. US EPA ID Number AK0000229345	E. State Transporter's ID		F. Transporter's Phone (206) 622-1090					
9. Designated Facility Name and Site Address EnviroSafe Services of Idaho, Inc. 10.5 Miles NW on HWY 78, Missile Base Road Grand View, ID 83634			10. US EPA ID Number ID0000114474	G. State Facility's ID						
			H. Facility's Phone (208) 974-2275							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. Polychlorinated biphenyls "marine pollutant" RD 9. UN2315. PGII (PCB's-IP) (ERG#31)						No. 16	Type CW	7572	K	TSCA PCB1
b. _____										
c. _____										
d. _____										
J. Additional Descriptions for Materials Listed Above 11a) WSID 16512001 - Transformers 1500 pow. drained						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information ←Please mail manifest to: USArmy USACE Northeast Cape LOAD# P.O. Box 390, Anchorage, AK 99506-0598										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name <i>Ronald S. Boyles</i>						Signature <i>Ronald S. Boyles</i>		Month Day Year 9 13 94		
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name <i>C. E. ...</i>						Signature <i>[Signature]</i>		Month Day Year [] [] []		
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name <i>M. L. ...</i>						Signature <i>[Signature]</i>		Month Day Year 9 12 94		
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name						Signature		Month Day Year		

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5689

Print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2060-0030. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1323	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.		
3. Generator's Name USArmy UBACE Northeast Cape Kangukhsaa MT 52.25 miles, Savoonga, AK 99769 (907) 353-6181				L. State Manifest Document Number			
4. Transporter <u>3</u> Company Name Northland Services				M. State Generator's ID 40001			
6. Transporter <u>4</u> Company Name Northwest EnviroService, Inc.				N. State Transporter's ID			
25. US EPA ID Number WA0981773005				O. Transporter's Phone (206) 763-3000			
27. US EPA ID Number WA058367152				P. State Transporter's ID			
Q. Transporter's Phone (206) 622-1090							
8. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers	30. Total Quantity	31. Unit W/Vol	R. Waste No.	
No.	Type		No.				
<i>RSB</i>							
S. Additional Descriptions for Materials Listed Above			T. Handling Codes for Wastes Listed Above				
32. Special Handling Instructions and Additional Information							
33. Transporter <u>3</u> Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name LARRY HOWARD FOR Northland Services		Signature <i>Larry Howard</i>		Month Day Year 9 22 94			
Transporter <u>4</u> Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name		Signature		Month Day Year			
35. Discrepancy Indication Space							

PCB Control Sheet

EnviroSafe Services of Idaho, Inc.
 Site: 10.5 Miles NW of Grand View, ID 83624
 Office: P.O. Box 16217 Boise, ID 83715

Generator: U.S. Army (AFCE), Northwest Gate
 Site Address: Kangdusan Mountain, P.O. Box 890
 City, State: Anchorage, AK 99506-0890
 EPA ID#: AK0000220395
 Page 1 of 1

Manifest No. A1323

ESII Use Only:
 Load # _____
 Received _____

1	2	3	4	5	6	7	8	9	10	11	12	13
WSID#	Qty.	Pkg.	Type of Material	D/F	Manuf.	Serial#/Unique #	KVA	Weight Lbs	Dielect Vol.	PPM	OSD	Spill
	1	CW	Transformer	D	Eisler Eng	3356C6	50	547	26G	540,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356C1	50	550	26G	590,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356C2	50	533	26G	590,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356A6	100	871	53G	500,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356A9	100	859	53G	630,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356A10	100	826	53G	550,000	7/22/94	
	1	CW	Transformer	D	Westinghouse	6251215	167	1152	50G	480,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356B5	167	1308	50G	590,000	7/22/94	
	1	CW	Transformer	D	Eisler Eng	3356B6	167	1300	50G	400,000	7/22/94	
	1	CW	Transformer	D	Westinghouse	605E2126	167	1156	50G	470,000	7/22/94	
	1	CW	Transformer	D	Westinghouse	605E2123	167	1148	50G	470,000	7/22/94	
	1	CW	Transformer	D	Westinghouse	605E2125	167	1130	50G	480,000	7/22/94	
	1	CW	Transformer	D	Gen Electric	No Name Plate	25	389	20G	15,600	7/22/94	
	1	CW	Transformer	D	Gen Electric	B306925A	25	390	20G	15,600	7/22/94	
	1	CW	Transformer	D	Gen Electric	B316925A	25	390	20G	5,860	7/22/94	
	1	CW	Transformer	D	Maloney	N01160849	50	560	26G	7500	7/22/94	

Explanation:

1. WSID# - ESII's approved waste stream ID#.
2. QTY - Enter quantity.
3. PKG. - Enter pkg. type - same as container type on manifest.
4. Type of material - enter description of material. Be specific.
5. D/F - Specify if the transformer or article is full (F), drained (D), or drained and flushed (D/F).
6. Manuf. - Enter the manufacturer.
7. Serial#/Unique# - Enter the nameplate serial number for transformers or articles or a unique number for each container.
(Note: If there is no nameplate serial#, you must assign a unique number to each container.)
8. KVA - Enter the nameplate KVA rating of the transformer or article.

Explanation continued:

9. Weight LBS. - Enter the weight in pounds.
 10. Dielect Vol. - Enter the nameplate dielectric volume of the transformer or article.
 11. PPM - Enter the parts per million PCB contained in the material.
 12. OSD - Enter the date the material was removed from service and designated for disposal. (781.65(n), 781.180(a), 781.207(n))
 13. Spill - Place an 'X' in this section if the material is a result of a spill.
- Instructions:**
 The following sections must be filled out for all material: 1,2,3,4,9,11,12,13.
 Additional sections to be filled out for transformers and articles: 5,6,7,8,10.
 Additional section to be filled out for PCB drum materials: 7.

Declaration: In order to induce ESII to accept the waste material specified at the ESII Grand View, Idaho facility the undersigned as an authorized employee of the generating company hereby warrants and certifies to ESII that the waste material listed above, delivered to and accepted for disposal by ESII shall conform to the above description and that all waste material and packaging shall comply with all current state and federal regulations.

Michael J. Maloney
 Signature

Project Engineer
 Title

17 Aug 94
 Date

Note: A completed PCB Control sheet, including generator's signature, must accompany each shipment of regulated PCB waste.

Please print or type. Form designed for use on elite (12-bit) typewriter

Form Approved, OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No 390000AT19704		Manifest Document No 21734		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address USARMC USACE Northeast Cade Anchorage AK 52.25 miles. Seward, AK 99769						A. State Manifest Document Number						
4. Generator's Phone (907) 247-3111						B. State Generator's ID						
5. Transporter 1 Company Name Treatments EPC				6. US EPA ID Number 12700000157		C. State Transporter's ID			D. Transporter's Phone (206) 244-2146			
7. Transporter 2 Company Name Northwest Environmental Service, Inc.				8. US EPA ID Number 14000000157		E. State Transporter's ID			F. Transporter's Phone (206) 622-1090			
9. Designated Facility Name and Site Address EnviroSafe Services of Idaho, Inc. 10.5 Miles NW on HWY 78, Missile Base Road Boise, ID 83724						10. US EPA ID Number 12000000157		G. State Facility's ID			H. Facility's Phone (208) 304-2275	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	15. Waste No.	
a. Polychlorinated biphenyls "marine pollutant" PCB, UN2835, PGII (PCB's-IP) (ERG431)						1	DM	5+	K	TSCA PCB2		
b. PCB												
c.												
d.												
J. Additional Descriptions for Materials Listed Above (11a) WSID 16512000 - PCB liquid 1500 ppm, FP 1200 P-soapy water						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information **Please mail manifest to: USARMC USACE Northeast Cade LOAD# 910, Box 890, Anchorage, AK 99506-0890												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name Ronald S. Brayles						Signature <i>Ronald S. Brayles</i>			Month Day Year 9 13 94			
17. Transporter 1 Acknowledgement of Receipt of Materials/ Printed/Typed Name <i>CE...</i>												
Signature <i>...</i>						Month Day Year 7 1 94						
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <i>W. J. Herbold</i>												
Signature <i>W. J. Herbold</i>						Month Day Year 9 13 94						
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Signature Month Day Year												

Please print or type. Form designed for use on 4-line (12-pitch) typewriter.

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AK00000228095	Manifest Document No A1025		2. Page 1 of 2	Information in the shaded areas is not required by Federal law				
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Bangorsadq AT 32.25 miles. Savoonga, AK 99759					A. State Manifest Document Number					
4. Generator's Phone (907) 353-6131					B. State Generator's ID					
5. Transporter 1 Company Name Trans Arctic LTD					6. US EPA ID Number AK00000204457		C. State Transporter's ID			
7. Transporter 2 Company Name Northwest EnviroService, Inc.					8. US EPA ID Number WA0058367132		D. Transporter's Phone (206) 244-2146			
9. Designated Facility Name and Site Address Northwest EnviroService, Inc. 1500 Airport Way South Seattle, WA 98134					10. US EPA ID Number WA0058367132		E. State Transporter's ID			
							F. Transporter's Phone (206) 622-1090			
							G. State Facility's ID			
							H. Facility's Phone (206) 622-1090			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a.	Waste flammable liquids, n.o.s. diesel oil B. UN1990. PGIII (D001-100P) (ERG#27)				3	DM	2055	0	D001
	b.	Combustible liquid, n.o.s. (lube oil) Combustible liquid, NA1995. PGIII (ERG#27)				1 350	DM	200 200 200	2	
	c.									
	d.									
J. Additional Descriptions for Materials Listed Above a) WPQ AK486+ - Diesel, lube oil, water, 120-8 b) WPQ AK486J- Lube oil, diesel and water, 120-9					K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information **Please mail manifest to: USArmy USACE Northeast Cape, P.O. Box 390 LORD# Anchorage, AK 99506-0898										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name <i>Kenneth S Boyles</i>					Signature <i>Kenneth S Boyles</i>			Month Day Year <i>9/13/94</i>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed/Typed Name <i>K. V. Klemm</i>				Signature <i>K. V. Klemm</i>		Month Day Year <i>9/13/94</i>			
	18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>N. J. Hochindahl</i>				Signature <i>N. J. Hochindahl</i>		Month Day Year <i>9/13/94</i>				
19. Discrepancy Indication Space										
CITY	20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
	Printed/Typed Name					Signature			Month Day Year	

* FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5689

Print or type. (Form designed for use on 12-pitch typewriter.)

Form Approved. OMB No. 2050-0030. Expires 10-30-91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1325	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.	
23. Generator's Name US Army USACE Northeast Camp Kanguksam MT 52.25 miles, Savoonga, AK 99769 (907) 353-6131			State Manifest Document Number		State Generator's ID	
24. Transporter <u>3</u> Company Name Northland Services			25. US EPA ID Number WA0981773005	State Transporter's ID		Transporter's Phone (206) 763-3000
26. Transporter <u>4</u> Company Name Northwest EnviroService, Inc.			27. US EPA ID Number WA0858367152	State Transporter's ID		Transporter's Phone (206) 622-1090
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a. ...			No. Type			
b. ...						
c. ...						
d. ...						
e. ...						
f. ...						
g. ...						
h. ...						
i. ...						
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above		
32. Special Handling Instructions and Additional Information						
33. Transporter <u>3</u> Acknowledgement of Receipt of Materials			Signature <i>Ray Howard</i>		Date 9 22 94	
Printed/Typed Name Ray Howard for Northland Service			Signature		Date	
33. Transporter <u>4</u> Acknowledgement of Receipt of Materials			Signature		Date	
Printed/Typed Name			Signature		Date	
35. Discrepancy Indication Space						



**Northwest
EnviroService
Inc.**

FACSIMILE TRANSMISSION SHEET

Date: 9/14/94

Time: _____

Job No.: _____

From: Larry Wilkinson
 Northwest EnviroService, Inc.
 Anchorage, Alaska
 Ph. (907) 272-9007 Fax: (907) 272-6805

To: Ron Broyles

Company: COE

Fax#: 353-7070

Number of Pages including this sheet: 6

MESSAGE: The drums didn't all fit into
2 connex's so we split off seven (7)
non-hazardous wastes to be shipped
by Northland in a third connex on attached B/L.
Note that these two items were on
manifest A1328 (line 1(b)) and A1329 line 2(d)

** If you do not receive all pages, please call (907) 272-9007.

This message is intended for the use of the individual or entity to which it is transmitted and may contain information that is privileged, confidential and exempt from disclosure under applicable laws. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately and return the original communication to us at the address below via U.S. Postal Service. We will reimburse you for the mailing costs. Thank You.

Please express to Northland in Nome with a copy to me if you agree to this remedy. Please call on deleting the above lines.



FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5689

9-30-94

base print or type. (Form designed for use on a 12-pitch typewriter.)

Form Approved, OMB No. 2060-0039. Expires 01/95

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1328	2. Page 1 of 2	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kangukhsan MT 52.25 miles, Savoonga, AK 99769				A. State Manifest Document Number				
4. Generator's Phone (907) 353-6131				B. State Generator's ID				
5. Transporter 1 Company Name Trans Arctic LTD		6. US EPA ID Number WAD000202457		C. State Transporter's ID				
7. Transporter 2 Company Name Northwest EnviroService, Inc.		8. US EPA ID Number WAD058367152		D. Transporter's Phone (206) 244-2146				
9. Designated Facility Name and Site Address Northwest EnviroService, Inc. 1500 Airport Way South Seattle, WA 98134		10. US EPA ID Number WAD058367152		E. State Transporter's ID				
				F. Transporter's Phone (206) 622-1090				
				G. State Facility's ID				
				H. Facility's Phone (206) 622-1090				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste paint 3, UN1263, PGII (D001-100P) (ERG#26)					No. 9	Type DM	3842	P D001 D009 WT01
b. Non-hazardous waste, liquid DELETED					5 RSD	DM	2000 2147 RSD	P
c. Caustic alkali liquids, n.o.s. (sodium sesquicarbonate) A, UN1719, PGII (ERG#60)					1	DM	500	P
d. RSB								
J. Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above			
a) WPQ 900732 - Paint-flammable, mercury, non F-listed halogenated organic compounds (1% (GENERIC WPQ), F-5er (SYS)								
b) WPQ AK4913 - Soap w/sodium tetraborate, sodium sesquicarbonate, sodium salts of coconut & tallow fatty acids,								
15. Special Handling Instructions and Additional Information lanolin as constituents of product, API (NM) c) WPQ AK4915 - Soap w/sodium tetraborate, sodium sesquicarbonate, sodium salts of coconut & tallow fatty acids, lanolin as constituents of product, API (NM) **Please mail manifest to: USArmy USACE Northeast Cape, P.O. Box 890, Anchorage, AK 99506-0898 LOAD#								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway air, rail & water according to applicable international and national government regulations.								
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Ronald S. Boyles On behalf of the USArmy Corps of Engineers			Signature Ronald S. Boyles		Month Day Year 9/13/94			
17. Transporter 1 Acknowledgement/Receipt of Materials			Signature [Signature]		Month Day Year 9/13/94			
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature [Signature]		Month Day Year 9/13/94			
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name			Signature		Month Day Year			

FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***
210-5689

See print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0020, Expires 03/31/91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1328	22. Page 2 of 2	Information in the shaded areas is not required by Federal law.		
23. Generator's Name US Army USACE Northeast Cape Kanguksap MT 52.25 miles, Savoonga, AK 99769 (907) 353-6131				L. State Manifest Document Number			
24. Transporter Company Name Northland Services				25. US EPA ID Number WA0981773005		N. State Transporter's ID	
26. Transporter Company Name Northwest EnviroService, Inc.				27. US EPA ID Number WA0058367152		O. Transporter's Phone (206) 763-3000	
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				29. Containers		30. Total Quantity	31. Unit Wt/Vol
				No.	Type		R. Waste No.
a.							
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							
j.							
k.							
l.							
S. Additional Descriptions for Materials Listed Above				T. Handling Codes for Wastes Listed Above			
22. Special Handling Instructions and Additional Information							
33. Transporter Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name LARRY HOWARD				Signature <i>Larry Howard</i>		Month Day Year 9 22 94	
34. Transporter Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature		Month Day Year	
35. Discrepancy Indication Space							

RSB

MANIFEST DISCREPANCY

Date: 11.27.94 Employee: Randy Engle
Generator: US ARMY NE CASE WPQ 600732
Manifest Number: A132B Line: 1a
D.O. / Item AK Comm - Drum Number: 47B750, 749

What does the drum say it is and what is its process code?

Waste Paint, Systech

What is the discrepancy?

received 2 extra drums (11 instead of 9)

Lab Failed Verification Yard Failed Verification

FOR MANIFEST ROOM USE ONLY

WPQ change CLIN change

Line Split D.O. Item to Manifest Line

Returned to Generator

Billie -

Received a couple
extra drums. Ok to
write discrep?

[Handwritten signature]

ESD discrepancy letter

Please print or type (Form designed for use on elite (12-pin) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No AK0000228395	Manifest Document No A1329		2. Page 1 of 2	Information in the shaded areas is not required by Federal law			
3. Generator's Name and Mailing Address USArmy USACE Northeast Cape Kangukhsa MT 52.25 miles, Savoonga, AK 99769					A. State Manifest Document Number				
4. Generator's Phone (907) 353-6131					B. State Generator's ID				
5. Transporter 1 Company Name Trans Arctic LTD			6. US EPA ID Number WAD000202457		C. State Transporter's ID				
7. Transporter 2 Company Name Northwest EnviroService, Inc.			8. US EPA ID Number WAD058367152		D. Transporter's Phone (206) 244-2146				
9. Designated Facility Name and Site Address Northwest EnviroService, Inc. 1500 Airport Way South Seattle, WA 98134			10. US EPA ID Number WAD058367152		E. State Transporter's ID				
					F. Transporter's Phone (206) 622-1090				
					G. State Facility's ID				
					H. Facility's Phone (206) 622-1090				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total	14. Unit	15. Waste No.
						No.	Quantity	Wt/Vol	
a. Hazardous waste, liquid, n.o.s. (mercury) 9, NA3082. PGIII (ERG#31)						5	1752	P	D009 WT02
b. Waste flammable liquids, n.o.s. (acetone, toluene) 3, UN1993. PGIII (D001-100P) (ERG#27)						1	340	P	D001 D004 D005 D006 D007 D008 D009 D010 D011
c. *** CONTINUATION OF LINE 1b ***									D018 D023 D024 D025 D026 D025 F003 F004 F005
d. *** CONTINUATION OF LINE 1b ***									WT02 WC02
J. Additional Descriptions for Materials Listed Above a) WPQ AK4865 - Latex loose pack, mercury >0.2-(20ppm, D-Ser(M) b) WPQ 800908 - Acetone, toluene, xylene, ethylbenzene, MEK, isobutanol, MIBK, cresols, nitrobenzene, benzene, arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, (GENERIC WPQ), 120-B						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information **Please mail manifest to: USArmy USACE Northeast Cape, P.O. Box 890 LOAD# Anchorage, AK 99506-0898									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are truly and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, air, rail & water according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name					Signature			Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19									
Printed/Typed Name					Signature			Month Day Year	

*** FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 622-1090. ***

210-8689

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved. QMB No. 2050-0039. Expires 4-30-91

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator's US EPA ID No. AK0000228395	Manifest Document No. A1329	22. Page 2 of 2	information in the shaded areas is not required by Federal law.	
23. Generator's Name US Army USACE Northeast Cape Kanguksan, MT 52.25 miles, Savoonga, AK 99769 (907) 353-6131			L. State Manifest Document Number		M. State Generator's ID	
24. Transporter Company Name Northland Services		25. US EPA ID-Number AK0000177005		N. State Transporter's ID		O. Transporter's Phone (206) 763-3000
26. Transporter Company Name Northwest Service Service, Inc		27. US EPA ID-Number AK00058367152		P. State Transporter's ID		Q. Transporter's Phone (206) 622-1090
28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			29. Containers	30. Total Quantity	31. Unit	R. Waste No.
a. <input checked="" type="checkbox"/> Waste poisonous solids; corrosive, D-ER-1 (oxalic acid), UN2928. PGI (ERG#59)			1	DM	26	WT01 0002
b. <input checked="" type="checkbox"/> Waste sodium hydroxide, solid, UN1823. PGII (ERG#60)			2	DM	227	WT02 0002
c. <input checked="" type="checkbox"/> Waste isopropanol alcohol, UN1219. PGII (ERG#26)			1	DM	53	WT02 0001
Non-hazardous waste			2	DM	251	WT02 0002
d. <input checked="" type="checkbox"/> Waste aluminum chloride, solution, UN2581. PGIII (ERG#60)			1	DM	23	WT02 0002
e. <input type="checkbox"/>						
f. <input type="checkbox"/>						
g. <input type="checkbox"/>						
h. <input type="checkbox"/>						
i. <input type="checkbox"/>						
S. Additional Descriptions for Materials Listed Above: 2a) WPG AK4907-Oxalic acid (Dermal LD50 20mg/kg) (WA State 0002 only), D-Ser(NM) +Label: Corrosive 2b) WPG AK4908-Sodium hydroxide (WA State 0002 only), D-Ser(NM) 2c) WPG AK4568-Reagent grade isopropyl alcohol, (20-B 2d) WPG AK4909-Septic tank cleaner enzymes, NRS				T. Handling Codes for Wastes Listed Above		
32. Special Handling Instructions and Additional Information 2e) WPG AK4909-Aluminum chloride, HWP-A						
33. Transporter Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
34. Transporter Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
35. Discrepancy Indication Space						



**Northwest
EnviroService
Inc.**

1700 Airport Way South
Seattle, WA 98134
Phone 206-622-1090
1-800-441-1090

14509

Page 1 of 1

SHIPPING PAPER	DELIVERY DATE	JOB #
SHIPPER USArmy USACE Northeast Cape	POINT OF CONTACT Cpt. M. Malson, Project Eng.	210-5689
ADDRESS Kangukhsa MT 52.25 miles	PHONE # (907) 353-6131	
CITY, STATE, ZIP Savoonga, AK 99769		
CARRIER Northland Services	PHONE # (206) 763-3000	
CONSIGNEE Northwest EnviroService, Inc.	POINT OF CONTACT Steve Halstead	
ADDRESS 1500 Airport Way South	PHONE # (206) 622-1090	
CITY, STATE, ZIP Seattle, WA 98134		

HM	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers		Total	
		No.	Type	Quantity	
A	Non-hazardous waste, liquid	5	DM	2147	P
	Non-hazardous waste, solid	2	DM	251	P
C					
D					

Special Handling Instruction and Additional Information a) WPQ AK4913-Soap w/sodium tetraborate, sodium sesquicarbonate, sodium salts of coconut & tallow fatty acids, lanolin as constituents of product, API(NM)
b) WPQ AK4909-Septic tank cleaner enzymes, NRS **Please mail B/L to: USArmy USACE Northeast Cape, P.O. Box 890, Anchorage, AK 99506-0898 Emergency Phone # (206) 622-1090

Placards Provided YES _____ NO _____

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

PRINT OR TYPE NAME <i>Ronald S. Boyles</i>	SIGNATURE <i>Ronald S. Boyles</i>	DATE MONTH 9 DAY 15
X On behalf of the U.S. Army Corps of Engrs.		
CARRIER (PRINT OR TYPE NAME) X	SIGNATURE X	DATE MONTH DAY
CONSIGNEE (PRINT OR TYPE NAME) X	SIGNATURE X	DATE MONTH DAY

