


Del's copy

SUBMITTAL NO. 10	COC CLAUSE <input type="checkbox"/> IS APPLICABLE <input checked="" type="checkbox"/> IS NOT APPLICABLE	
REFERENCES TO USE WHEN COC CLAUSE IS APPLICABLE	PART I - FOR CONTRACTOR USE	
(A) ROICC/REICC	FROM (Contractor) SEVERSON CONSTRUCTION	TO (A) ROICC NAVAL SUB. BASE BANGOR
(B) (Check one) <input checked="" type="checkbox"/> RECORD <input type="checkbox"/> APPROVAL	CONTRACT NO N44255-95-D-6006	
	CONTRACT TITLE Storage Tank Removals, Instalations	
	THE FOLLOWING ITEM IS SUBMITTED FOR (B) PER SPECIFICATION SECTION NUMBER SITE REMEDIATION REPORT	
	CERTIFICATION (This form shall not be used to forward proposed substitutions) IT IS HEREBY CERTIFIED THAT THE <input type="checkbox"/> EQUIPMENT <input type="checkbox"/> MATERIAL SHOWN AND MARKED IN THIS SUBMITTAL IS THAT PROPOSED TO BE INCORPORATED INTO CONTRACT IS IN COMPLIANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND CAN BE INSTALLED IN THE ALLOCATED SPACES. DO. #0017 TACOMA RESERVE CENTER	
(C) AUTHORIZED CONTRACTOR QUALITY CONTROL REPRESENTATIVE	CERTIFIED BY (C) 	DATE 3-28-97
	PART II - FOR DESIGNER USE	
	FROM (Designer) TZDA	TO (ROICC/REICC) Silverdale
(D) CURSORY REVIEW REQUIRED ON RECORD COPIES - REPLY TO ROICC ONLY IF APPROPRIATE. DETAILED REVIEW REQUIRED ON SUBMITTALS FOR GOVERNMENT APPROVAL STAMP AND MARK EACH COPY AS APPROPRIATE.	THIS SUBMITTAL HAS BEEN REVIEWED (D). THE FOLLOWING RECOMMENDATION IS MADE: No exceptions noted. Report sent to WDOE. See attached xmtl letter Deji 5/8/97	
	SIGNATURE W. Carreola	DATE 4/17/97
	PART III - FOR ROICC/REICC USE	
(E) DESIGNER (Copy to OICC)	FROM (ROICC/REICC)	TO (E)
	ENCLOSURES ARE RETURNED WITH THE FOLLOWING COMMENTS:	
	SIGNATURE	DATE

REFERENCES TO USE WHEN COC CLAUSE IS NOT APPLICABLE

(A) DESIGNER

(B) APPROVAL

(C) PERSON DESIGNATED BY CONTRACTOR AS HAVING AUTHORITY TO SIGN CERTIFICATION

(D) DETAILED REVIEW REQUIRED. STAMP AND MARK EACH COPY AS APPROPRIATE

(E) CONTRACTOR
(Copy to OICC)

97 MAR 31 AM 19

SEVERSON CONSTRUCTION

4815 54TH S.W.
 SEATTLE WASHINGTON 98116
 TEL (206) 937-3604
 FAX (206) 938-1831
 FAX (206) 284-4186

DATE 3-28-97	JOB NO. D-0006
ATTENTION LES GARDEN	
TO ROICC SILVERDALE	
RE: TACOMA RESERVE CENTER	
BLDG. 1009	
D.O. #17	
NAVAL SUB BASE BANGSON	
SILVERDALE, WA 98315	

WE ARE SENDING YOU ATTACHED UNDER SEPARATE COVER VIA _____
 THE FOLLOWING ITEMS:

<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> PRINTS	<input type="checkbox"/> COPY OF LETTER	SAMPLES	SPECIFICATIONS
<input type="checkbox"/> CHANGE ORDER	<input type="checkbox"/> PLANS	<input checked="" type="checkbox"/> SUBMITTALS		

		DESCRIPTION
7		SITE REMEDIATION REPORT

ALL CHECKED BELOW

<input checked="" type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> APPROVED AS SUBMITTED	<input type="checkbox"/> RESUBMIT _____ COPIES FOR APPROVAL
<input type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURNED FOR CORRECTIONS	<input type="checkbox"/> SUBMIT _____ COPIES FOR DISTRIBUTION
<input type="checkbox"/> AS REQUESTED	<input type="checkbox"/> FOR REVIEW AND COMMENT	<input type="checkbox"/> RETURN _____ CORRECTED PRINTS
<input type="checkbox"/> APPROVED AS NOTED	<input type="checkbox"/> FOR BIDS DUE _____ 19 _____	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

COPY TO _____ SIGNED: 

PLEASE NOTIFY US AT ONCE IF ENCLOSURES ARE NOT AS NOTED.

ROUTINE REPLY, ENDORSEMENT, TRANSMITTAL OR INFORMATION SHEET

OPNAV 5216/158 (Rev. 7-78)
SN 0107-LF-052-1691

A WINDOW ENVELOPE MAY BE USED
Formerly NAVEXOS 3789

CLASSIFICATION (UNCLASSIFIED when detached from enclosures, unless otherwise indicated)

FROM (Show telephone number in addition to address)

Del Arreola, Jr. (see remarks)

DATE 5/8/97

SUBJECT N44255-95-D-6006, D.O.# 0017 Removal of Oil Pollution Control Sys, NMCRC, Tacoma, WA.

SERIAL OR FILE NO.

TO: Washington Department of Ecology (WDOE) Northwest Region 3190-160th SE Bellevue, WA 98008 Attn: Joe Hickey (206) 649-7202

REFERENCE

ENCLOSURE

Soil Remediation Report for NMCRC Tacoma, WA dtd March 25, 1997

VIA: _____ ENDORSEMENT ON _____

FORWARDED RETURNED FOLLOW-UP, OR TRACER REQUEST SUBMIT CERTIFY MAIL FILE

GENERAL ADMINISTRATION	CONTRACT ADMINISTRATION	PERSONNEL
<input checked="" type="checkbox"/> FOR APPROPRIATE ACTION UNDER YOUR COGNIZANCE	NAME & LOCATION OF SUPPLIER OF SUBJECT ITEMS	REPORTED TO THIS COMMAND:
<input checked="" type="checkbox"/> INFORMATION	SUBCONTRACT NO. OF SUBJECT ITEM	DETACHED FROM THIS COMMAND
APPROVAL RECOMMENDED <input type="checkbox"/> YES <input type="checkbox"/> NO	APPROPRIATION SYMBOL, SUBHEAD, AND CHARGEABLE ACTIVITY	OTHER
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	SHIPPING AT GOVERNMENT EXPENSE <input type="checkbox"/> YES <input type="checkbox"/> NO	
COMMENT AND/OR CONCURRENCE	A CERTIFICATE, VICE BILL OF LADING	
CONCUR	COPIES OF CHANGE ORDERS, AMENDMENT OR MODIFICATION	
LOANED. RETURN BY:	CHANGE NOTICE TO SUPPLIER	
SIGN RECEIPT & RETURN	STATUS OF MATERIAL ON PURCHASE DOCUMENT	
REPLY TO THE ABOVE BY:		

REFERENCE NOT RECEIVED	REMARKS (Continue on reverse)
SUBJECT DOCUMENT FORWARDED TO:	
SUBJECT DOCUMENT RETURNED FOR:	
SUBJECT DOCUMENT HAS BEEN REQUESTED, AND WILL BE FORWARDED WHEN RECEIVED	
COPY OF THIS CORRESPONDENCE WITH YOUR REPLY	
ENCLOSURE NOT RECEIVED	
ENCLOSURE FORWARDED AS REQUESTED	
ENCLOSURE RETURNED FOR CORRECTION AS INDICATED	
CORRECTED ENCLOSURE AS REQUESTED	
REMOVE FROM DISTRIBUTION LIST	
REDUCE DISTRIBUTION AMOUNT TO:	

From: Engineering Field Activity, NW Naval Facilities Engineering Command 19917-7th Ave. NE Poulsbo, WA 98370-7570 (360) 396-0225

SIGNATURE & TITLE: *D. Arreola, Jr.* DESIGN MANAGER 5/8/97

COPY TO: File

CLASSIFICATION (UNCLASSIFIED when detached from enclosures, unless otherwise indicated)

SEVERSON CONSTRUCTION

4815 54TH S.W.
 SEATTLE WASHINGTON 98116
 TEL (206) 937-3604
 FAX (206) 938-1831
 FAX (206) 284-4186

LETTER OF TRANSMITTAL

DATE 3-28-97 JOB NO. D-0006

ATTENTION LES GARDEN

TO ROICC SILVERDALE
BLDG. 1009
NAVAL SUB BASE BANSON
SILVERDALE, WA 98315

RE: TACOMA RESERVE CENTER
D.O. #17

WE ARE SENDING YOU ATTACHED UNDER SEPARATE COVER VIA _____
 THE FOLLOWING ITEMS:
 SHOP DRAWINGS PRINTS COPY OF LETTER SAMPLES SPECIFICATIONS
 CHANGE ORDER PLANS SUBMITTALS


COPIES	DATE	NO.	DESCRIPTION
7			SITE REMEDIATION REPORT

REASONS FOR TRANSMITTAL CHECKED BELOW:

FOR APPROVAL APPROVED AS SUBMITTED RESUBMIT _____ COPIES FOR APPROVAL
 FOR YOUR USE RETURNED FOR CORRECTIONS SUBMIT _____ COPIES FOR DISTRIBUTION
 AS REQUESTED FOR REVIEW AND COMMENT RETURN _____ CORRECTED PRINTS
 APPROVED AS NOTED
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS

LUHT
NUW Request Off the
of DOE
Attn: Joe Hicken



COPY TO _____ SIGNED: _____

March 25, 1997

RE: Contract Number: N44255-95-D-6006/ D.O. #0017
Project Title: Underground Storage Tank Removals At Various Pacific Northwest Naval Facilities

Delivery Order (D.O.): This D.O. is in response to the following EFA-NW ESRs for the Naval and Marine Corps Reserve Center (NAVMARCORESCEN), Tacoma, WA:

1. NW6019 (FIS 9604.020), dated 01 February, 1996
2. NW6020 (FIS 9604.021), dated 01 February 1996; and
3. FIS N9604.063, dated 30 April 1996.

Subject: Aboveground Storage Tank Removals and Environmental Site Remediation Report
Naval Reserve Center - 1100 East Alexander Avenue East
Tacoma, Washington 98424, USA

The following site remediation report documents the environmental soil remediation activities performed by Severson Construction following aboveground storage tank (AST) decommissioning at the above-referenced site. Severson performed this work in conjunction with the Naval Facilities Engineering Command, Northwest (NAVFACENGCOM) during December, 1996 thru February, 1997.

EXECUTIVE SUMMARY

This scope of work was to remove the oil pollution control system which involves collection and treatment of oil wastewater generated by the homeported vessels. Specifically, the following ASTs and associated piping were removed from the site:

1. One 1,500-2,000 gallon cylindrical AST;
2. One 25-gallon per minute (gpm), three stage, skid mounted oil water separator; and
3. One 700 gallon rectangular AST.

Following the removal of these AST systems, as per the above-referenced D.O. modification, Severson collected soil samples to determine whether petroleum-impacted soil was present above Washington Department of Ecology (WDOE) Model Toxics Control Act (MTCA)-acceptable levels. Soil samples were collected according to the above-referenced D.O. Specifically, two samples from directly below the bermed area (T-1 and T-2) and three surface soil samples were collected from the stained soil along the northern edge of the bermed area (T-3, T-4 and T-5). See *Figure 1 - Site Plan, Table 1 and Site Photos (see Appendix c)*.

All five of these surface soil samples were above MTCA-allowable Method A Cleanup Levels for diesel- and oil-range petroleum hydrocarbons and Severson proceeded with the overexcavation and disposal/ treatment of the affected soils. No groundwater was encountered during this project.

Based on field testing of the soils, Severson excavated approximately three to five feet of the affected soil and re-sampled the excavation bottom (Sample Numbers OX-1 thru OX-5, *see Figure 1 - Site Plan*). Laboratory results from these samples confirmed that petroleum concentrations were below MTCA-Method Levels for three of the five samples.

Severson excavated an additional foot of soil from the areas with concentrations above the acceptable levels (OX-2 and OX-4) and re-sampled the soil in these areas (OX-2-1 and OX-4-1). Laboratory results confirmed that petroleum concentrations from these samples were within MTCA Method A-acceptable levels.

Metals analysis from composite stockpile soil samples (SS Comp #1 and #2) were within MTCA-acceptable limits and the petroleum-affected soil could be treated at TPS Technologies' facility in Tacoma, Washington (see *Figure 1 and Table 1*). Laboratory data sheets are provided in Appendix A.

Approximately 70 tons of affected soil was transported to TPS Technologies in Tacoma, Washington for thermal treatment (see *Appendix B*).

The environmental soil remediation was performed in accordance with project specification requirements of NAVFACENGCOM and followed relevant Washington Department of Ecology (WDOE) guidance document—The Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC (MTCA-amended January 1996).

ENVIRONMENTAL SETTING

The subject property is situated in the eastern side of Commencement Bay, Tacoma, Washington. The Hylebos Waterway is adjacent to the site on its northern property line. Alexander Avenue is adjacent to the southwestern property line and East Eleventh Street along the southeastern side of the property. The topography in the vicinity of the subject property is flat.

Native soils in the vicinity of the subject property consists primarily of soft to medium-stiff clayey silt with fine sand interbeds. Groundwater is estimated to be at about seven to eight feet below the ground surface (bgs).

FIELD SAMPLING METHODS

The objective of the sampling program was to verify through laboratory chemical analysis that all of the affected materials have been removed to MTCA-acceptable levels. The sampling protocols and procedures followed appropriate state and federal guidance documents, primarily EPA SW-846 and WDOE guidance document (WAC 173-360-610) recommendations. The quality assurance/ quality control procedures ensured that the data used to document these results is reliable.

Discrete soil samples were collected directly from the pit bottom using properly decontaminated soil sampling tools and were placed directly into laboratory-supplied glass jars and were assigned unique sample numbers. The samples were surface cleaned, individually plastic bagged, placed into a rigid cooler, chilled to approximately 4 degrees Centigrade and hand-delivered to CCI Analytical Laboratories, Inc. in Everett, Washington for testing. CCI is an EPA- and WDOE-approved laboratory.

FIELD SAMPLING AND CHEMICAL ANALYSIS

Surface soil sampling and analysis confirmed that diesel- and oil-range petroleum hydrocarbons were present and that excavation of the affected soils was necessary. The removals continued vertically and laterally to the point where visual indication and field screening tools indicated that the contamination had been removed and that concentrations of total petroleum hydrocarbons remaining in the soil were less than the WDOE's targeted MTCA cleanup levels (see Table 1 and Figure 1).

Discrete soil samples were then collected from the bottom of the excavation to confirm that the targeted MTCA - Method A Cleanup Levels for petroleum-impacted soil were achieved. Prior to sample collection for chemical analysis, field screening was performed in the targeted areas to determine the extent of the excavations. Field tests included visual observations (stained soil), petroleum odors and head space testing on discrete soils samples using a Photovac MicroTIP Photoionization detector (PID). The PID was properly calibrated prior to use with isobutylene gas.

Soil samples were chemically analyzed for petroleum compounds using WTPH-HCID analysis followed by the appropriate hydrocarbon-range analysis. Also, the stockpiled soil was chemically analyzed for metal concentrations prior to transport to TPS for treatment. These results confirm that metal concentrations for all RCRA metals are within MTCA-acceptable concentrations (see Appendix A - Laboratory Data).

SOIL REMEDIATION

Approximately 70 tons of petroleum-impacted soil was transported to TPS Technologies, Inc. in Tacoma, Washington for thermal treatment (see Appendix B - Waste Manifests).

Laboratory results from soil samples collected from the excavation have confirmed that concentrations of total petroleum hydrocarbons remaining in the soil are less than the WDOE's targeted MTCA Method A cleanup levels. No further testing or other investigations associated with project are recommended.

CLOSURE

This report is directed toward the decommissioning of ASTs specifically described in this report and should in no way be confused with any other investigation. This report has been prepared under the project specifications for the Naval Facilities Engineering Command and the guidance and requirements outlined in WDOE's MTCA guidance. No other conditions, expressed or implied, should be understood.

Respectfully Submitted,

SEVERSON CONSTRUCTION


Roger Newton
Registered Site Assessor

TABLE 1 LABORATORY ANALYTICAL RESULTS				
Sample Number	Date Sampled	Depth (feet)	Laboratory Analysis	Results (mg/kg)
T-1	12/17/96	1.0	418.1	400
T-2	12/17/96	1.0	418.1	250
T-3	12/17/96	1.0	418.1	1400
T-4	12/17/96	1.0	418.1	2900
T-5	12/17/96	1.0	418.1	700
OX-1	2/13/97	4.0	418.1	130
OX-2	2/13/97	3.0	418.1	400
OX-3	2/13/97	4.5	418.1	130
OX-4	2/13/97	4.5	418.1	460
OX-5	2/13/97	5.0	418.1	non-detect
SS COMP-#1	2/13/97	Stockpile	TCLP Metals	<MTCAs
SS-COMP-#2	2/13/97	Stockpile	TCLP Metals	<MTCAs
OX-4-1	2/21/97	5.5	418.1	non-detect
OX-2-1	2/21/97	4.0	418.1	non-detect

WDOE MTCAs Method A Cleanup Levels = 200 mg/kg

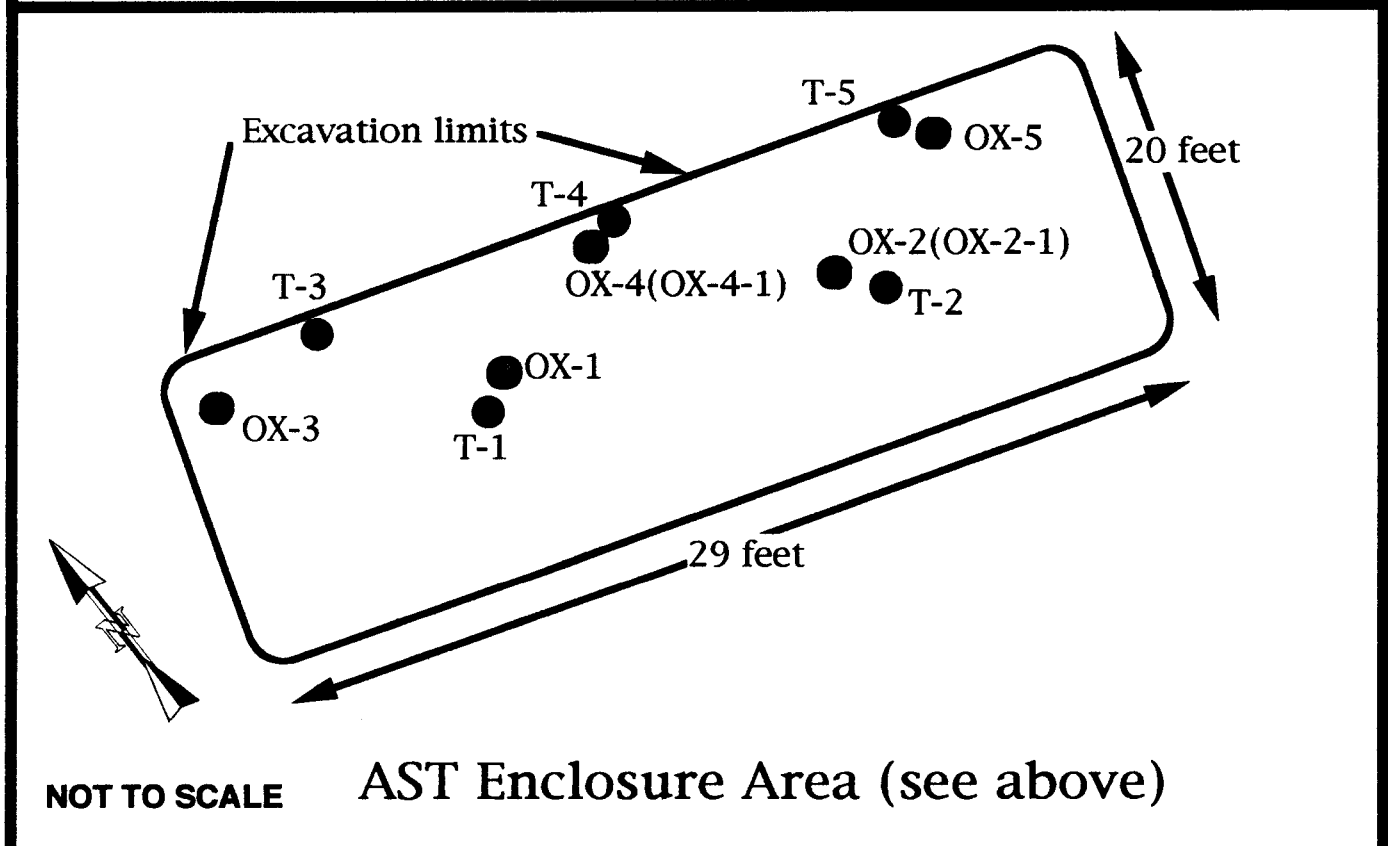
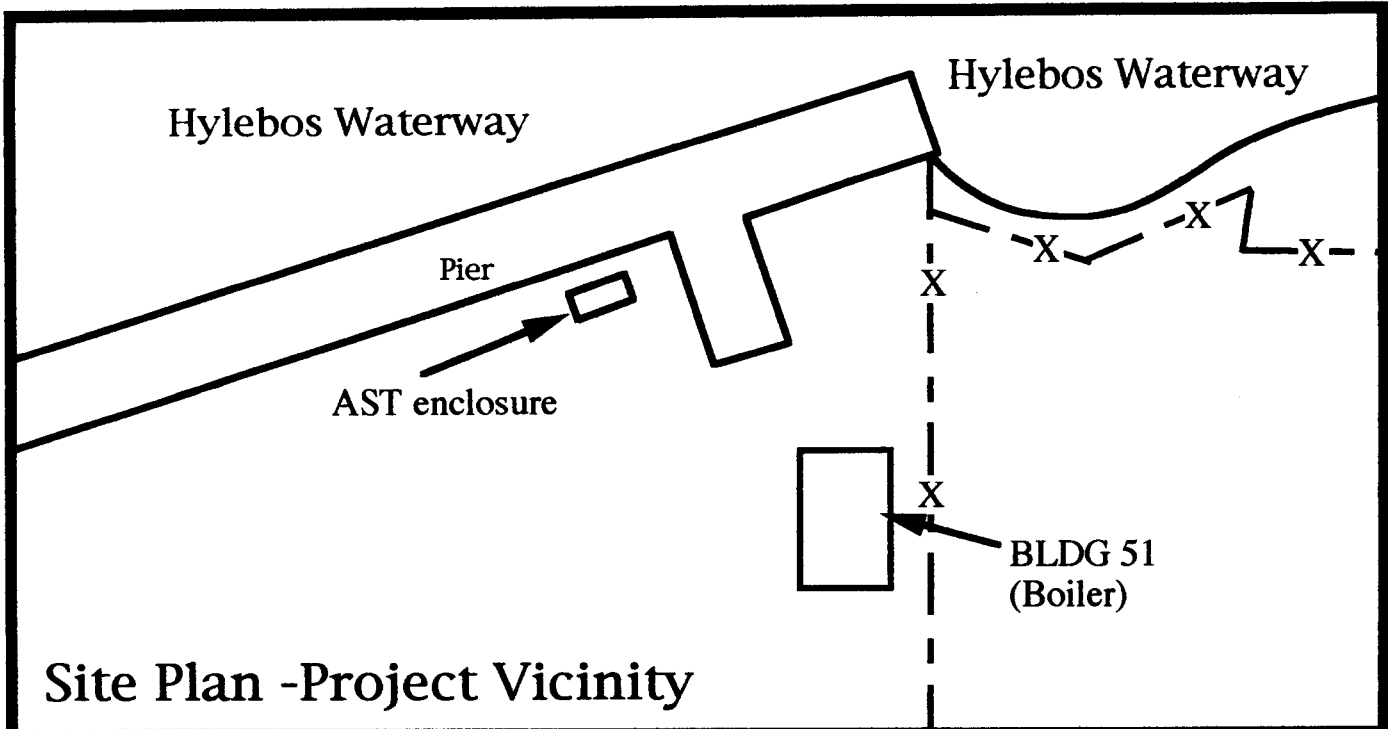


FIGURE 1 -SITE PLAN MAP
NAVMARCORESCEN, TACOMA, WA CLEANUP REPORT
Source: SEVERSON CONSTRUCTION, December 1996

APPENDIX A
LABORATORY DATA RESULTS



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/20/96
CCIL JOB #: 612065
CCIL SAMPLE #: 1
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-1 12/17/96 3:07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 12/20/96
 CCIL JOB #: 612065
 CCIL SAMPLE #: 2
 DATE RECEIVED: 12/18/96
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
 CLIENT SAMPLE ID: T-2 12/17/96 3:10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: C. J. [Signature]



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/20/96
CCIL JOB #: 612065
CCIL SAMPLE #: 3
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-3 12/17/96 3:19

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

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** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/20/96
CCIL JOB #: 612065
CCIL SAMPLE #: 4
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-4 12/17/96 3:16

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRH



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/20/96
CCIL JOB #: 612065
CCIL SAMPLE #: 5
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-5 12/17/96 3:12

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC

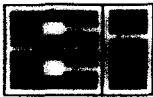
NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

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APPROVED BY: C121



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/20/96
CCIL JOB #: 612065

DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
612065-01	WTPH-HCID	BCB	95
612065-01	WTPH-HCID	C25	108
612065-01(4 TO 1)	WTPH-HCID	C25	113
612065-02	WTPH-HCID	BCB	96
612065-02	WTPH-HCID	C25	114
612065-02(4 TO 1)	WTPH-HCID	C25	102
612065-03	WTPH-HCID	BCB	98
612065-03	WTPH-HCID	C25	116
612065-03(4 TO 1)	WTPH-HCID	C25	97
612065-04	WTPH-HCID	BCB	96
612065-04	WTPH-HCID	C25	104
612065-04(4 TO 1)	WTPH-HCID	C25	92
612065-05	WTPH-HCID	BCB	98
612065-05	WTPH-HCID	C25	110
612065-05(4 TO 1)	WTPH-HCID	C25	96

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/31/96
CCIL JOB #: 612065
CCIL SAMPLE #: 1
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-1 12/17/96 3:07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC
TPH-HEAVY OIL	WTPH-418.1	400	MG/KG	200MG/KG	12/31/96	RLF

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/31/96
CCIL JOB #: 612065
CCIL SAMPLE #: 2
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-2 12/17/96 3:10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC
TPH-HEAVY OIL	WTPH-418.1	250	MG/KG	200MG/KG	12/31/96	RLF

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:  _____



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 12/31/96
CCIL JOB #: 612065
CCIL SAMPLE #: 3
DATE RECEIVED: 12/18/96
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
CLIENT SAMPLE ID: T-3 12/17/96 3:19

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC
TPH-HEAVY OIL	WTPH-418.1	1400	MG/KG	200MG/KG	12/31/96	RLF

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 12/31/96
 CCIL JOB #: 612065
 CCIL SAMPLE #: 4
 DATE RECEIVED: 12/18/96
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
 CLIENT SAMPLE ID: T-4 12/17/96 3:16

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC
TPH-HEAVY OIL	WTPH-418.1	2900	MG/KG	200MG/KG	12/31/96	RLF

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 12/31/96
 CCIL JOB #: 612065
 CCIL SAMPLE #: 5
 DATE RECEIVED: 12/18/96
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE #0017
 CLIENT SAMPLE ID: T-5 12/17/96 3:12

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
HCID-GAS RANGE	WTPH-HCID	ND(<20)	MG/KG GAS		12/19/96	AMC
HCID-DIESEL RANGE	WTPH-HCID	>50	MG/KG DSL		12/19/96	AMC
HCID-OIL RANGE	WTPH-HCID	>100	MG/KG OIL		12/20/96	AMC
TPH-HEAVY OIL	WTPH-418.1	700	MG/KG	200MG/KG	12/31/96	RLF

NOTE: DIESEL RANGE DETECTION IS MOST LIKELY DUE TO PRODUCT ELUTING FROM THE OIL RANGE

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 2/26/97
 CCIL JOB #: 702048
 CCIL SAMPLE #: 1
 DATE RECEIVED: 2/14/97
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
 CLIENT SAMPLE ID: OX-1 2/13/97 2:54

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	130	MG/KG	200MG/KG	2/19/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: *JLB*



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 2/26/97
CCIL JOB #: 702048
CCIL SAMPLE #: 2
DATE RECEIVED: 2/14/97
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
CLIENT SAMPLE ID: OX-2 2/13/97 3:21

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	400	MG/KG	200MG/KG	2/19/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: CRJ



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 2/26/97
 CCIL JOB #: 702048
 CCIL SAMPLE #: 3
 DATE RECEIVED: 2/14/97
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
 CLIENT SAMPLE ID: OX-3 2/13/97 2:56

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	130	MG/KG	200MG/KG	2/19/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 2/26/97
 CCIL JOB #: 702048
 CCIL SAMPLE #: 4
 DATE RECEIVED: 2/14/97
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
 CLIENT SAMPLE ID: OX-4 2/13/97 3:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	460	MG/KG	200MG/KG	2/19/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRP



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 2/26/97
CCIL JOB #: 702048
CCIL SAMPLE #: 5
DATE RECEIVED: 2/14/97
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
CLIENT SAMPLE ID: OX-5 2/13/97 3:15

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	2/19/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: 



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 2/26/97
CCIL JOB #: 702048
CCIL SAMPLE #: 6
DATE RECEIVED: 2/14/97
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
CLIENT SAMPLE ID: SS COMP #1 2/13/97 3:17

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TCLP ARSENIC	EPA-1311/7060	ND(<0.01)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP BARIUM	EPA-1311/7081	0.63	MG/L	100.0 MG/L	2/24/97	JLB
TCLP CADMIUM	EPA-1311/7130	ND(<0.01)	MG/L	1.0 MG/L	2/24/97	JLB
TCLP CHROMIUM	EPA-1311/7190	ND(<0.08)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP LEAD	EPA-1311/7420	ND(<0.3)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP MERCURY	EPA-1311/7470	ND(<.002)	MG/L	0.2 MG/L	2/25/97	JLB
TCLP SELENIUM	EPA-1311/7740	ND(<0.04)	MG/L	1.0 MG/L	2/24/97	JLB
TCLP SILVER	EPA-1311/7760	ND(<0.02)	MG/L	5.0 MG/L	2/24/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: CN



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
 1450 3RD AVE. WEST
 SEATTLE, WA 98119-3314

DATE: 2/26/97
 CCIL JOB #: 702048
 CCIL SAMPLE #: 7
 DATE RECEIVED: 2/14/97
 WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
 CLIENT SAMPLE ID: SS COMP #2 2/13/97 3:20

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TCLP ARSENIC	EPA-1311/7060	ND(<0.01)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP BARIUM	EPA-1311/7081	0.62	MG/L	100.0 MG/L	2/24/97	JLB
TCLP CADMIUM	EPA-1311/7130	ND(<0.01)	MG/L	1.0 MG/L	2/24/97	JLB
TCLP CHROMIUM	EPA-1311/7190	ND(<0.08)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP LEAD	EPA-1311/7420	ND(<0.3)	MG/L	5.0 MG/L	2/24/97	JLB
TCLP MERCURY	EPA-1311/7470	ND(<.002)	MG/L	0.2 MG/L	2/25/97	JLB
TCLP SELENIUM	EPA-1311/7740	ND(<0.04)	MG/L	1.0 MG/L	2/24/97	JLB
TCLP SILVER	EPA-1311/7760	ND(<0.02)	MG/L	5.0 MG/L	2/24/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: C142



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 2/25/97
CCIL JOB #: 702076
CCIL SAMPLE #: 1
DATE RECEIVED: 2/21/97
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
CLIENT SAMPLE ID: OX-4-1 2-21-97 1:30


DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	2/25/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:  _____



CERTIFICATE OF ANALYSIS

CLIENT: SEVERSON CONSTRUCTION
1450 3RD AVE. WEST
SEATTLE, WA 98119-3314

DATE: 2/25/97
CCIL JOB #: 702076
CCIL SAMPLE #: 2
DATE RECEIVED: 2/21/97
WDOE ACCREDITATION #: C142

CLIENT CONTACT: PAUL MASON

CLIENT PROJECT ID: TACOMA RESERVE
CLIENT SAMPLE ID: OX-2-1 2-21-97 1:30


DATA RESULTS

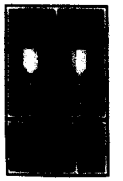
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-HEAVY OIL	WTPH-418.1	ND(<100)	MG/KG	200MG/KG	2/25/97	JLB

* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

** UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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APPROVED BY: 



CCI Analytical Laboratories, Inc.
 3229 Pine
 Everett, WA 98201
 Phone (206) 258-4548
 (206) 292-9059 Seattle
 (206) 259-6289 FAX

Chain of Custody / Laboratory Analysis Request

Date 12/18/96 Page 1 Of 1

ANALYSIS REQUESTED

OTHER (Specify)

PROJECT Tahoma Reserve # 0017
 PROJECT MANAGER Fru Mussen PH# 204 1229
 REPORT/INVOICE MAILING ADDRESS _____

SAMPLER'S NAME Key Shannon PH# 204 1229

SAMPLE ID.	DATE	TIME	TYPE	LAB #	WTPH-G	WTPH-D <input type="checkbox"/> 8015 MODIFIED <input type="checkbox"/>	WPTH-418.1	BTEX	WTPH-HCID	EPA 8020 <input type="checkbox"/> 602 <input type="checkbox"/>	EPA 8010 <input type="checkbox"/> 601 <input type="checkbox"/>	EPA 8240 <input type="checkbox"/> 624 <input type="checkbox"/> 8260 <input type="checkbox"/>	EPA 8270 <input type="checkbox"/> 625 <input type="checkbox"/>	EPA 8080 <input type="checkbox"/> 608 <input type="checkbox"/> PCB only <input type="checkbox"/> Pest only <input type="checkbox"/>	Metals Priority Pollutant <input type="checkbox"/> RCRA <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. T-1	12/17	3:07						X											
2. T-2	12/17	3:10						X											
3. T-3	12/17	3:19						X											
4. T-4	12/17/96	3:16	GMS					X											
5. T-5	12/17	3:12						X											
6. _____																			
7. _____																			
8. _____																			
9. _____																			
10. _____																			

SPECIAL INSTRUCTIONS 49 hrs turn around

POSSIBLE SAMPLE HAZARDS _____

SIGNATURES (Name, Company, Date, and Time):

1. Relinquished By: [Signature] Severn Co. Company 12/18/96 10:05 AM

Received By: [Signature] CCRAL 12/18/96 10:05

2. Relinquished By: _____

Received: _____

3. Relinquished By: _____

Received By: _____

4. Relinquished By: _____

Received By: _____

Samples collected by Roger Neutron

Severn Co. side assessor



CCI Analytical Laboratories, Inc.
 3229 Pine
 Everett, WA 98201
 Phone (206) 258-4548
 (206) 292-9059 Seattle
 (206) 259-6289 FAX

Chain of Custody / Laboratory Analysis Request

Date 2/13/97 Page Of

PROJECT TACOMA RESERVE #
 PROJECT MANAGER PAUL MASON PH# 284-4184
 REPORT/INVOICE MAILING ADDRESS SEVERSON CONST.

 SAMPLER'S NAME ROGER NEWTON PH# 284-4184

ANALYSIS REQUESTED										OTHER (Specify)												NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?				
WTPH-G	WTPH-D <input type="checkbox"/> 8015 MODIFIED	WPTH-418.1	BTEX	WTPH-HCID	EPA 8020 <input type="checkbox"/> 602	EPA 8010 <input type="checkbox"/> 601	EPA 8240 <input type="checkbox"/> 624 <input type="checkbox"/> 8260	EPA 8270 <input type="checkbox"/> 625	EPA 8080 <input type="checkbox"/> 608 <input type="checkbox"/> PCB only <input type="checkbox"/> Pest only <input type="checkbox"/>	Metals Priority Pollutant <input type="checkbox"/> RCRA <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP Metals <input checked="" type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>															
		X																									
		X																									
		X																									
		X																									
		X																									

SPECIAL INSTRUCTIONS 48hr on 418.1

POSSIBLE SAMPLE HAZARDS _____

SIGNATURES (Name, Company, Date, and Time):

1. Relinquished By: Paul Mason 2/14/97 1:45
 Received By: Paul Mason CCIAL 2/14/97 1:45

2. Relinquished By: _____
 Received _____

3. Relinquished By: _____
 Received By: _____

4. Relinquished By: _____
 Received By: _____



CCI Analytical Laboratories, Inc.
 3229 Pine
 Everett, WA 98201
 Phone (206) 258-4548
 (206) 292-9059 Seattle
 (206) 259-6289 FAX

Chain of Custody / Laboratory Analysis Request

Date 2/21/97 Page 1 Of 1

PROJECT Tacoma Reserve # _____
 PROJECT MANAGER Paul Mason PH# 294 1229
 REPORT/INVOICE MAILING ADDRESS _____
 SAMPLER'S NAME Kev Shuman PH# 294 1229

ANALYSIS REQUESTED											OTHER (Specify)										NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?						
WTPH-G	WTPH-D <input type="checkbox"/> 8015 MODIFIED	WPTH-418.1	BTEX	WTPH-HCID	EPA 8020 <input type="checkbox"/> 602	EPA 8010 <input type="checkbox"/> 601	EPA 8240 <input type="checkbox"/> 624 <input type="checkbox"/> 8260	EPA 8270 <input type="checkbox"/> 625	EPA 8080 <input type="checkbox"/> 608 <input type="checkbox"/> PCB only <input type="checkbox"/> Pest only <input type="checkbox"/>	Metals Priority Pollutant <input type="checkbox"/> RCRA <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herb <input type="checkbox"/>																
SAMPLE I.D.	DATE	TIME	TYPE	LAB #																								
1. <u>OX-4-1</u>	<u>2-21-97</u>	<u>1:30</u>																										
2. <u>OX-2-1</u>	<u>2-21-97</u>	<u>1:30</u>																										
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

SPECIAL INSTRUCTIONS 48hr

POSSIBLE SAMPLE HAZARDS _____

SIGNATURES (Name, Company, Date, and Time):

1. Relinquished By: Paul Mason 2-21-97 2:30 PM
 Received By: [Signature] 2-21-97 2:31

2. Relinquished By: _____
 Received: _____

3. Relinquished By: _____
 Received By: _____

4. Relinquished By: _____
 Received By: _____

APPENDIX B
MANIFESTS AND WEIGHT TICKETS

MI Master (c)

TPS Technologies, Inc.

Customer Job Report

Gross & Tare Weight Codes: M=Manual, S=Scale, T=Trk File

Job Number Name	SiteAddress	SiteCity	State	ZipCode
A03 -- 01094 NAVAL RESERVE CENTER	1100 EAST ALEXANDER AVENUE EA	TACOMA	WA	98424

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	02/28/97 00:00	1001800	Robert	105,400M	40,320M	65,080	32.54
2	02/28/97 00:00	1001800	Robert	115,000M	40,320M	74,680	37.34
0	03/04/97 13:11	1001800		0	0	0	0.00

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
66.70%	2	93.20%	75.00(tons)	69.88(tons)

SEE INVOICE 001413

[SM-RPT9]

3/ 4/97



Manifest **TPS Technologies Soil Recycling**
Non-Hazardous Soils

Date of Shipment	Responsible for Payment: Contractor	Transporter Truck #:	Facility #: A03	Given by TPS: 01094	001
Generator's Name and Billing Address: NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA		Generator's Phone #: (206) 383-3577		Generator's US EPA ID No.	
		Person to Contact: ENSIGN WALZ			
		FAX#:		Customer Account Number with TPS: 3NAVALR	
Consultant's Name and Billing Address: SEVERSON CONSTRUCTION 4815 - 54th AVENUE SW SEATTLE, WA 98116 USA		Consultant's Phone #: (206) 284-1229			
		Person to Contact: PAUL MASON			
		FAX#: (206) 284-4186		Customer Account Number with TPS: 1001388	
Generation Site (Transport from): (name & address) NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA		Site Phone #: (206) 383-3577		BTEX Levels	
		Person to Contact: BOB THRAWP		TPH Levels	
		FAX#:		AVC Levels	
Designated Facility (Transport to): (name & address) TPS Technologies Inc. 2800 - 104th Street Court South Tacoma, WA 98444-6766 USA		Facility Phone #: (206) 584-8430		Facility Permit Numbers	
		Person to Contact: Renee Avelino			
		FAX#: (206) 584-8309			
Transporter Name and Mailing Address: COKAMAR TRUCKING, INC. P.O. BOX 2707 SILVERDALE, WA 98383 USA		Transporter's Phone #: (360) 697-4622		Transporter's US EPA ID No.:	
		Person to Contact: MARY WEBSTER		Transporter's DOT No.:	
		FAX#: (360) 779-9741		Customer Account Number with TPS: 1001800	

Generator and/or Consultant

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Clay <input type="checkbox"/> Organic <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input checked="" type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>	30T	T:T			
Sand <input type="checkbox"/> Clay <input type="checkbox"/> Organic <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: *If We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.*

Print or Type Name: **X KEVIN STAMMON** Generator Consultant Signature and date: *[Signature]* Month **2** Day **28** Year **97**

Transporter's certification: *If We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. If We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.*

Print or Type Name: **Robert L Johnson** Signature and date: *[Signature]* Month **2** Day **28** Year **97**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: **RENEE AVELINO - CSM** Signature and date:

Please print or type:

Transporter
Recycling Facility



Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment:	Responsible for Payment: Contractor	Transporter Truck #:	Facility #: A03	Given by TPS: 01094	Load #: 002
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Generator's Name and Billing Address: NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA	Generator's Phone #: (206) 383-3577	Generator's US EPA ID No:
	Person to Contact: ENSIGN WALZ	
	FAX#:	Customer Account Number with TPS: 3NAVALR

Consultant's Name and Billing Address: SEVERSON CONSTRUCTION 4815 - 54th AVENUE SW SEATTLE, WA 98116 USA	Consultant's Phone #: (206) 284-1229	
	Person to Contact: PAUL MASON	
	FAX#: (206) 284-4186	Customer Account Number with TPS: 100130B

Generation Site (Transport from): (name & address) NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA	Site Phone #: (206) 383-3577	BTEX Levels:
	Person to Contact: BOB THRAWP	TTH Levels:
	FAX#:	AVG. Levels:

Designated Facility (Transport to): (name & address) TPS Technologies Inc. 2800 - 104th Street Court South Tacoma, WA 98444-6766 USA	Facility Phone #: (206) 584-8430	Facility Permit Numbers:
	Person to Contact: Renee Avelino	
	FAX#: (206) 584-8309	

Transporter Name and Mailing Address: COXAMAR TRUCKING, INC. P.O. BOX 2707 SILVERDALE, WA 98383 USA	Transporter's Phone #: (360) 697-4622	Transporter's US EPA ID No:
	Person to Contact: MARY WEBSTER	Transporter's DOT No.:
	FAX#: (360) 779-9741	Customer Account Number with TPS: 1001800

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input checked="" type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>	30T	T&J			
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exceptions in items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by myself for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: X KEVIN L SHONAN	Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/>	Signature and Date: <i>[Signature]</i>	Month Day Year: 2 28 97
--	---	---	-----------------------------------

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Robert L Johnson	Signature and Date: <i>[Signature]</i>	Month Day Year: 2 28 97
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Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:	
Print or Type Name: RENEE AVELINO - CSM	Signature and Date:

Generator and/or Consultant

Transporter

Recycling Facility

Manifest

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest # ↓

Date of Shipment:	Responsible for Payment: Contractor	Transporter Truck #:	Facility #: A03	Given by TPS: 01094	Land #: 001
Generator's Name and Billing Address: NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA		Generator's Phone #: (206) 383-3577		Generator's US EPA ID No.:	
		Person to Contact: ENSIGN WALZ			
		FAX#:		Customer Account Number with TPS: 3NAVALR	
Consultant's Name and Billing Address: SEVERSON CONSTRUCTION 4815 - 54th AVENUE SW SEATTLE, WA 98116 USA		Consultant's Phone #: (206) 284-1229			
		Person to Contact: PAUL MASON			
		FAX#: (206) 284-4186		Customer Account Number with TPS: 1001308	
Generation Site (Transport from): (name & address) NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA		Site Phone #: (206) 383-3577		ITEX Levels:	
		Person to Contact: BOB THRAWP		TPH Levels:	
		FAX#:		AVG. Levels:	
Designated Facility (Transport to): (name & address) TPS Technologies Inc. 2800 - 104th Street Court South Tacoma, WA 98444-6766 USA		Facility Phone #: (206) 584-8430		Facility Permit Numbers:	
		Person to Contact: Renee Avelino			
		FAX#: (206) 584-8309			
Transporter Name and Mailing Address: COKAMAR TRUCKING, INC. P.O. BOX 2707 SILVERDALE, WA 98383 USA		Transporter's Phone #: (360) 697-4622		Transporter's US EPA ID No.:	
		Person to Contact: MARY WEBSTER		Transporter's DOT No.:	
		FAX#: (360) 779-9741		Customer Account Number with TPS: 1001800	

Generator and/or Consultant

Description of Soil	Molsture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% + over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			105400	40200	65200
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% + over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			32.54		

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month Day Year
X			

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month Day Year
Robert L Johnson		2 28 97

Recycling Facility:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
RENEE AVELINO - CSM	

Please print or type.

Manifest		TPS Technologies Soil Recycling		Non-Hazardous Soils		Manifest # ↓	
Date of Shipment:	Responsible for Payment: Contractor	Transporter Truck #:	Facility #: A03	Given by TPS: 01094	Load #: 1002		
Generator's Name and Billing Address: NAVAL RESERVE CENTER 1100 EAST ALEXANDER AVENUE EAST TACOMA, WA 98424 USA			Generator's Phone #: (206) 383-3577 Person to Contact: ENSIGN WALZ FAX#:		Generator's US EPA ID No.:		
Consultant's Name and Billing Address: SEVERSON CONSTRUCTION 4815 - 54th AVENUE SW SEATTLE, WA 98146 USA			Consultant's Phone #: (206) 284-1229 Person to Contact: PAUL HASON FAX#:		Customer Account Number with TPS: 3NAVALR		

ref 6257-515 908

APPENDIX C

SITE PHOTOS



Photo 1 - Photo of the over-excavation of AST storage area (view to northeast)



Photo 2 - Photo of the over-excavation of AST storage area (view to northwest)

SITE PHOTOS - AST REMOVALS & SITE SOIL REMEDIATION
NAVMARCORESCEN

Source: SEVERSON CONSTRUCTION, February 1997



Photo 3 - Photo of the over-excavation of AST storage area (view to west)



Photo 4 - Photo of the over-excavation of AST storage area (note u/g piping)

SITE PHOTOS - AST REMOVALS & SITE SOIL REMEDIATION
NAVMARCORESCEN

Source: SEVERSON CONSTRUCTION, February 1997