FINAL LIMITED SOIL REMOVAL REPORT AT THE FORMER PCP/DIESEL MIXING AREA

at

2737 West Commodore Way Seattle, Washington

Prepared for •
Time Oil Company

December 18, 2002

Prepared by

FOSTER WHEELER
FOSTER WHEELER ENVIRONMENTAL CORPORATION

12100 NE 195th, Suite 200 Bothell, WA 98011



EXECUTIVE SUMMARY

The Time Oil Company is in the process of decommissioning the petroleum terminal located at 2737 West Commodore Way, Seattle, Washington. The use of the site as a petroleum terminal was discontinued in October 2001. During a series of field investigations conducted in 2000 and 2001, pentachlorophenol-impacted soil was observed in a limited area located within the Lower Tank Yard. The limited area showed surface soil concentrations and two sub-surface detections of PCP above the MTCA Method B Cleanup Level for unrestricted land use. The Washington State Department of Ecology was notified and Time Oil entered the Voluntary Cleanup Program to address the limited PCP-impacted soil. A focused Work Plan was submitted for review by Ecology, and no objections were found with the proposed activities (Ecology correspondence dated August 22, 2002).

On September 11 and 12, 2002, an area measuring approximately 28 feet by 65 feet was excavated to a depth of approximately 6 to 18 inches. Two additional locations were excavated to a depth of 5 feet to address sub-surface exceedances. On September 18, 2002, approximately 70 cubic yards of soil were transported to Sensor Environmental, Ltd's, incineration facility in Swan Hills, Alberta. Confirmation samples were collected from the excavated area and the analytical results showed that the PCP-impacted soil had been removed. The excavation area was backfilled with clean imported material.

The limited soil removal activities were conducted in accordance with the applicable portions of Ecology's MTCA regulation (Chapter 173-340) and the VCP guidelines. The Site Summary form (ECY 020-73) is included in this executive summary to document the activities conducted and the findings. Based on the successful execution of the Ecology approved plan, and the results of the confirmation samples that do not show concentrations of PCP above the MTCA Method B Clean up Level, the Time Oil Company requests a finding of "No Further Action" for PCP-impacted soils at the site.

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1. INTRODUCTION

During site investigation activities conducted in November 2000 and July 2001, pentachlorophenol (PCP)-impacted soil was found on the surface and in two subsurface locations at the Time Oil Company (TOC) bulk storage facility at 2737 West Commodore Way (Figure 1-1). Several of the soil samples showed concentrations above the Model Toxics Control Act (MTCA) Method B Formula Value (8.33 mg/kg). Consequently, a decision was made to remove the PCP-impacted soil from the area.

The Washington State Department of Ecology (Ecology) was informed of the previous investigation results (Time Oil Company correspondence dated November 29, 2001), and a focused Work Plan for limited soil removal (Foster Wheeler Environmental, 2002) was submitted through Ecology's Voluntary Cleanup Program (VCP). The Work Plan was reviewed and Ecology found no objections with the planned activities. The purpose of this report is to provide documentation for the successful execution of the Work Plan and removal of PCP-impacted soil in the Former PCP/Diesel Mixing Area.

1.1 PURPOSE AND ORGANIZATION

The purpose of the field activities conducted in September 2002 was to remove PCP-impacted soil with concentrations above the MTCA Method B Cleanup Level for unrestricted land use. The excavated soil was transported off site to an approved facility for recycling. This report provides documentation of the soil removal activities conducted and the results of the field analyses in accordance with the VCP protocols (ECY 020-73). The report does not address potential impacts from fuels or fuel-related compounds to soil and groundwater. Likewise, the report is not intended to address potential PCP impacts to groundwater. Potential impacts to groundwater and soil caused by fuel are being addressed separately. Potential impacts to groundwater from PCP are being evaluated through quarterly groundwater sampling.

This Limited Soil Removal Report is organized into six sections as follows:

- Section 1 Introduction: Describes the purpose of the PCP-Impacted Limited Soil Removal Activity.
- Section 2 Property Description, Operation, and History: Provides a description of the site and history
- Section 3 Site History Characterization: Identifies the PCP-impacted site and summarizes previous investigations.

- Section 4 Cleanup Levels: Describes the cleanup standards and regulations applicable to the area (primarily MTCA B Formula Values).
- Section 5 Removal Action: Describes the methods used in soil removal activity.
- Section 6 Conclusion

Appendix A Provides a copy of the accepted Work Plan

Appendix B Provides correspondence with Ecology

Appendix C Shows site photographs taken during the removal activity

Appendix D Provides the analytical reports for the contractor samples

Appendix E Provides the soil recycling documentation

1.2 LEGAL DESCRIPTION

Site Address:

Time Oil Company, Inc.

2737 West Commodore Way

Seattle, Washington 98199

Property Owner:

Time Oil Company, Inc.

2737 West Commodore Way

Seattle, Washington 98199

Legal Description:

Section 11, township 25 north, range 3 east, Lawton Park, portions of

Blocks 3, 4, and 5

2. PROPERTY DESCRIPTION, OPERATION, AND HISTORY

The following sections provide a physical description of the site, current site operations, and historical operations.

2.1 SITE DESCRIPTION

The property runs from West Commodore Way south to the Burlington Northern rail line (Figure 2-1). Most of the property has been paved, except the area of the former rail lines behind the warehouse and tank yard located on the east side of the property. A two-story office building is located in the center of the property near West Commodore Way. A three-section warehouse is located behind this office building, and a former boiler room is connected to the east side of the warehouse via a covered loading dock. An existing open-air barreling shed is located northwest of the warehouse. The tank yard is divided into two sections; the Lower Tank Yard Area and the Upper Tank Yard Area, each constructed at a different time. The Lower Tank Yard Area contains six aboveground storage tanks (ASTs), and the Upper Tank Yard Area contains eight ASTs that are larger in volume than those in the Lower Tank Yard Area. The south side of the Upper Tank Yard Area banks steeply upward to the fence line and former rail line spur. The surface of the tank yards is primarily unpaved gravel with patches of grass. A few concrete walkways are located in the yards including the area surrounding the Former PCP/Diesel Mixing Area located in the Lower Tank Yard. Immediately to the west of the tank yards are a pump shed and foamite shed (used for fire suppression).

There are no known drinking water wells on the property, but several monitoring wells from site investigations are installed within the shallow water-bearing zone beneath the property.

2.2 PROPERTY OPERATION

The petroleum terminal discontinued operation in October 2001. The site will not be used as a petroleum terminal again. Currently it is the site for TOCs administrative offices and for storage of equipment and supplies (i.e., fascia, signs) for service stations. Most of the stored material is kept in the warehouse near the New Barreling Shed.

2.3 PROPERTY HISTORY

The Property was acquired by TOC around 1941. Historical photographs (presented in Volume 1, Appendix B of the Final Environmental Site Assessment: Phase I [Foster Wheeler

Environmental, 2000]) demonstrate a number of changes that have taken place at the Property since 1936. Prior to 1936, the Property appears to have been used for agricultural purposes.

The 1946 photograph shows the original office building, the Lower and Upper Tank Yard Areas, the pump shed and foamite building, a former barreling shed located immediately west of the office building, and overhead fuel loading racks. 55-gallon drums were filled with petroleum products in the former barreling shed, rolled under West Commodore Way via a barrel incline and tunnel to the TOC dock in the ship canal, and then loaded onto ships. This operation was conducted primarily to support World War II efforts.

The historical photograph from 1960 (Volume 1, Appendix B, Foster Wheeler Environmental, 2001) depicts the Property mainly as it is today. A warehouse building, built in the late 1940s according to the Puget Sound Regional Archives, is located south of the office building, parallel with the rail spurs (several of the rail spurs were deactivated by the time of this photograph). A new barreling shed, built in 1952 according to the Puget Sound Regional Archive files, is located just northwest of the warehouse, and the boiler house was added in 1950 (Puget Sound Regional Archive files). The barreling shed seen in the 1946 photograph is no longer on the Property in the 1960 photograph.

According to TOC employees, PCP crystals were mixed with warm diesel fuel in a small AST near the west wall of the Lower Tank Yard Area. The mixture of PCP and diesel was transferred via underground lines to the new barreling shed where 55-gallon drums and 5-gallon drums were filled, rolled onto a loading dock between the warehouse and the barreling shed, and finally rolled onto rail cars. During the mixing process, some of the PCP crystals were spilled on the ground surface in the Former PCP/Diesel Mixing Area. This PCP/diesel mixing operation reportedly occurred for 3 to 4 months during 1967 as part of a military contract. The 1997 photograph shows the Property as it exists today (Volume 1, Appendix B, Foster Wheeler Environmental, 2000).

3. PREVIOUS INVESTIGATIONS

Previous investigations have been conducted near the Former PCP/Diesel Mixing Area and are documented in the following reports:

- Final Environmental Site Assessment: Phase I, Foster Wheeler Environmental, August 2000.
- Final Environmental Site Assessment: Phase II, Foster Wheeler Environmental, April 2001a.
- Final Environmental Site Assessment: Phase III, Foster Wheeler Environmental, December 2001b.

A summary of these reports and their findings are discussed in the following sections.

3.1 FINAL ENVIRONMENTAL SITE ASSESSMENT: PHASE I

A Phase I Environmental Site Assessment was conducted at 2737 West Commodore Way in the summer of 2000 (Foster Wheeler Environmental, 2000). The Phase I Investigation was conducted in accordance with the applicable American Society for Testing Methods (ASTM) standard at the time (ASTM E 1527-97). Based on a review of available documents, interviews, and site reconnaissance, further field investigations were recommended in the Former PCP/Diesel Mixing Area, Former Barrel Shed, and New Barrel Shed to assess the potential impacts of PCP use. Figure 3-1 shows the locations of the three areas at the site.

3.2 FINAL ENVIRONMENTAL SITE ASSESSMENT: PHASE II

In November 2000, Foster Wheeler conducted the initial field investigation in the Former PCP/Diesel Mixing Area to evaluate the potential for PCP-impacted soil and groundwater. Five soil borings (SB-01 through SB-05) were drilled around the former AST location. The borings were drilled manually using a hand auger. The depths of the borings ranged from 3 feet below ground surface (bgs) to 14 feet bgs. Four surface (0 to 0.6 inches) soil samples (SS-01 through SS-04) were also collected around the area where PCP was mixed with diesel. The sample locations are shown on Figure 3-1.

Six soil borings (SB-26 through SB-31) were installed near the Former Barrel Shed using a hollow-stem auger (HSA) drill rig operated by Cascade drilling. The borings ranged in depth from 20 to 25 feet. Three soil borings were drilled near the New Barrel Shed. Two of the

borings were abandoned at a shallow depth (< 1 foot) due to refusal caused by concrete. Only one boring (SB-06) was completed; south of the New Barrel Shed and between the former rail spurs.

Soil samples were collected and analyzed for petroleum products and PCP using EPA Method 8270-selective ion monitoring (sim). The analyses were conducted by North Creek Analytical Laboratories, Inc., in Bothell, Washington.

The analytical results from the soil borings (Table 3-1) in the Former PCP/Diesel Mixing Area showed PCP concentrations exceeding the MTCA Method B Cleanup Level in surface soil samples (0 to 0.6 inches) at SB-03 (202 mg/kg) and SB-04 (803 mg/kg). PCP was also detected above the MTCA Method B Level at a depth of 5 feet bgs in SB-04 (20.9 mg/kg). Trace amounts of PCP were detected throughout most of the borings. The trace levels (< 0.2 mg/kg) are believed to be a result of smearing of the surface material caused by the sampling method (hand auger) and not representative of actual subsurface conditions. The surface soil samples collected from the Former PCP/Diesel Mixing Area were below the reporting limit with the exception of SS-01 (3.87 mg/kg); though still below the MTCA Method B Level.

3.3 FINAL ENVIRONMENTAL SITE ASSESSMENT: PHASE III

In July 2001, five additional soil borings were drilled and one near surface sample was collected in the Former PCP/Diesel Mixing Area (Figure 3-2). Some of the soil boring locations were new (SB-56 and SB-55), while the other three locations (SB-52, SB-53, and SB-54) were located near previous boring locations. The borings were completed with a 1-inch inner diameter Acker Soil Mechanic, operated by BoreTec, Inc. Some of the bores were located near previous borings in order to collect representative sub-surface, since the subsurface hand-auger samples collected in March 2001 were suspect. One of the borings (SB-56) was completed as a temporary well (01MW-14). A boring (SB-58) was installed hydraulically down-gradient and in front of the New Barrel Shed Area and completed as a well (01MW-15). A soil boring (SB-59) was also drilled in the Former Barrel Shed Area, adjacent to well 01MW-06, to collect soil samples for the analysis of PCP. The soil samples from the boring for well 01MW-06 were not analyzed for PCP during the Phase II activities. One round of groundwater sampling showed low concentrations (below the action level) of PCP in well 01MW-06. Therefore, in order to fill a data gap, a boring was co-located to the well to assess the potential presence of PCP in soil. Borings SB-58 and SB-59 were drilled by Cascade Drilling using a CME 75 High Torque hollow stem auger drill rig.

The analytical results showed concentrations of PCP in the Former PCP/Diesel Mixing Area above the MTCA Method B Level (8.33 mg/kg) in SB-56 (8.88 mg/kg) at a depth of 5 feet below ground surface. None of the other samples from the Former PCP Diesel/Mixing Area, Former Barrel Shed Area (SB-59), or New Barrel Shed Area (SB-58) showed concentrations of PCP above the MTCA level.

3.4 SUMMARY OF PREVIOUS INVESTIGATIONS

Based on the analytical results of samples collected during the previous investigations, the extent of PCP-impacted soil is limited to the surface soil surrounding the AST in the Former PCP/Diesel Mixing Area. Only two subsurface samples within the area showed concentrations above the MTCA Method B Cleanup Level for soil.

The samples in the New Barrel Shed Area and Former Barrel Shed Area did not show concentrations of PCP in soil above the MTCA Method B Cleanup Level or applicable screening level.

4. CLEANUP LEVELS

4.1 SOIL CLEANUP LEVELS

The primary contaminant of concern for the removal activity conducted was PCP. The removal action was limited in spatial extent to the area of previous use (Former PCP/Diesel Mixing Area) where the material had been used historically and was limited to soil. The primary goal of the removal action was guided by MTCA (WAC 173-340). MTCA contains cleanup standards and regulations to protect human health and the environment from past releases of hazardous substances. Potential exposure of humans to PCP-impacted soil, and the potential leaching by PCP-impacted soil into the groundwater, were appropriate exposure scenarios in the Former PCP/Diesel Mixing Area. MTCA (WAC 173-340-900) lists cleanup levels for various contaminants in soil and groundwater. The cleanup levels for soil are divided into restricted land use and unrestricted land use categories. These tables are commonly referred to as MTCA Method B Formula Values. There are no MTCA Method A Cleanup Levels for PCP. Therefore, MTCA provides Method B Formula Values, which are risk-based values. These values are found in Ecology's Cleanup Levels and Risk Calculations Under the MTCA Cleanup Levels and Risk Calculation (CLARC), Version 3.1 (Ecology, 2001). The MTCA Method B Formula Value for carcinogenic PCP based on direct contact pathway is 8.33 mg/kg. This is the most conservative value for unrestricted land use and is applicable for the Former PCP/ Diesel Mixing Area based on the exposure scenarios that were present prior to the removal action.

5. REMOVAL ACTION

The limited soil removal activity for the Former PCP/Diesel Mixing Area was conducted from September 11 through September 17, 2002. Prior to the commencement of the removal activity, a Work Plan was prepared and submitted to Ecology for review under the VCP. Based on the Work Plan and other supplemental information, Ecology had "no objections to proceeding with the proposed remediation of PCP-impacted soil" (correspondence with Ecology, August 22, 2002). The following sections describe in greater detail removal activities taken to remediate PCP-impacted soil in the Former PCP/Diesel Mixing Area.

5.1 SITE PREPARATION

Prior to removing the PCP-impacted soil, any ancillary piping, including the manifold system, and surface structures were removed for ease of access. The AST, which had been cleaned previously, was removed from the site and transported to Schnitzer Steel for recycling. Other surface piping, including the above ground manifold system were cleaned during the terminal decommissioning in October 2001. The piping was disconnected at the flanges or cut and lifted out of the Lower Tank Yard by a boom truck and into a drop box provided by Schnitzer Steel. The piping and AST were transported to Schnitzer Steel for recycling.

A portion of the northern wall in the Lower Tank Yard was removed to allow equipment to enter the area. An asphalt ramp was made leading into the Lower Tank Yard from the driveway outside the area. The extent of the area to be excavated was marked based on the historical analytical results and the accepted Work Plan (Foster Wheeler Environmental, 2002).

5.2 SOIL REMOVAL

The soil was removed from the area using a trackhoe in two stages. The soil from the south end of the area was excavated first and mounded near the north end of the area. The depth of the excavation was approximately 6 inches to 18 inches. Confirmation samples (PEC-ES-01 and PEC-SS-01 through PEC-SS-03) were then collected. The northern extent of the area was excavated when the soil was loaded into trucks for transportation and recycling. The remaining confirmation samples (PEC-ES-02 and PEC-SS-04 through PEC-SS-07) were then collected. Two subsurface locations (SB-04 and SB-56) were excavated using the bucket of the trackhoe. The subsurface excavation near SB-56 was approximately 5 feet wide and 5 feet deep. SB-56 was the location of monitoring well 01MW-14, which was removed during the excavation activity. The entire well and all annular material were removed. The subsurface excavation

near SB-04 was increased due to a subsurface concrete pad in the vicinity that forced the excavation limits to expand. The final subsurface excavation near SB-04 was approximately 5 feet wide, 10 feet long, and 7 feet deep.

All excavated soil was stockpiled in a lined area adjacent to the excavation. The stockpiled soil was bermed and covered to control runoff and water accumulation prior to final disposition.

Approximately 70 cubic yards of soil was excavated from the area.

5.3 CONFIRMATION SAMPLING

Confirmation samples were collected after the soil had been removed from the area. The samples were collected using a clean stainless steel spoon and placing the soil directly into the appropriate sample jar provided by the analytical laboratory. The samples were analyzed for PCP using EPA Method 8270-sim by North Creek Analytical, Inc., in Bothell, Washington. The samples were hand carried to the laboratory in a chilled cooler the day they were collected. The locations of the confirmation samples are shown on Figure 5-1.

5.4 SITE RESTORATION

The analytical results from the confirmation samples (Table 5-1) showed that the PCP-impacted soil had been successfully removed from the Former PCP/Diesel Mixing Area. Clean imported fill was brought into the area and used to bring the surface to grade.

5.5 SOIL TREATMENT

The excavated soil was transported from the site on September 17, 2002. Because the soil removed was generated during the manufacturing of a wood treating solution containing PCP, the soil was designated as an USEPA category F027 waste. There are no treatment facilities in the United States to treat category F027 waste; therefore, the soil was transported to an incineration facility in Canada for proper treatment. TOC contracted with Sensor Environmental Services, Ltd., to transport and treat the soil at their incineration facility in Swan Hills, Alberta. The EPA and Environment Canada (Canada's EPA equivalent) were notified prior to the transportation of the material.

6. CONCLUSIONS AND RECOMMENDATIONS

On behalf of the Time Oil Company, Foster Wheeler prepared a Work Plan to address the rationale and procedures for removing PCP-impacted soil from the Former PCP/Diesel Mixing Area at 2737 West Commodore Way. The historical data showed that PCP-impacted soil was present in the surface and at two other locations at a depth of approximately 5 feet below ground surface. In July 2002, TOC/Foster Wheeler entered Ecology's VCP for the limited soil removal of PCP-impacted soil. A Work Plan was prepared, reviewed by Ecology in August 2002, and the removal activity was approved.

Approximately 70 cubic yards of PCP-impacted soil was removed from the area on September 11 and 12, 2002. Confirmation samples were collected and the analytical results showed that the PCP-impacted soil had been removed. The excavated soil was removed for proper treatment at Sensor Environmental Services, Ltd's incineration facility in Swan Hills, Alberta. The excavated area was then backfilled with clean import material.

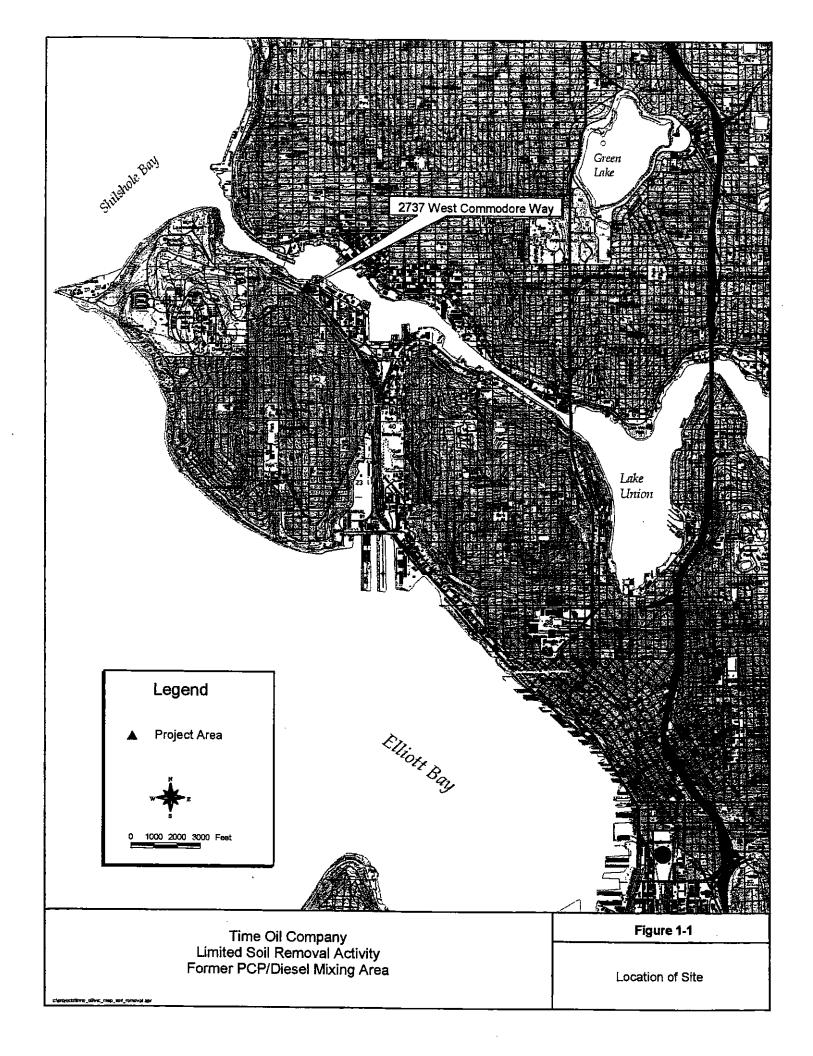
Based on the successful execution of the Work Plan, analytical results indicating no soil exceedances for PCP, and completion of the VCP requirement, we respectfully request a finding of "no further action" in regard to PCP-impacted soil in the Former PCP/Diesel Mixing Area.

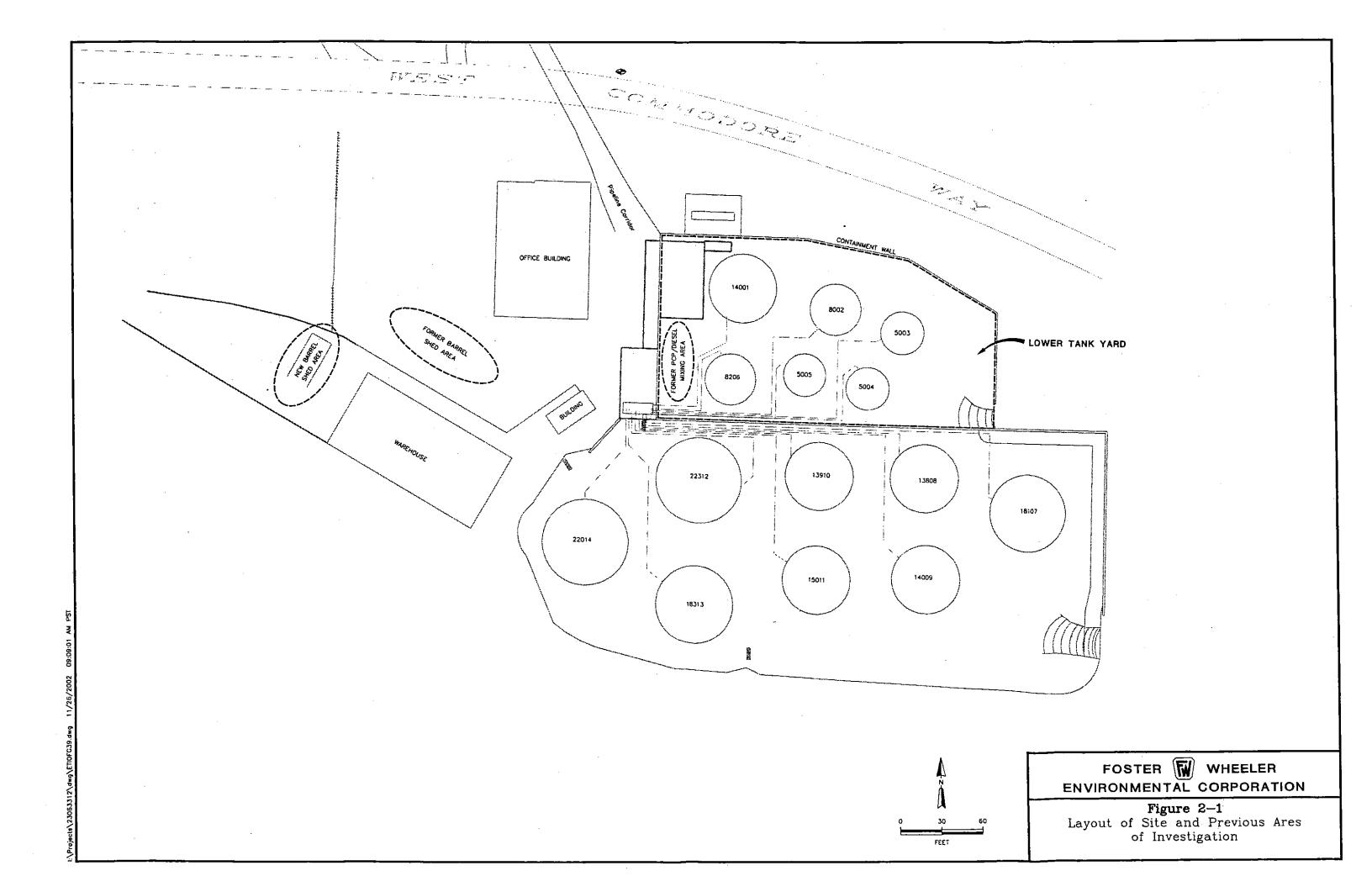
7. REFERENCES

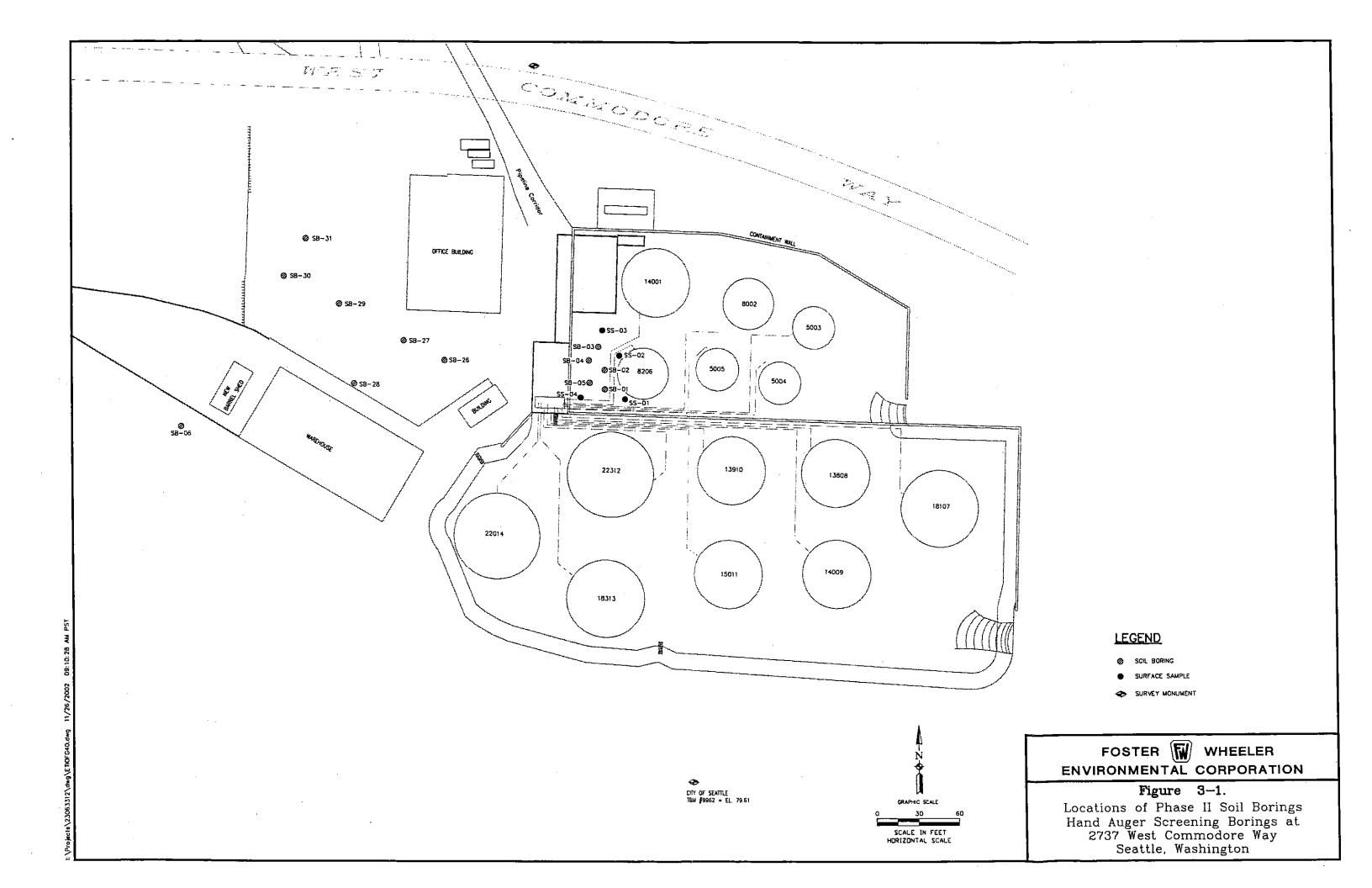
- Ecology (Washington State Department of Ecology). 2002. Technical Correspondence from Jerome B. Cruz of Ecology to Bryan S. Graham of Foster Wheeler Environmental. August 22, 2002.
- Ecology. 2001. Cleanup Levels and Risk Calculations under the Model Toxics Control Act Cleanup Regulation CLARC, Version 3.1, November 2001.
- Foster Wheeler Environmental (Foster Wheeler Environmental Corporation). 2002. Limited Soil Removal Activity Work Play for Former PCP/Diesel Mixing Area, 2737 West Commodore Way, Seattle, Washington. July 3, 2002.
- Foster Wheeler Environmental. 2001a. Environmental Site Assessment: Phase II at 2737 West Commodore Way, Seattle, Washington. Prepared for Time Oil Company by Foster Wheeler Environmental Corporation, Bothell, Washington. April 2001.
- Foster Wheeler Environmental. 2001b. Phase III Environmental Site Assessment at 2737 and 2750 West Commodore Way properties, Seattle, Washington. Prepared for Time Oil Company by Foster Wheeler Environmental Corporation, Bothell, Washington. October 16, 2001.
- Foster Wheeler Environmental. 2000. Environmental Site Assessment: Phase I for Time Oil Company, 2737 West Commodore Way, Seattle, Washington. Prepared for Time Oil Company by Foster Wheeler Environmental Corporation, Bothell, Washington. August 25, 2000.
- Time Oil Company. 2001. Technical Correspondence from Scott Sloan of Time Oil Company to Uwanta Hickey of Washington State Department of Ecology. November 29, 2001.

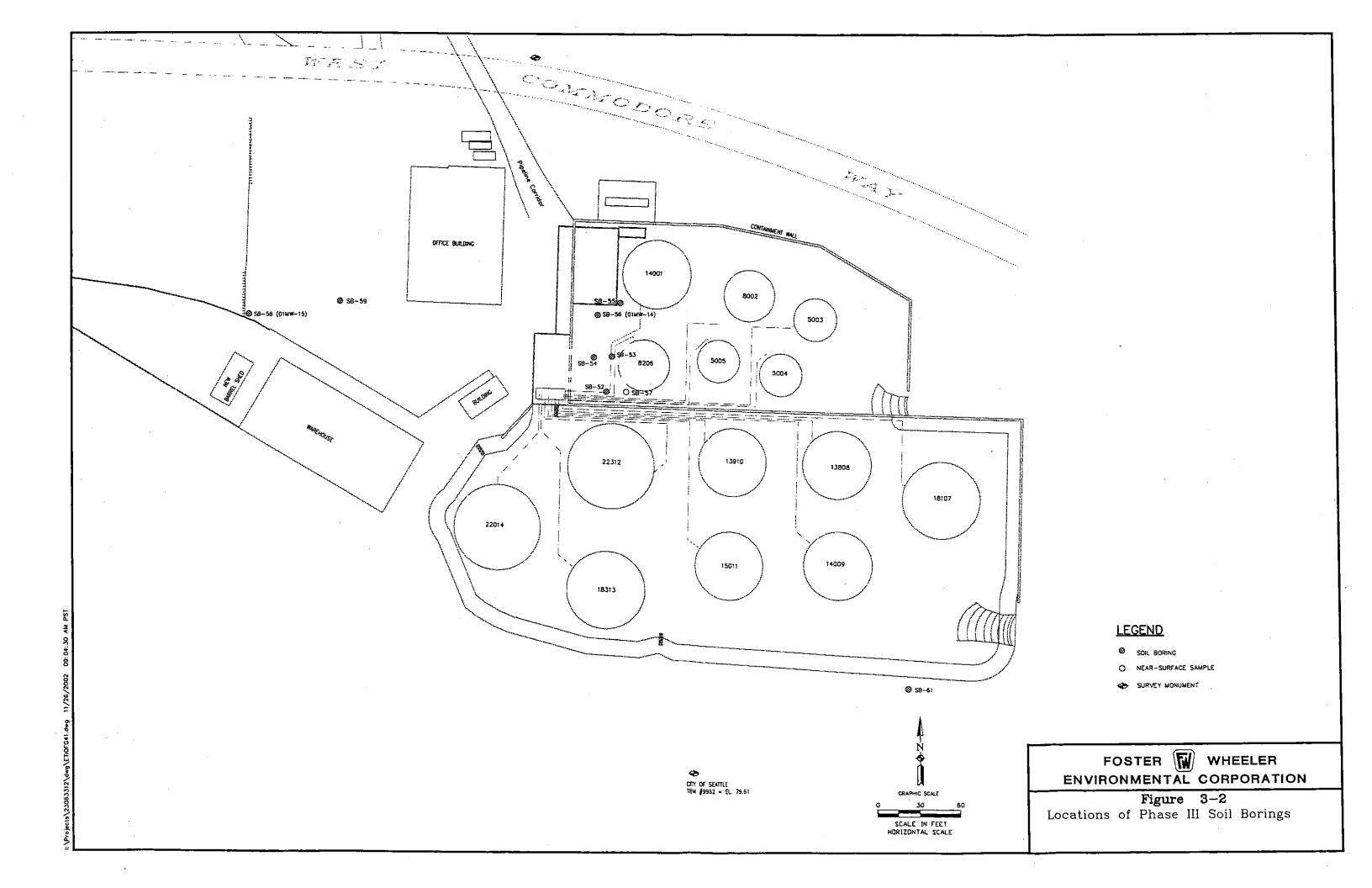
December 18, 2002

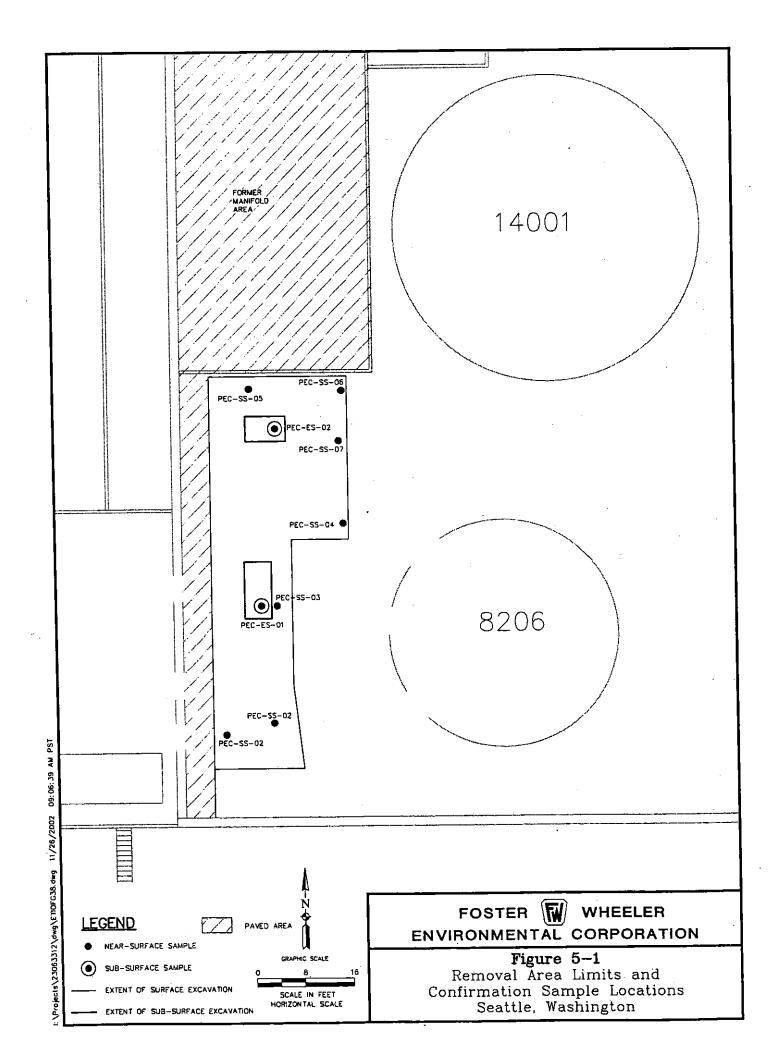
FIGURES











December 18, 2002

TABLES

Table 3-1. Analytical Results for PCP in Soil

Sample	PCP (mg/Kg)	
MTCA ¹	8.33	
Former PCP/Diesel	Mixing Area	
SS-01	3.870	
SS-02	< 1.25	
SS-03	< 2.50	
SS-04	< 0.500	
SB-01-0.6	0.930	
SB-01-2	<0.250	
SB-01-5	0.0871	
SB-01-10	0.0812	
SB-01-14	0.0578	1
SB-02-0.6	1.15	
SB-02-2	<0.250	
SB-02-5	0.0615	
SB-02-10	0.0613	
SB-02-14	0.0585	
SB-03-0.6	202	
SB03B (2 ft)	<0.500	_
SB-04-0.6	803 /	17
SB-04-2	1.26	
SB-04-5	20.9	_[\
SB-04-10	0.2330 🗸	(إـ
SB-05-0.6	2.18	_
SB-05-2	0.0761	_
SB-05-5	0.264	4
SB-05-10	0.0981	_
SB-53-2	0.0916	_
SB-53-5	<0.0500	\Box
SB-53-10	<0.0500	

Sample	PCP (mg/Kg)
MTCA ^{1/}	8.33
Former PCP/Diesel M	ixing Area
SB-54-2	0.181
SB-54-5	<0.0500
SB-54-10	0.0780
SB-55-2.5	<0.0500
SB-55-6	0.174
SB-55-10	0.0770
SB-56-2.5	<0.500
SB-56-5	8.88 ✓
SB-56-10	0.0765
SB-57-1.5	<0.0500
New Barrel Shed	
SB-06-5	< 0.250
SB-06-10	0.0548
SB-06-15	0.0548
SB-07-5	< 0.250
SB-07-10	< 0.250
SB-07-15	0.0572
SB-08-5	0.0560
SB-58-2	<0.500
SB-58-5	<0.0500
SB-58-10	<0.0500
SB-58-15	0.159
SB-58-25	<0.0500
Former Barrel Shed	
SB-59-5	<0.500
SB-59-15	<0.0500

^{1/}Results above MTCA Method B carcinogenic cleanup level in bold and italics.

Table 5-1. Analytical Results for Confirmation Samples

Sample	PCP (mg/Kg)
MTCA ¹	8.33
PEC-ES-01	1.05
PEC-SS-01	< 0.250
PEC-SS-02	< 0.0500
PEC-SS-03	0.0754
PEC-ES-02	1.01
PEC-SS-04	< 0.0500
PEC-SS-05	< 0.0500
PEC-SS-06	< 0.0500
PEC-SS-07	< 0.0500

^{1/}Results above MTCA Method B carcinogenic cleanup level in bold and italics



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

August 22, 2002

Mr. Bryan Graham
Foster Wheeler Environmental
12100 NE 195th Street, Suite 200
Bothell, WA. 98011

Dear Mr. Graham,

Re: Request for Review: Voluntary Cleanup Program # NW0931
Time Oil Terminal Property 01-600, 2737 West Commodore Way, Seattle, WA.

Thank you for submitting your reports for Ecology's review. Ecology appreciates your initiative in pursuing a voluntary cleanup under the Model Toxics Control Act (MTCA).

The Washington State Department of Ecology's Toxics Cleanup Program has reviewed the following information regarding the Time Oil Terminal Property 01-600 located at 2737 West Commodore Way, Seattle, WA:

- Report titled "Final Limited Soil Removal Activity Work Plan For Former PCP/Diesel Mixing Area at 2737 West Commodore Way Seattle, Washington, prepared by Foster Wheeler Environmental Corporation, Bothell, WA, dated July 3, 2002.
- 2. Facsimile transmittal of amended Figure 3-2 showing "Anticipated Excavation Areas" prepared by Foster Wheeler Environmental Corporation, Bothell, WA, dated August 7, 2002.
- 3. Report titled "Final Environmental Assessment: Phase II PCP/Diesel Mixing Areas at 2737 West Commodore Way Seattle, Washington, prepared by Foster Wheeler Environmental Corporation, Bothell, WA, dated June 4, 2001.

Based upon the information listed above, Ecology has no objections to proceeding with the proposed remediation of PCP-impacted soil at this portion of the property (Former PCP/Diesel Mixing Area). It is understood by Ecology that further remediation will be performed at the site to address petroleum-impacted media. Ecology believes that, in order to address other contaminant issues not related to the cleanup of PCP-impacted soil at the Former PCP/Diesel Mixing Area, an environmental assessment plan and a remediation

APPENDIX B ECOLOGY CORRESPONDENCE



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

July 25, 2002

Mr. Bryan Graham Foster Wheeler Environmental 12100 NE 195th Street, Suite 200 Bothell WA 98011

Dear Mr. Bryan Graham:

Re: Request for Review: Independent Remedial Action

Time Oil Terminal, 2737 West Commodore Way, Seattle WA 98199

Thank you for submitting the independent remedial action report(s) for this site for Ecology's review. Ecology appreciates your initiative in pursuing a voluntary cleanup under the Model Toxics Control Act.

This is to acknowledge receipt of your Request and your \$500 deposit. A copy of the Request form is enclosed. All correspondence relating to this project should include the site name and a reference to the TCP identification number NW0931.

The Department of Ecology (Ecology) will publish a notice in the *Site Register* that we have received the report(s) and of your request for Ecology review of the independent remedial action. The Site Register is a bi-weekly publication regarding sites undergoing cleanup or remedial action throughout the state.

If you have any questions about this letter or the Voluntary Cleanup Program, please do not hesitate to call me at (425) 649-4446.

Sincerely,

Theresa L. Fisher

Theresantiche

Voluntary Cleanup Program Administrator

TLF: lg Enclosure



Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Request For Assistance/ Rev	riew Form	<u></u>	
Have you discussed this site with ar If yes, what is that person's Name?_And the approximate date?June is this a leaking underground storage.	Mr. Joe Hickey, Mr. S e 2002	Steve Bremer	
Please submit the following with this sign	<u>aned</u> form to the appropria	ate Ecology off	ice (see back of form)
Site Summary (ECY 020-73) A Check or Money Order for \$500 m	nade out to "Department of E		her existing reports on this site
Applicant completes this section: (No	ote: The applicant is responsible	e for all billings)	,
Applicant Name: Foster Wheeler Enviro	onmental (attn: Bryan Graha	nm) Phon	e: (425) 482-7865
Applicant Address: 12100 NE 195th St	reet, Suite 200	· · · · · · · · · · · · · · · · · · ·	
City: Bothell	State: WA	Zip: 98011	
Site Name: Time Oil Terminal		Alternate Nar	me: PCP/Diesel Mixing Area
Site Address: 2737 West Commodore	Way		· · · · · · · · · · · · · · · · · · ·
City: Seattle	State: WA	Zip: 98199_	County: King
Site Owner Name: Time Oil Company		···	
Site Owner Address: 2737 West Comr	nodore Way, PO Box 24447	Phone: (206)	286-6457
City: Seattle	State: WA	Zip: 98199	
I, <u>Bryan Graham</u> , request the assistance of the staff review and/or assistance on the specific staff and charge-out rates of for and I agree to pay the remainder	this payment is the equive cleanup of my contament that staff; if total charge	valent of appr ninated site; a ges are greate	coximately eight (8) hours of actual charges will depend or er than \$500, I will be billed
	2 6/1		7/6/02
7	Signature of Applic	cant	Date
	Note: The applicant is response	onsible for all billing	.
		Neigere See Veige	
Date: 1500 St.		_sielid (etala	
Page 19		Sigi (alite)	
and Gillerokrami (1996) propiety 2007 jed Propinski propiety 2007 propiety 2007 je	[####################################	iliye (omin) Tagana	
	。 第一元法的证明的3877.54		
	THE STRONG	EUSIII IEUST	30 Nortust-20

APPENDIX D ANALYTICAL REPORTS



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9296
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

16 September 2002

Bryan Graham Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell, WA/USA 98011

RE: PCP

Enclosed are the results of analyses for samples received by the laboratory on 09/12/02 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emanuel Hignutt For Amar Gill Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425,420,9200 fax 425,420,9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99205-4776 509,924,9200 fax 509,924,9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503,906,9210 fax 503,906,9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541,383,9310 fax 541,382,7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Bothell WA/USA, 98011

Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/16/02 09:54

- ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
PEC-ES-01		B2I0232-01	Soil	09/12/02 10:45	09/12/02 14:15
PEC-SS-01	•	B2I0232-02	Soil	09/12/02 11:10	09/12/02 14:15
PEC-SS-02		B2I0232-03	Soil	09/12/02 11:20	09/12/02 14:15
PEC-SS-03	•	B2I0232-04	Soil	09/12/02 11:30	09/12/02 14:15

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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20332 Empire Avenue, Suite F-1, Bend; OR 97701-5711

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Bothell WA/USA, 98011

Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/16/02 09:54

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PEC-ES-01 (B2I0232-01) Soil	Sampled: 09/12/02	10:45 Recei	ved: 09/12/02	2 14:15				<u> </u>	
Pentachlorophenol	1.05	0.0500	mg/kg dry	<u> 1 · </u>	2112025	09/12/02	09/13/02	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	87.3 %	20-173			#	·n	# .	Ħ	
PEC-SS-01 (B210232-02) Soil	Sampled: 09/12/02 1	1:10 Recen	ved: <u>09/12/0</u> 2	14:15		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
Pentachlorophenol	ND	0.250	mg/kg dry	5	2112025	09/12/02	09/13/02	EPA 8270 Mod	Q-32
Surrogate: 2,4,6-TBP	168 %	20-173			•	Ħ	*	π	Q-32
PEC-SS-02 (B2I0232-03) Soil	Sampled: 09/12/02 1	1:20 Receiv	ved: 09/12/02	14:15		. <u></u>		·	
Pentachlorophenol	ND	0.0500	mg/kg dry	1	2112025	09/12/02	09/13/02	EPA 8270 Mod	Q-32
Surrogate: 2,4,6-TBP	107 %	20-173			, ,			Ħ	Q-32
PEC-SS-03 (B210232-04) Soil	Sampled: 09/12/02 1	1:30 Recen	ved: 09/12/02	14:15					
Pentachlorophenol	0.0754	0.0500	mg/kg dry	1	2112025	09/12/02	09/13/02	EPA 8270 Mod	<u> </u>
Surrogate: 2,4,6-TBP	93.3 %	20-173			"	rf	<i>n</i> ·	7	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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425.420.3200 fax 425.420.3210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776.
509.324.9200 fax 509.324.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St Bothell WA/USA, 98011 Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/16/02 09:54

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	orting	•						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PEC-ES-01 (B2I0232-01) Soil	Sampled: 09/12/02 10:45	Receiv	ed: 09/12/0	2 14:15					
Dry Weight	81.3	1.00	%	1	2112026	09/12/02	09/13/02	BSOPSPL003R07	
PEC-SS-01 (B2I0232-02) Soil	Sampled: 09/12/02 11:10	Receive	ed: 09/12/0	2 14:15					
Dry Weight	83.7	1.00	%	1	2112026	09/12/02	09/13/02	BSOPSPL003R07	
PEC-SS-02 (B2I0232-03) Soil	Sampled: 09/12/02 11:20	Receive	ed: 09/12/0	2 14:15				·	
Dry Weight	82.2	1.00	%	1	2112026	09/12/02	09/13/02	BSOPSPL003R07	
PEC-SS-03 (B2I0232-04) Soil	Sampled: 09/12/02 11:30	Receive	ed: 09/12/0	2 14:15					_
Dry Weight	79.1	1.00	%	1	2112026	09/12/02	09/13/02	BSOPSPL003R07	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** Page 3 of 6



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fex 425.420.9210 pokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fex 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St Bothell WA/USA, 98011 Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/16/02 09:54

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

<u> </u>		Reporting	•	Spike	Source		%REC	,	RPD	•
Analyte	Result	. Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2I12025: Prepared 09/12/02	Using EP	A 3550B	•	•				· .	· 	
Blank (2112025-BLK1)										
Pentachlorophenol	ND	0.0500	mg/kg			•				
Surrogate: 2,4,6-TBP	1.30		н	1.67		7 7.8	20-173	•		٠
LCS (2112025-BS1)	•						<u> </u>	<u> </u>	·	
Pentachlorophenol	0.322	0.0500	mg/kg	0.667		48.3	24-141	_		<u></u>
Surrogate: 2,4,6-TBP	1.16		π .	1.67		69.5	20-173			
LCS Dup (2112025-BSD1)									<u> </u>	
Pentachlorophenol	0.307	0.0500	mg/kg	0.667		46.0	24-141	4.77	50	
Surrogate: 2,4,6-TBP	1.47		n	1.67		88.0	20-173	_		•
Matrix Spike (2112025-MS1)					Source: B	210232-0	2 .			
Pentachlorophenol	0.487	0.250	mg/kg dry	0.791	ND	61.6	20-167			Q-32
Surrogate: 2,4,6-TBP	6.83		п	1.98		345	20-173			Q-32,S-04
Matrix Spike Dup (2I12025-MSD1)					Source: B	210232-0	2			
Pentachlorophenol	0.623	0.250	mg/kg dry	0.794	ND	78.5	20-167	24.5	50	Q-32
Surrogate: 2,4,6-TBP	6.39		. ,,	1.98		323	20-173	-		Q-32,S-04

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

Portland

425-42.0.9200 fax 425-42.0.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Project: PCP

Project Number: [none]

Reported:

Bothell WA/USA, 98011

Project Manager: Bryan Graham

09/16/02 09:54

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North	Creek A	Analytica	I - R	othell
-------	---------	-----------	-------	--------

Analyte		Reporting Result Limit		Units	Spike Level	Source Result	%REC Limi	 RPD Limit	Notes
Batch 2I12026:	Prepared 09/12/02	Using Dr	<u> </u>			,		 	
DRICH TITEOTO:	r repareu 07/12/02	OSING DI	y vveigni					-	

Blank (2112026-BLK1)

Dry Weight 100 1.00

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** Page 5 of 6



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

425.420.9200 fax 425.420.9210

East 11115 Montgomery, Suite B, Spokene, WA 99205-4775 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fex 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Bothell WA/USA, 98011

Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/16/02 09:54

Notes and Definitions

The internal standard associated with this analyte was outside normal aceptance criteria. Re-analysis verified the original result. Q-32

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

North Creek Analytical - Bothell



East 11115 Montgomery, Sulte B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

FAX 906-9210 PAX 420-9210 PAX 924-9290 PAX 382-7588 (425) 420-9200 (509) 924-9200 (503) 906-9200 (541) 383-9310

Work Order #: FL Luzzu

DATE: 4/12/00 TARE 14.15 NCA WO 3 ç 3 ₽ 6 \<u>^</u> TURNAROUND REQUEST in Business Days* Requests lass than sounderd may been Auch Cherges DATE: TME OCHER Please Specify TEMP. COMMENTS Organic & Inorganic Analysis Petroleum Hydrocarbon A CONT. # 06 PIRM: * 10 7 MATRIX (W, S, O) 5 PRINT NAME: K. HIC Bro SAME AS LEFT DATE: 07/2 02 RECEIVED BY: 44 A RECEIVED BY: PRINT NAME: REQUESTED ANALYSES CHAIN OF CUSTODY REPORT TOME: 14(5) P.O. NUMBER: INVOICE TO: DATE TIME 万万の N.5-01-28 (BREAHAM & FWENC. dod FIRM: 1130 1120 1045 FAX: DATE/TIME SAMPLING ADDRESS: 1777 W COMMOYONE WY PROJECT NAME: PLP IMPACT PEMINAL 202/60 202160 201160 202160 KNYCHII DIO SWIL REPORT TO: 51.17 SLOAW 206. 286. 6457 SEATTLE WA SAMPLED BY: THIRTPELL RELINQUISHED BY: IDENTIFICATION CLIENT SAMPLE 80-55. 3. PEC. 55-02 10-55-01 PEC. 65.01 PROJECT NUMBER: RELINQUISHED BY: PRINT NAME: 4. 1 EC PHONE: CLIENT 7 Ë 12

PAGE

ADDITIONAL REMARKS:



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9290 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-T, Bend, OR 97701-5711 541.383.9310 fax 541.382,7588

18 September 2002

Bryan Graham Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell, WA/USA 98011

RE: PCP

Enclosed are the results of analyses for samples received by the laboratory on 09/17/02 13:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emanuel Hignutt For Amar Gill Project Manager



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fex 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 East 1929.9310 fav E41 382.7598

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St Bothell WA/USA, 98011 Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID			Laboratory ID	Matrix	Date Sampled	Date Received	
PEC-ES-02			B210321-01	Soil	09/17/02 10:10	09/17/02 13:55	
PEC-SS-04			B2I0321-02	Soil	09/17/02 10:35	09/17/02 13:55	
PEC-SS-05		•	B2I0321-03	Soil	09/17/02 10:40	09/17/02 13:55	
PEC-SS-06			B210321-04	Soil	09/17/02 12:05	09/17/02 13:55	
PEC-SS-07	÷		B2I0321-05	Soil	09/17/02 12:10	09/17/02 13:55	
						•	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 1 of 6



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

425.420.9200 fex 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fex 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fex 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fex 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St Bothell WA/USA, 98011 Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting				·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PEC-ES-02 (B2I0321-01) Soil	Sampled: 09/17/02	10:10 Recei	ved: 09/17/0	2 13:55			· · · · · · · · · · · · · · · · · · ·		
Pentachlorophenol	1.01.	. 0.0500	mg/kg dry	1	2117009	09/17/02	09/18/02	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	85.6 %	19-138	•		ff	21	. "	Ħ	,
PEC-SS-04 (B210321-02) Soil	Sampled: 09/17/02 1	0:35 Recei	ved: 09/17/02	13:55				<u> </u>	<u> </u>
Pentachlorophenol	ND	0.0500	mg/kg dry	1	2117009	09/17/02	09/18/02	EPA 8270 Mod	<u> </u>
Surrogate: 2,4,6-TBP	80.4 %	19-138			Ħ	Ħ	#	æ	
PEC-SS-05 (B2I0321-03) Soil	Sampled: 09/17/02 1	0:40 Recen	ved: 09/17/02	2 13:55					<u> </u>
Pentachlorophenol	ND	0.0500	mg/kg dry	1	2117009	09/17/02	09/18/02	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	64:7 %	19-138			π	#	n	н	
PEC-SS-06 (B210321-04) Soil	Sampled: 09/17/02 1	2:05 Receiv	ved: 09/17/02	13:55					
Pentachlorophenol	ND	0.0500	mg/kg dry	1	2117009	09/17/02	09/18/02	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	67.2 %	19-138			. #	77	7	#	
PEC-SS-07 (B210321-05) Soil	Sampled: 09/17/02 1	2:10 Receiv	ved: 09/17/02	13:55	_				
Pentachlorophenol	ND	0.0500	mg/kg dry	1	2117009	09/17/02	09/18/02	EPA 8270 Mod	
Surrogate: 2,4,6-TBP	108 %	19-138		_	Ħ	. ","	n	•	•
-									

North Creek Analytical - Bothell



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

East 11115 Montgomery, Suite 8, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St Bothell WA/USA, 98011 Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

	Re	porting							÷
Analyte	Result	Limit .	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PEC-ES-02 (B210321-01) Soil	Sampled: 09/17/02 10:10	Receiv	ed: 09/17/0	2 13:55					
Dry Weight	81.4	1.00	%	. 1	2117024	09/17/02	09/18/02	BSOPSPL003R07	
PEC-SS-04 (B2I0321-02) Soil	Sampled: 09/17/02 10:35	Receiv	ed: 09/17/0	2 13:55		<u> </u>			
Dry Weight	84.2	1.00	%	1	2117024	09/17/02	09/18/02	BSOPSPL003R07	
PEC-SS-05 (B2I0321-03) Soil	Sampled: 09/17/02 10:40	Receiv	eđ: 09/17/0	2 13:55					
Dry Weight	82.5	1.00	· %	1 .	2117024	09/17/02	09/18/02	BSOPSPL003R07	
PEC-SS-06 (B2I0321-04) Soil	Sampled: 09/17/02 12:05	Receiv	ed: 09/17/0	2 13:55				·	
Dry Weight	84.3	1.00	%	1	2117024	09/17/02	09/18/02	BSOPSPL003R07	,
PEC-SS-07 (B2I0321-05) Soil	Sampled: 09/17/02 12:10	Receiv	ed: 09/17/0	2 13:55				·	
Dry Weight	84.2	1.00	%	1	2117024	09/17/02	09/18/02	BSOPSPL003R07	

North Creek Analytical - Bothell



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fex 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4775 509.924.9200 fex 509.924.9290

Portland 9405 SW Nimbus Ayenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Bothell WA/USA, 98011

Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

• •			Reporting		Spike	Source		%REC		KPD	·
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2117009:	Prepared 09/17/02	Using EPA	A 3550B				•		 -	- 	
	K1)	•									
Pentachlorophenol		ND	0.0500	. mg/kg							<u> </u>
Surrogate: 2,4,6-TBP		1.34		<i>n</i>	1.67		80.2	19-138			
LCS (2117009-BS1)			·								
Pentachlorophenol		0.326	0.0500	mg/kg	0.667		48.9	24-141		_	
Surrogate: 2,4,6-TBP		1.27		"	1.67		76.0	19-138			•
LCS Dup (2117009-	BSD1)			_							· <u> </u>
Pentachlorophenol		0.318	0.0500	mg/kg	0.667	· · · · · · · · · · · · · · · · · · ·	47.7	.24-141	2.48	50	
Surrogate: 2,4,6-TBP	· · · · · ·	1.14		"	1.67		68.3	19-138		÷	

North Creek Analytical - Bothell



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425,420.9200 fax 425,420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaventon, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Blank (2I17024-BLK1)

Dry Weight

Bothell WA/USA, 98011

Project: PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2I17024:	Prepared 09/17/02	Using D	y Weight						-		-

100

1.00

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210

425-420-9200 fax 425-420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509-924-9200 fax 509-924-9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503-906-9200 fax 503-908-9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541-383-9310 fax 541-382-7588

Foster Wheeler Environmental Corporation

12100 NE 195th St

Bothell WA/USA, 98011

Project PCP

Project Number: [none]

Project Manager: Bryan Graham

Reported:

09/18/02 16:37

Notes and Definitions

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND ·

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Emanuel Hignutt For Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** Page 6 of 6



11720 North Creek Pkwy N, Suite 400. Bothell, WA 98011-8244
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
 20332 Empire Ayenue, Suite P-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210 (509) 924-9200 FAX 924-9290 (503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

B2IO32

Work Order #: CHAIN OF CUSTODY REPORT

NCA WO **~1** Ċ, 2 จ ن ب Bu TURNAROUND REQUEST in Business Days* Requests texs than standard may incur Rush Charges TIME 7 DATE DATTE OTHER 12 hour 5 4 3 2 COMMENTS TEMP: ر المراد المراد 4 3 2 CONT. # OF 7 FIRM: MATRIX (W, S, O) NN NN Invoice To: SCO++ Sloan Time Oil PRINT NAME: 7 RECEIVED BY: RECEIVED BY: PRINT NAME: REQUESTED ANALYSES PAX: 425-482-764/ P.O. NUMBER: DATE: 7 TOME DATE TIME: FWEME 12/00 NE 195 the Sp. 200 Bothell, WA 98011 PROJECT NUMBER: 3306,3312,0007.00013 RE 1035 2401 7385 10:10 FIRM DATE/TIME SAMPLING 4117 PHONE: 425-482-7600 SAMPLED BY: Jim ROGENS ADDRESS: 12/00 NE PROJECT NAME: TIME O! CLIENT: Tre Oi PEC-05-05 REPORT TO: Bryan 4.8EC-55-06 5 PEC-55-07 CLIENT SAMPLE IDENTIFICATION 死む-04 ADDITIONAL REMARKS: 2. 1年6-55-04 RELINQUISHED BY: RELINQUISHED BY PRINT NAME: PRINT NAME:

Voluntary Cleanup Program



Washington State Department of Ecology – Toxics Cleanup Program

SITESUMMARYANG AND
--

This form is a required component of your request for assistance under the Voluntary Cleanup Program. Please include it with your application, consultation fee, and terrestrial ecological evaluation form (if applicable).

WHICH OF THE FOLLOWING APPLY TO	YOUR SITE?	
You are requesting assistance on a planned of	leanup.	
☐ You are requesting assistance on an ongoing	cleanup.	
You are requesting review of a completed cl	eanup.	
You are requesting review of monitoring rep	oorts.	•
PERSON/ORGANIZATION MAKING R	FOLIEST FOR ASSISTANC	F
Name: Bryan S. Graham	EQUEST TOR ASSISTANCE	
Firm: Foster Wheeler Environmental		
	- 200	·
Mailing address: 12100 NE 195th Street, Suite	200	
City: Bothell	State: WA	Zip code: 98011
Telephone number: 425-482-7600	Fax number: 425-482-7652	E-mail address: bgraham@fwenc.com
WHICH BEST DESCRIBES YOUR INVO	VEMENT AT THIS SITE (THECK AS MANY THAT APPLY)
Canacine formula processioned	- Kings Timbung	er eine Einschleben Beine Geneber
រួចបំផ្លាញ « ឈោមក ្រាក្រថ្មីកែនិង្សា» «១១មករបស	្ត (ពីទ្រក់ស្ត្រ ទេវាអប់គ្រោះ X	्राम्य
If other, please specify:		
SITE IDENTIFICATION	•	
Name of site: Time Oil Company Forme	r Petroleum Terminal	
Alternative name(s) for site:		
Site address: 2737 West Commodore Way		<u>.</u>
City: Seattle State: WA Zip of	code: 98199-1233 County	: King UBI Number:
Township: 25N Range: 03E	Section: S11	Ouarter-Quarter: SE ¼ of SW ¼
Latitude: Degrees:	Minutes:	econds:
Longitude: Degrees:	Minutes: S	econds:

What method did you use to calculate latitude and longitude? NA
How many acres is the site? <1
Property type? Commercial Industrial X Residential Other Please specify:
T the manufacture operantly being used?
Is the property currently being used?
70 1 25
Are there plans for change in use? If yes, please specify:
STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES Please list all that apply. If you do not know the SIC code(s), list the activities conducted at the site (i.e. automotive repair and maintenance, construction equipment storage, etc.)
SIC Code 4226
SIC COUC TEEC

TANK INFORMATION

Please complete the table below for all above ground tanks (AST) and underground storage tanks (UST) existing or formerly existing on the property, including unregulated tanks.

				no dice		
TERROLL	। इस्ट्रेसिंग	*3 <u>=4≅</u>	न्य चर्रा (विक्रामरमहत्त्र) विक्रमान्य	(a) (a) (a) (b)	:= 11/10=5/CZ/AW/10124K	ាក្រស់ ១១ភេក្ខាខេត្ត ខេត្តបក្សាក
	#(C-8-10-10-10-10-10-10-10-10-10-10-10-10-10-			NA	NA NA	In use
591	UST	3,000 gal	N N		NA NA	In use
951	UST	1,000 gal	N N	NA NA		Temporally closed
5003	AST _	210,336	N_	NA	, <u>NA</u>	
5004	AST	214,410	NN	NA NA	NA ±.	Temporally closed
5005	AST	214,704	N	NA	NA	Temporally closed
8002	AST	341,206	N	NA	NA	Temporally closed
8206	AST	330,498	N	NA	NA	Temporally closed
	AST	589,302	N	NA	NA	Temporally closed
14001		571,200	N	NA	NA NA	Temporally closed
13808	AST		N	NA NA	NA NA	Temporally closed
13910	AST	574,518		NA NA	NA NA	Temporally closed
14009	AST	589,092	N N		NA NA	Temporally closed
12811	AST	589,470	N	NA_		Temporally closed
18107	AST	767,928	N_	NA	NA NA	
18313	AST	739,872	N _	NA	NA	Temporally closed
22014	AST	927,234	N	NA	<u>NA</u>	Temporally closed
22312	AST	908,544	N	NA	NA	Temporally closed

^{*} Unleaded, leaded diesel, bunker-C, waste oil, heating oil, aviation fuel, other (please identify)

SITE MAPS

Please include an area map that shows the general location of the site (mark the site location) and a site diagram that shows sampling and well locations.

^{**}Left in-place, removed, closed-in-place

SITE ASSESSMENT OR SITE RE	MEDIATION WORK COMPLETED	O TO-DATE
Has site assessment work been completed	at the site? Yes	
(August 2000) identified the use of PCP at 2000 and PCP-impact soil was detected in	t the site as a potential issue. A Phase II the Former PCP/Diesel Mixing Area. I	es. A Phase I Environmental Assessment investigation was conducted in the fall of Phase III activities conducted in March 2001 for review in July 2002 under the VCP. No
Has site cleanup work been conducted at t	the site? None completed relative to	PCP impacts
	results reported to Ecology?	
Does contamination remain on-site after of		
If yes, please describe the contamination?)	
FENCING) Were institutional controls used at the s been secured by a locked fence. DOCUMENTATION	cleanup reports completed for the site.	been implemented. The area has always Include the title of the report, the name of
	្ត ទីឲ្យរួចប្រជុំគ្នាវិទ្យាវិទ	(D) git
Phase I Environmental Site	Foster Wheeler Environmental	August 2000
Assessment Phase II Environmental Site	Foster Wheeler Environmental	April 2001
Assessment Phase III Environmental Site	Foster Wheeler Environmental	December 2001
Assessment Final Limited Soil Removal Activity Work Plan for Former PCP/Diesel Mixing Area	Foster Wheeler Environmental	July 2002
<u> </u>		

DANGEROUS WASTE FACILITIES

Does the facility have a dangerous waste identification (WAD) number? <u>WAD 0009591207</u>
If yes, please specify.

AFFECTED MEDIA & CONTAMINANTS

Please list the known or suspected contaminants at the site prior to cleanup. Mark the appropriate medium (such as soil) with "C" (confirmed and above Model Toxics Control Act (MTCA) cleanup standards), "B" (confirmed but below MTCA standards), "S" (suspected), "N/A" (not applicable), "O" (tested and not present), "U" (unknown).

Tontamunanie		 	Surzei	7.511) अवस्थात्वरहरू	ioliaiviaivia S	্ট্রেন্ড্রের নির্মিক্টের
		ोऽ∨-पान्दर ः ः -	M/Address			A CAREAR	(OF
Example: Lead	С	s	S	U	s	s	1967-82
PCP	С	В	NA .	NA	NA	NA	1967
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<u> </u>	· · · · ·		1				

METHODS & TREATMENT TECHNOLOGIES USED AT SITE Please check all applicable boxes that apply to your site.

	Lichterstand		A STATE OF THE STA	- Contraction before the Contraction of the Contrac		- NESSAT DE CORRES DE COMPANS DE CONTRACTOR
Caranupavariod Used		ज्ञाताम् W/गावः		opintane Mari		SDUBUS
Method A		·				
Method B	х	· 5.				
Method C						
विशेष्टरावरावरम् विवेबरागान्यवर्गाः विवेबरागान्यवर्गाः	Solid		SURBAGE W. IIP			Saplivares
Air Sparging/Air Stripping						· · · · · · · · · · · · · · · · · · ·
Bioventing						
Capping (asphalt, concrete, topsoil, RCRA cover, soil-clay, synthetic membrane)						
Carbon Adsorption						
Containment On-Site			<u>. </u>			
Containment Off-Site						
Free-product Recovery					·	
In Situ Chemical Oxidation					<u> </u>	
Natural Attenuation (dilution, volatilization, biodegradation, adsorption)						
Permeable Reactive Barriers						
Phytoremediation						
Soil Flushing						
Soil Vapor Extraction						
Thermal Desorption	Х		,			<u> </u>
Other (please specify)						
<u> </u>		J	1	1	1	

AFFECTED MEDIA & CONTAMINANTS AFTER CLEANUP

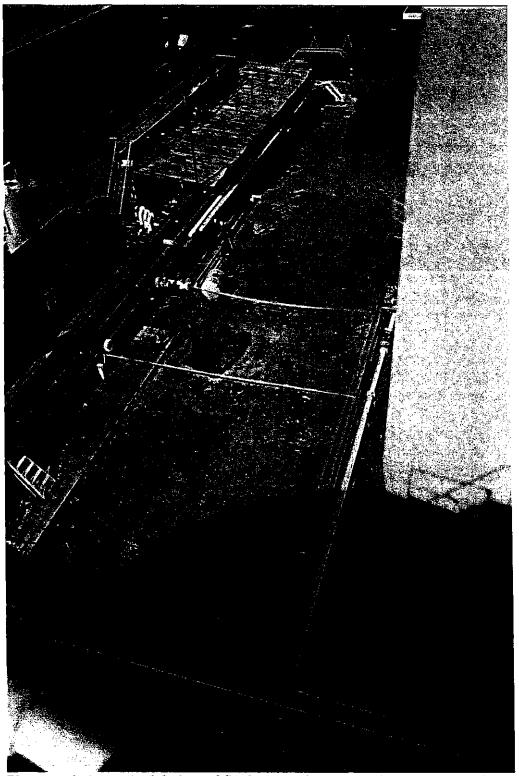
Please list the contaminants from the box on page 4 and list their status after cleanup. Mark the appropriate medium (such as soil) with "C" (confirmed and above Model Toxics Control Act (MTCA) cleanup standards but contained), "B" (confirmed but below MTCA standards), "R" (remediated and below MTCA standards), "N/A" (not applicable), "O" (tested and not present), "U" (unknown).

(tested and not present), "U" (unknown).						
(Solved Application)	Soil	์ สสูญแบบไฟในสะเ	SURFIGEV/Andic	Aut.	जबेळम्याच्यः इ.स.च्या	Danadas Whas
Example: Lead	R	0	B	U	В	0
PCP	В	В	NA	NA_	NA	NA
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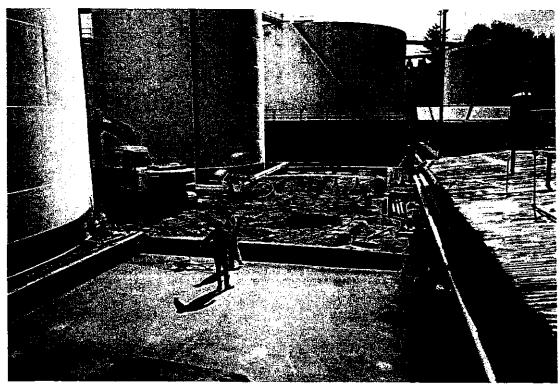
<u> </u>		RMATION
re there any drinking wells	within ½ mile of the si	te? No If yes, how many?
		
as a drinking water system	affected? No If y	es, was an alternate drinking water source provided?
as the affected drinking wa	ater system public, priv	ate, or both? NA
re there any creeks, stream	s, ponds, wetlands, or s	horelands on or adjacent to the site? No Within 4 mile of the site? Ye
yes, where are they located	d? Salmon Bay is locat	ed approximately 400 feet north of the site.
Vere they impacted by the c	contamination from the	site? No
OWNER/OPERATOR Please complete as many of Private, (2) Municipal, (3) Entitle Acquisition via Bar	of the below boxes as perfectly (4) Federal, (5)	ossible. For type of owner/operator, please use the following codes: (1) i) State, (6) Tribal, (7) Mixed, (8) Other, (9) Unknown, (10) Public
Current site owner: Time Oil	Company	Type: Industrial (1)
Street address: 2737 West Con	nmodore Way	
City: Seattle	State: WA	Zip code: 98199-1233
	owner listed above): Scot	tt Sloan, RG Environmental Project Manager
Street address:		
		r:
City:	State:	Zip code:
City: Phone: (206) 286-6457	State:	E-mail address: ssloan@timeoil.com
Phone: (206) 286-6457 Date of ownership: 1941	Fax:	·
Phone: (206) 286-6457 Date of ownership: 1941 Current operator:	Fax:	E-mail address: ssloan@timeoil.com
Phone: (206) 286-6457 Date of ownership: 1941 Current operator: Street address:	Fax:	E-mail address: ssloan@timeoil.com
Phone: (206) 286-6457 Date of ownership: 1941 Current operator:	Fax: to present State:	E-mail address: ssloan@timeoil.com Type:
Phone: (206) 286-6457 Date of ownership: 1941 Current operator: Street address: City:	Fax: to present State:	E-mail address: ssloan@timeoil.com Type:
Phone: (206) 286-6457 Date of ownership: 1941 Current operator: Street address: City: Contact person (if different that	Fax: to present State:	E-mail address: ssloan@timeoil.com Type:
Phone: (206) 286-6457 Date of ownership: 1941 Current operator: Street address: City: Contact person (if different that Street address:	Fax: to present State: an owner listed above):	E-mail address: ssloan@timeoil.com Type: Zip code:
Phone: (206) 286-6457 Date of ownership: 1941 Current operator: Street address: City: Contact person (if different that Street address: City:	Fax: to present State: an owner listed above): State:	E-mail address: ssloan@timeoil.com Type: Zip code: Zip code:

.

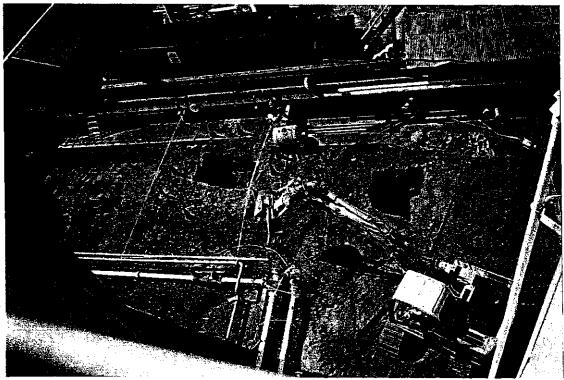
APPENDIX C SITE PHOTOGRAPHS



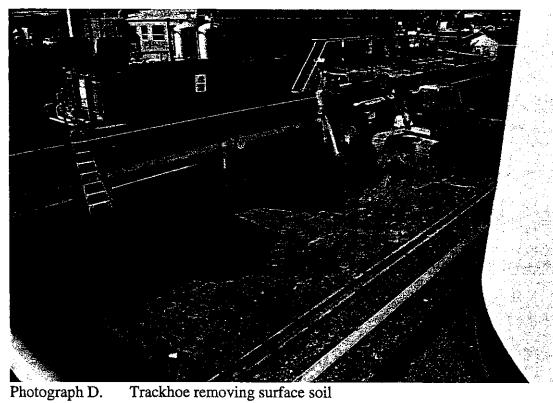
Photograph A. Aerial view of final excavation area and loadout area prior to site restoration



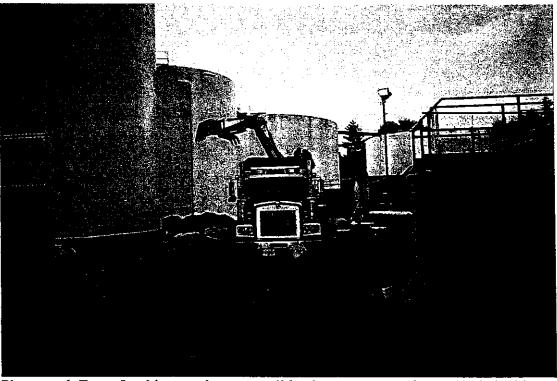
Photograph B. Looking south across excavation area



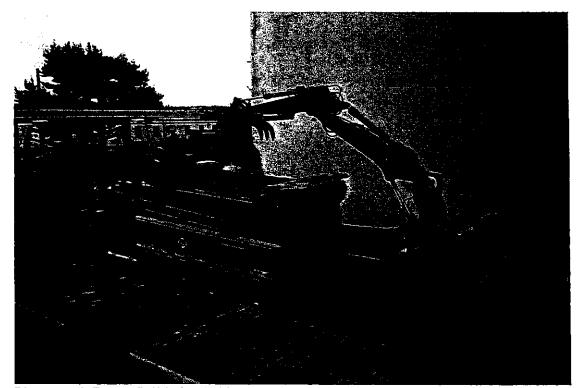
Photograph C. Aerial view of excavation area. Two subsurface locations are visible: former boring location SB-04 on left and former boring location SB-56 on right



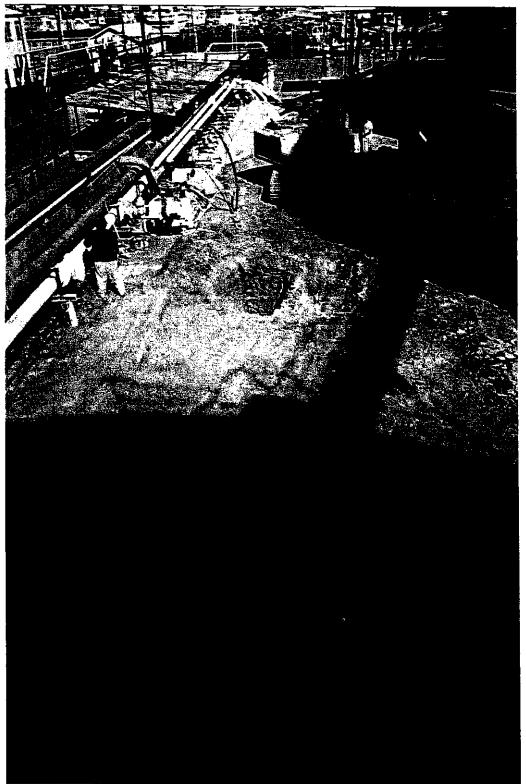
Trackhoe removing surface soil



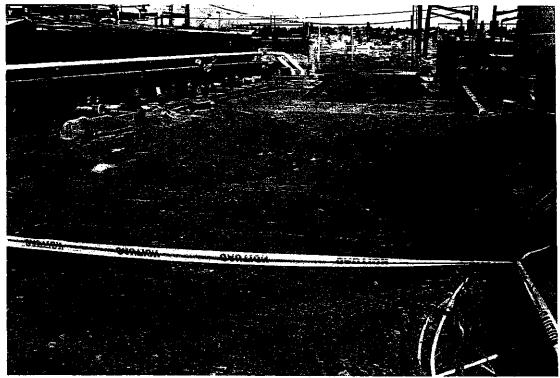
Photograph E. Looking south across soil loadout area as trucks are loaded with material



Photograph F. Soil is loaded into lined trucks for transport off site



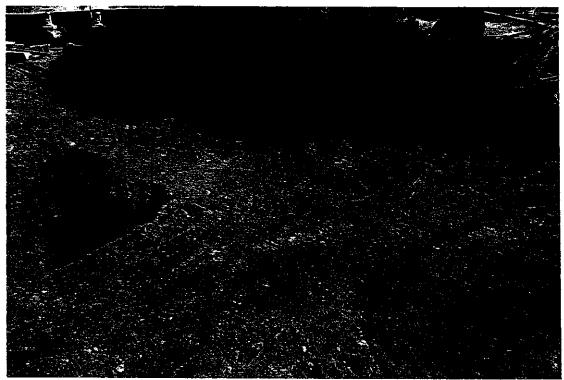
Photograph G. Looking north across initial removal area. Subsurface location PEC-ES-01 in background with sample location PEC-SS-03 on the right. Wooden stakes mark confirmation sample locations PEC-SS-01 on left and PEC-SS-02 on the right. Stockpile is visible on the right.



Photograph H. Looking north at former location of former soil boring location SB-56 (formerly well 01MW-14)



Photograph I. Close up of former location of 01MW-14 (SB-56) and confirmation sample locations; PEC-ES-02 in foreground and PEC-SS-05 in background



Photograph J. Confirmation sample locations PEC-SS-06; PEC-SS-07; and PEC-SS-04 (left to right)

APPENDIX E SOIL RECYCLING DOCUMENTATION



WEIGHTICKET WASTE ONLY

SENSOR:

Environmental Services Ltd

18:10 Net 89/18/02

ID: HUMBER: 14138

HEICHT THE #5100 kg

19:19 Het 09/18/02

ID. HUMBER: 14138

Gross 45100 kg Tare 20370 kg

HET 24730 kg

14138

CARRIER

SHIPPER WAY BILL # MANIFEST #

2085155 G

WEIGHED BY:

DATE

Distribution: Scale House Administration—Billing — Irucker (White) 是一人Blue) (Pink) (Green) 表

MANIFEST - MANIFESTE

The Markett conforms to all federal and Provincial transport and environments, legislation require membrating. Committees as conforms are Mediations federal as provincial as transport, requirent un marifests.

2085155-6

Mentiest Reference No. Nº de rélérence du manifeste

Provincial ID No. / Nº d'id. provincia Postel code / Cods postal Postal code / Code postal E Z 7405334197 Consignos Gertification: I decisus itsultis information contaked in Pari O is correct and comple Beispetion da Fespéditaux : Ja décisus que toue les resengraments à le parle C carl réficique Pathagha Contenents 2 5 5 6 Consignes information same as intended Consignes in Part A
L'Information à fournit par le destinature est le membre qu'en A
L'Information à fournit par le destinature est le membre le boued area below

Anni, compéter le boile q-desecous <u>P</u> Name of authorized person (print) / Nors de l'agent autories (cerentères d'Exprissents) Relevence nos, ol other Manifati(s) used $I N^{\rm p}$ s de rélévences des eutres manifestes utilisés Provincial ID No. / Nº d'Id. provincia . ₽ Chilironmento 100 とするこ 180610 Time / Heur Destinetion de l'expédition Production of the contract of Province 2 Il weste to be transferred, specify intended company name / Bi les déchets dolvent être transférés, préciser le nom du destinataire W YOU Il handing code "Other" (specify) Si code de manutention "divers", spécifier Company name / Nom de l'entreprise Consignee (Receiver) Destinataire 460 Z Receiving alto address? (Réceptionnaire) Jensor Addmi/Admin 33,000 0000 3 Quantity received Quantité reçu Address / Adresse א אינייר Fr O 8 2 4 Postel code / Code postal Perkaphg 8 of wasts as oflered by the consignor in Past A for delivery in contained in Past B is compared and cared. If Delimation contains a large date if a partie A on two do had nominate itself a 1 is partie B cost cared on the moments incerfal a 1 is partie B cost cared on complete. 0,00 DE V.S. 19ML 60 Prov. 1604) 318-7929 įį Name af authorized person (print) Nom de Fagent autoristé (caractères d'imprimérie). Circulation no. - Quebec only No de circulation - Réservée su Québec Regist attel No. / Nº o'mmath 10 119 H Fel. No. / Nº de 164. Provincial ID No. / Nº d'id. provincial 10 Point of exit Tel: ne. / Nº de 141, ₽ B. 5. 25 B. Adden / Adden 110011 Ouently shipped Oventile expedde P104. 23,600 Consignor Certification: I declare that the information contained in Part A is correct and complete. Déclaration de l'expéditeur : Je déclare que tous les renseignements à la partie A sont veridiques et complets. Caries Certification: I declare that I have recent to the transferre and that the trionmatic and that the trionmatic and transporteur: Justice evolvent requise a deciral transporteur: Justice evolvent to a deciral transport 04.1.10 Company name / Nom de l'entreprise Schodujed anivel dela / Data d'anivée prévue City / Villa Day John Transporteur . 1502F TOCAPH Month / Mols 2ª temorque - Wagon Freller/Rell Cer No. 2 Weste Identification freller/Rell Cer No. 0 LANJEX Month / Mola Vehicle / Véhicule Below Cl-destous Point of entry Point d'entrée Year / Armis رة ي del Ne. / M* -Ontario enty) -Ontario seut) 8 40 Mary / Almaso Maling address / Adresse postale City / Ville Province Postal code / Code postal Postal code / Code postal west Code postal Postel cade / Code postal Tor, and on bohult Alteched CI-philes IN CASE OF EMERGENCY CALL 1'1800-667-0444 2737 W. COMITONE NEV, SERUITE, WA. 96199-1233 98199-1233 7.2F 1K Provincial ID No. / No d'id. provincial WAT 009597 207 Provincial ID No. / Nº d'id. provincial APR OILD 200-5720 4TH STREET BE, CALGREY 12:00 Province Recalving site address / Destination de l'axpédition Province The / Heure STEEDWINE, ST.ID, N.O. CONTRACTOR OF THE PER - ENVIRONMENT CANADA T. ENVIRONMENTE 3 NOTITE 02/00906/11/20 P 2737 WEST COMPLICATE WAY Shipping elte address / Origine de l'expédition HAZCO ENVIRONMENTAL Special handling/Embrgency Instructions Manutention spéciale/fitsbuctions d'urgence 200-5720 4TH STREET SE 4 Clty / Ville Worth / Male Day / Jour Company name / Nom de l'entreprise A Consignor (Generator) Expediteur (Producteur) Date shipped / Date d'expédition SERVICES IID. Name of authorized person (piling) σ Address / Adresse intended consignee Destinataira prévu CALCARY SPATTE City / Ville ber / Annie City / Ville physique Ø

Myneture

(206) 286-6457

0.0

of Time Oil

Scott B. Sloan

Scott 6.

Sensor Environmental Services Ltd.

WEIGH TICKET WASTE ONLY

SEMSOR
Environmental Services Ltd.
19:05 Hed 09/18/02
ID. MUMBER: 14141
WEIGHT IN: 45/00 kg

19:43 Wed 09/18/02 1D. HUMBER: 14141 Gross 45/30 kg Tare 19960 kg

HET 25770 la

14141

CARRIER

SHIPPER	WAY BILL #	MANIFEST # 20851549		
	The second secon			
·				
WEIGHED BY:	DATE:			

Distribution: Scale House - Administration - Billing - Trucker (Blue) (Pink) (Green)

INTERNATIONAL

2085154-9 Manitest Reference No. Ne de rétérence du manifeste

MANIFEST - MANIFESTE TAIL MANIFESTE

<u>₹</u> Provincial ID No. / Nº d'id. provin-Postal code / Code postal Peakaging Vehicle Contenents Vehicle Postal code / Code posts 786333419 , 0 Q Q Consignes Criffsation: I declare that the internation contained in Part O is correct and comp Designifies for Impeditions: Le déclare que leus he reneelgmentals à la partie O cont véridis 2 <u>2</u> 2 Ę Sensor Environmenta ning / Non de Feguri autoitad (caracidene d'Imprimaris) Provincial ID No. / Nº d'Id. provincial ∛ Reference nos, ol other Maniles(s) used / Nºs de sélérences des autres manifestes utilisés 106 力方の一 Handing code Code de manvieni 2 Consignee Information same as Intended Consignee in Part A विनेवड्रं Time / Hear teceiving site address / Destination de l'expédition 000 Province Province ď Il waste to be transferred, specify intended company name / Bi les déchets dolvent être vansérés, préciser le nom du destinatèle wran If handting code "Other" (specify) S) code de manutention "divers", spécifier Company name / Nom de l'antreprise Date received / Date de reception ٨ <u>8</u> Consignes (Receiver) Destinataire 23books Manh isala (Récaptionnaire) Namy of euthorized person Plans Address / Adresse Quantity received Quantité reçu Box ممسك 7 City / Ville Mgraber. O No. Pit-8 Carrier Contitoation: I sective bild? have received wate as offered by the consigner in Past A for definery to the inspected excellence and correct. I Obelannties to the inspecteur; J gitate evolt the definition of the past of the pas Packaging Contenants Postal code / Code postal 1,21,1-618 (423) : ك . J.S Prov. 1206, 286-6457 Name of sutherized person (print) Nom de l'agent autorisé (su estères d'imprimèrie) LUNCH C. HALL Ckaliston no. - Quebec only Nº de ciralistion - Réservée su Ouébec H Registration / Nº o'Immat Shakon 19 Tal. No. / Nº de 184. 9 P.S. 3681 7211700 Provincial ID No. / Nº d'id. provincial Point of exit Point de sortie Tel, 50, / Nº du 181. 1 2 2 5 E * Z & R TRIXING COMPANY LID. Cuantity elipped Cuantile expedite III 0973 23,600 . 9 Consignor Certification: I declare that the information corrained in Part A is correct and complete. Declaration de l'expéditeur : Je déclare que tous les renseignements à la partie A sort veridiques et complets. Day / Jour Schäduled artivet date / Date d'erthée prévue Company name / Nom de l'entreprise <u>-</u> 2332 - 70A AVE. TUSATI C TOGAPIN Month / Male Trallerfield Car No. 2 2º remorque - wagon Transporteur Waste Identification Identification du déchet Ö 0 Trailer/Rall Car No. 1 南路市 Balow Cl-dessous Address / Adresse Vehicle / Véhicule Point of entry Point d'entrés Year / Annibe Provincial No. 1 Nº (Oveber-Oniario enly) (Oveber-Oniario enly) 7 CIN / VIIIe Signetice S 0 2 2272 Postal code //Code postal Postal code / Code postal Postal code / Code postal Postal code / Code postal torional on botal 5 loan (04, Time 0:) 15. IN CASE OF IMPROBILY CALL 1-800-667-0444 Attached Ct-lohites □ A.M. R.M. 28199-1233 2737 W. COMILINE WAY, SERVILE, WR. 98199-1233 12H 17C COMPANIED WITH PRINCHORDHENCE.) 200-5720 साम आस्टाय उद्य, ट्याजनस्थ, मेर गरम 170 Provincial ID No. / No d'id. provincial WWC009591207 Provincial ID No. / Nº d'Id. provincial ENTROMENTAL HAZAROLES AER 01101 STRUNNER, SCLID, N.O.S. (SCIL. THE CIT CHANK Shipping name of waste Appellation réglementaire du déchet Mailing address / Adresse postale City / Ville Province 12:40 Province Province BIVITACIMENT CRIMIN I/E Receiving site address / Destinetion de l'expédition Time / Hours ntal legistalen regulfing mentiasting. st conforme aus légistations lédérale et provinciale ment et le transport, requirent un manifeste. Province NXTINE 02/00506/1MP ₫ A B 2737 WEST COMCIDEE WAY Shipping site address / Origine de l'expédition HAZO ENTRONMENT Special handing/Emergency instructions Manutention spéciale/instructions d'urgence Name of authorized person (print) Nom de l'agent autorisé (saxetières d'impriments) 200-5720 4TH STREET SE Date shipped / Date d'expédition yest Annès Manh / Mais Day f Jaw Address / Adresse City / Ville Company name / Nom-de l'antreprise Expediteur (Producteur) SHALLES LID. A Consignor (Generator) 0 intended consignee Destinatake prévu SEMENTE SECTION City / Ville Price Circ City / Ville Ø

Sensor Environmental Services Ltd.

WEIGH TICKET WASTE ONLY

SEMSOR
Environmental Services Ltd.
18:08 Ned 09/18/02
ID. MANBER: 14137
MEIGHT IN: 45310 kg

19:09 Hed 09/18/02

ID. HUMBER: 14:137

Gross 45310 kg

Tare 20120 kg

20350

NET 21090 kg

24,960kg

14137

CARRIER

SHIPPER	WAY BILL #	MANIFEST # 2085153 1		
<u> </u>	<u> </u>			
		<u> </u>		
WEIGHED BY:	DATE:_			

Distribution: Scale House -- Administration -- Billing -- Trucker (White) (Blue) (Pink) (Green)

INTERNATIONAL

MANIFEST - MANIFESTE

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2085153-1

This Marilest conforms to all Federal and Provincial transport and armoremental splittline respiration. Consideration Consideration Consideration and armoremental and additional statements and repulsion to provincial and ferritornesment at let transport, requirement an manifestis.

<u>;</u> ₹ Provincial ID No. / Nº d'Id. provinci Consignes Certification: I decise that the information contained in Past G is served and competers. Decisation du Fespéditeur : se ééciare que tous les renseignements à la partie G eart résidques Postal code / Code postal Postal code / Code postal Packaging | Vahlot Contenants | Vahlou 200 \$ \$ 5 \$ Reference nos., of other Manifest(s) used / Nº's de rétérences des suites manifestes utilisés ₹ Provincial ID No. / Nº d'id. provincial 700 Sensor Environmen L'information à fournir par le destinataire pat la mâne qu'en A l'Alo, complete the bored l'Alo, completer le botte පි Consignee information same as intended Consignee in Part A (Sloth 1.18 older Time / Heur Receiving site address / Destination de l'expédition City / Ville Province 8 Il weste to be transferred, specify Intended company name / Si les déchets doivent éte transférés, préciser le nom du destinatée Il handiling code "Other" (specify) Si code de manutention "divers", spécifier Company name / Norm de l'entreprise 1400 Consignee (Receiver) 45.24 Manifest Reference No. Nº de référence du manifeste \mathcal{G} i O (Réceptionnaire) Address / Adresse 8 Destinataire 33200 Address / Adresse Dunnity received Quantile reçu (Sox Vicial City / Ville CIPY / VIII O 8 Postal code / Code posta waste as offered by the consignor in Part A for delivery ordatived in Part B is compelled and center (I Debiardie) forts par feripeditant data la partie A en troe de bur mars investis a la partie B ond waste et competes. JASON DHALLINA (404) 318-7929 Packaging Contenants ر ن Prov. 6.4 Name of subsected person (print) Nom de l'agent exterité (se estères d'imprimérie) źź Circuisilon no. - Quebec only Nº de circuisilon - Réservée su Quèbec Regist attatato. / Nº d'Immate Validicat 1000年 Provincial ID No. / Nº d'id, provincial Ta. 28. 25 7069.00 Point of exit Point de sortie P 5 358 Mailing address / Adresse postale City / Ville Province Postal code / Code postal Address / Adresse E OH ğ Ountly shipped Ountle expedés 23,600 Canter Certification: I declara Wild (have rece)
to the decreade consistence and this fire bromain
as the mesopereus; I deserte avoir recit to a detail
forelassy as destinataire choist of que hes reses! Day / John Campany name / Nom de l'entreprise Schyduled arrivel date / Date d'errivée prévue 23302 - 708 MME. Day / Jour HOON TOCKPIN Month / Mole Transporteur * remorque - wagon Traffer/Rall Car No. 2 2º remorque - wegon 0 Traffer/Rall Car No. Weste Identification TAX TAX Month / Mals 0 Vehicle / Vehicule Salow Ci-destous Point of entry Point of entries Identification du Signific. Year / Armide Provincial No. 1 Nº (Quebec-Chilarie only) (Quebec-Chilarie seut) $\mathbf{\omega}$ 40 32232 Year / Joints Postal code / Code postal Postal code / Code postal Postal code / Code postal Attached CI-philes IN CASE OF EMECENCY CALL 1-800-667-0444 □ ^W. (X P.W. 2737 W. COMIDGE WV. SEMINIE, W. 96199-1233 20139-1233 DI PE 200-5720 4TH STREET SE, CALGREY, AB TOH 1KG CONTRACTOR WITH PRINTS OF CROSTINGS. Provincial ID No. / No d'id. provinciat WAC009591207 Provincial ID No. / Nº d'id. provincial MAJECOMENDALIA HAZARDONE AER OTIO STRUMEN, SCLID, N.O.S. (SCIL. Shipping name of weste Appellation réglementaire du déchet Province Province 00:21 Province Receiving site address / Destination de l'expédition ENVIRONMENT CANADA I/E Time / Heura ₹ A.B. TAME (90500/20 SCILLION 2737 NEST COMCDORE WAY Shipping site address / Origine de l'expédition HAZO ENTECNEDIAL Special handling/Emergency instructions Manutention speciale/instructions d'urgence 200-5720 4TH SINUEL CE 4 City / Ville Company name / Nom de l'entreprise Month/Male Day1Jour A consignor (Generator) Expediteur (Producteur) Cate shipped / Date d'expédition Yew / Année Month / Mois Day 7.3 SERVICES LID. 6 0 70 Address / Adresse intended consignee Destinataire prevu SEMULE OVERRY Cly / Ville Physical state Etat physique City / Ville Ċζ

of Time ail to. My Scott B. Sloan TENET ALL TOTA MONTH

Name of authorizad person fortal) Nom de l'acent autorisé (carecléres d'Impr

Consignor Certification: I declare that the information coxtained in Part A is correct and complete. Declaration de l'expéditeur : Je déclare que tous les renseignements à la partie A sont verdiques et complets.

F802334197

rint) / Nons de l'agent autorité (sasacières d'Impriments)

Name of surborized person

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(206 286 - 645 F

Sensor Environmental Services Ltd.

WEIGH TICKET WASTE ONLY

SENSOR Environmental Services Ltd. 18:13 Ned 09/18/02 ID. HUMBER: 14:40 HEIGHT IN: 45900 kg

19:40 Wed 09/18/02 ID. HUMBER: 14140 Gross 45900 ka Tare 20160 ka

NET 25740 kg

14140

CARRIER

SHIPPER	WAY BILL #	MANIFEST # 20851523		
		<u></u>		
<u></u>	The second secon			
		·		
·	•			
WEIGHED BY:	DATE:			

Distribution: Scale House – Administration – Billing – Trucker (Blue) (Pink) (Green)

MANIFEST - MANIFESTE The Mariest conforms to all Faderal and Provincial transport and anniversarial legislation resolution and mariestatic En mariests and conforms our Appleation Leditors in provincias

Manifest Reference No. Nº de référence du manifeste

Provincial ID No. / Nº d'id. provincio Postal code / Code postal Postsi code / Code postsi M. 1. 6. [7] Paskeging Vehicle Contenents Yehron Consignes Cariffication: I decises that the beformation contained in Part G is carrest and competer. Deformation the Fusipidifical: Le décises que lous les ensaégnements à la partis C cont rédédiques competes. 2085152-3 \$3 Desentamination Discontamination Non, complete the boxed area below 5 Miron wear Reference nos, of other Menlissi(s) used IN^{μ_0} s de références des subsemmentestes utilisés Provincial ID No. / Nº 4'1d. provincial , , print / Non de l'agent autoriaé (anestères d'imprimete) sode Code de menulent Ion 45 Consignes information same as intended Consignes in Part A L'Information è counir par le destinataire est la même qu'en A 0613 ;: Receiving alle address / Destination de l'ambélition Time / Hear OB Province Province CITY / Valle 05/ Il waste to be brastersal, specify intended company name / Bi les déchats dolvant étra brantiérés, préciser le nom du destinaiste Il hending code "Other" (specity) Si code de manufantion "divers", epécifier Company name / Nom de l'entreprise Consignee (Receiver) M Y80 / 02 Date received / Date de recepi \mathcal{Q} (Réceptionneire) 0 Jen Sor lutte of sufferfired person 333psp Destinataire Address / Adress Box Ocanity reserved Address / Adresse كمسك લ 3 Postal code / Code postal Packaging Contenents BC. P. 6001 3/E 1902 per feupédéeur ders le perte A en vue de leur fractits à la perte il sort exects et complets. TAMTAR SEKHON Name of authorited person (pring) Non-de l'agent exhalté (serechéres d'imprimèrie) įį Circulation na. - Quebec only Nº de circulation - Réservés au Québec 16891 Registraturi No. / Nº d'Immarkenant Provincial ID No. / Nº d'id. provincial Point of ext Point de sorte 1125 Tel. na. / Nº de 141. Z & R TRITKING COMPANY IND. Prov **Duently shipped Quentit emplose** 23,600 10 OTT Consignor Certification: I declare that the information contained in Part A is correct and complete: Déclaration de l'expéditeur: Ja déclare que tous les renseignements à ja partie A sont verkiques et complets. Canter Certification: I decited (III) Have received in the the formation in the terroporated considers and the bird formation did throughout over rejuly to deciring the terroporate of a state areas residence of each receipt the terrospiporate of each formation and decitinatation actions as the consequence. Company name / Nom de l'entreprire Scheduled arrival date / Date d'arrivée prévue 23302 - 70A AVE. a Day / Jour 00 TDOAP!H LTMD/NIF Month / Male LINDON Transporteur of temorque - wagon Waste Identification Identification du déchet Fraller/Rall Car No. 2 remorque - wegon reller/Rail Car No. 0 7 0,0 Address / Adresse Vehicle / Véhicule Month / Male THE PERSON Below Cl-dessous 00 Point of entry Year / Annds CITY / VIIIS Provincial No. 1 Nº (Quebec-Ontario anty) 32232 Year, Annie behalf Bann Postal code / Code postal Special handling/Emargency Instructions
Manufacilion specials/Instructions d'urgence

TR CRESE CE EMERGENCY CNIZ, 1-800-667-0444 □ ^M. 💢 P.M. 2737 W. COMCLORG WAY, SERCITE, NR. 96199-1233 98199-1233 TEH 170 Provincial ID No. / No d'id. provincial 200-5720 4TH SIRBET SE, CALCARY, AB TOH 1KT CONTINUED WITH PRINTED GROHENCE, Provinctal ID No. / Nº d'id. provincial WACD09591207 Nam de Fagant autoirés (eurechées Brimpinneire) Foy, Gu Ll Ou **JER 0119** EWINCHMAIN HATHEOUS TIME OIL COMPANY Shipping name of waste Appellation réglementaire du déchat Mailing address / Adresse postele City / Ville Province STRUMNIS, SCLID, N.O.S. (ROIL. Province Province Province Receiving alse address / Destination de l'expédition 09 1 7 12:00 Thre / Heure ENTRONEUM CRARTA 1/E S Shipping site address / Origine de l'expédition A.B. WILLIAM (02/00506/1MP) 2737 NEST COMMODER WAY HAZO INVINCIMENTAL 200-5720 4TH SIRBRIT SE Company name / Nom de l'antreprise Address / Adresse City./ Ville Date shipped / Date d'expédition Yest / Année Month / Mole Dey / Jour A Consignor (Generator) Expediteur (Producteur) SPRVICES 100. Scott B. Inlanded consignae Destinataire prévu SPORTER OLORY CITY / VIIIs 40 Cily / Ville Physical state État physique Ø

Instructions for completion and distribution on reverse / Instructions nous completions and distribution on reverse / Instructions

1206 286-6457

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Scott B. Sloan

7868334199



SUMMARY OF SOIL DESTRUCTION TIME OIL LIMITED - SEATTLE, WA

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Gross	BIIIIng	8,739.04	8,474.16	8,749.20	8,396.08	34,358.48
Ι.		4	Ş	4	₩.	S
Billing	Rate	\$ 308.00	308.00	\$ 308.00	308.00	
⊢	\dashv	-			-	
High Con.	Surcharge			•		
⊢		-	-	-	-	1
Moisture	Surcharge	•	•	•	•	
Ľ		Ş	S	S	\$	
Base	Rate	308,00	308.00	308,00	308,00	
<u> </u>	_	\$	<u></u>	\$	<u>-</u>	_
Destroyed	(Kg's)	25,740	24,960	25,770	24,730	101,200
, Weight De	Dest # 124thert	28.374	27.514	28.407	27.260	111.554
Cert.	Dest#	3339	3339	6888	3339	
	Sub#	£	1	6	9	
Cdn, Manifest	Primary	2085152	2085153	2085154	2085155	
SO	Manifest #	SEA02	SEA01	SEA03	SEA04	
Load	Type	Soll	Soll	Soll	Soll	
Source	Location	Sealtle	Scattle	Scattle	Sealtle	
Load	Date	17-Sep-02	17-Sep-02	17-Sep-02	17-Sep-02	TOTAL

CERTIFICATE OF DESTRUCTION

HAZCO ENVIRONMENTAL SERVICES LTD-TIME 01 160-13511 VULCAN WAY FOR PERIOD ENDING:

2002/09/19

RICHMOND CANADA BC

POINT OF ORIGIN:

CALGARY CANADA AB Ì

ATTN: GREG MCCREA

Last. Waste International WP\$ Qty Shipment Manifest Destroyed Destruction Description Number Received Manifest Number Number BL 2002/SEP/18 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, LOW PCP 210193 20856811 32231 2002/SEP/18 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, LOW PCP 210235 20851119 32231 2002/SEP/18 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, HIGH PCP 210236 20851531 32232 2002/SEP/18 BL 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, HIGH PCP 210237 20851556 32232 2002/SEP/18 BL 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, LOW PCP 210238 20851135 32231 2002/SEP/18 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, HIGH PCP 32232 2002/SEP/18 210239 20851523 BL 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, HIGH PCP 210240 (2085154 32232 2002/SEP/18

Verified By:

210242 20857330

Authorized By:

Dat

? Selphy 2002

BL 2002/SEP/19 SOIL CONTAMINATED WITH PENTACHLOROPHENOLS, LOW PCP

, ; · · · O, · · · · ·

32231 2002/SEP/18

	ಹಿಂಬ್ದೆ∻ ಚಿ		Emergency Co	ontact Telepr	ione Nur	noe.					
L		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EP. WADO	A ID No. 09591207	5.6.	anifest ment No. A.O.4	2. Pa	- I in months	tion in the uired by Fe	shaded areas is deral law.	
ľA	3.	Generator's Name and Mailing Address					A. Sta	ite Manifest Doci	ment Nun	ber	_
IT	•		E OIL COMP				ĺ		Market 1997	(State of the Control	٠.
	4.	2737 W.COMMODORE WAS Generator's Phone (206 286-6443	, SEATTLE, W	A 98199-	1233		B. Sta	ite Generator's II		CAMPANS CO	_
	5.	Transporter 1 Company Name		IIS EDA I	D Number	··	C 52	ate Transporter's	ID.		<u>:</u>
Н		Z & R TRUCKING COMPA	ነ ርሞፓ ሂለ	TATA TO	ስስስስ1 ¹	2202				7.0. 70.	_
H	7	Transporter 2 Company Name	<u> </u>			2333		insporter's Phone		-318-79	<u>Z:</u>
Н	``	rangement & Company range	0. I	US EFA I	D Number			ite Transporter's			
П	<u> </u>		<u>_</u> <u>_</u>	<u> </u>	<u> </u>			nsporter's Phone	<u> </u>	<u> </u>	;
	9. !	Designated Facility Name and Site Address	10.	US EPA I	D Number		G. Sta	ite Facility's ID		01101	
П		HAZCO ENVIRONMENTAL	SERVICES L	TD.				604-2	14-70	000	,
		200-5720 4TH ST.,SE,	CALGARY, AB	T2H 1K7			H. Fa	cility's Phone		يدو فلمانو أوفائ	-
				R0000119	81			•			
	11.	US DOT Description (Including Proper Shipping I	Vame, Hazard Class, an	d ID Number)		12. Conta	ziners	13.	14.	1	<u> </u>
		HM .		•]	N/a		Total	Unit		
	a.	X WASTE ENVIRONMENTA	LLY HAZARDO	OUS SUBS	TANCE	No.	Туре	Quantity	Wt/Vol	Waste No.	13
H	_	SOLID, N.O.S.(F027),9,UN3077	.TIT		´´ 1	DТ	77 /	K		4
		(SOIL CONTAMINATED	WITH PENTA	CHI'UBUDEI	ENOL	<u>'</u>		23,600	1	.	
ŀ	-	RCRA REGULATED SOL	11) (FII) /I	OROE III	-11-CT)					<u> </u>	
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	J. 4	Additional Descriptions for Materials Listed Above		Age m	ven da	\ \ 	K Han	dling Codes for V	Jactor 1 int	nd Abmir	-
H	*	*		ade Agency	SORRY	1/	· A LISTI	uning Codes for V	, astes F12(en Vingag	
		- 1	I RE	unting -D \$		Seur \					
			· /	SEP 7	57D	18 C. B. J.					4
		<u></u>	San		Burgific High		-				, A
$\ \ $	15.	Special Handling Instructions and Additional Information	nation	Wes bour 51					•	 1	
		POINT OF DEPARTURE	: SUMAS. WA	Parke His	m. C.	امدد مهلیم	برركا	17,200	77		
11		IN CASE OF EMERGEN	· UVIIII. WE	DAY	.E. 34	piemi	- C. F.	. , , 200	<i>,</i>		
П		II. CILL OF EMERGEN	I-0UU-E	DO / - U444							1
	16.	GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this	consignment are f	illy and see:	rately door	had at	wa hu mana aki	nine e	and an alama	- T
Ш		packed, marked, and labeled, and are in all respects in	btober couquetur to traus	sport by highway ac	cording to app	olicable inter	national	and national gove	mmental a	gulations.	,
Ш		packed marked, and labeled, and are in all respects in and CONIORMS to the all if I am a large quantity generator, I certify that I have specified by any that I have specified by a profitched.	a program in place to re	A CKNOW I	-eagem	ent o	T C	onsent he degree i have	determined	to be economica	illy :
\parallel		bracecons and diet russe selected are dischicable III	sviou oi realment storac	e. or alsbosal curre	ดแง สงวะแลกเอ	in me which	minimiz	red the orecont or	d fishing the	eal to himman heal	171-
П		and the environment; OR, if I am a small quantity ger available to me and that I can afford.	erator, i nave made a go	od raith effort to min	imiże my was	ste generatio	on and s	elect the best was	te manage	ment method that	İS
		Printed/Typed Name	·	Signature /	1	Far	14.1	an Arla	14\ M	onth Day Ye	ear
7		REVIN-MURPHY		Most D.	R_ (2	 T.	n:1	מולי	.a	.7
╗	17.	Transporter 1 Acknowledgement of Receipt of Mal	erials			07)	<i>, ,</i> 7.4	. 0// (0.	. / 0	11110	<u> </u>
A	-	Printed/Typed Name	11/10-11	Signature	1 /	- 6				onth Day Ye	ear
N S		BALDEVS	SHILL K	J.g. iaiai a	W/V	KK	11.		۱۸۱۱ مر ا		2
Ĕŀ	18	Transporter 2 Acknowledgement of Receipt of Mat	oriale	<u> </u>	<u> </u>	_//_	Y			711-110	<u>~</u>
Řŀ				10:							_
TRANSPORTER		Printed/Typed Name		Signature		•			M	onth Day Ye	ear
-+	4.0			<u> </u>					L_	<u> </u>	
	19.	Discrepancy Indication Space						· -			
F		•									
F A C											
	_									•	1
L	20.	Facility Owner or Operator: Certification of receipt	of hazardous materials	covered by this ma	nifest excep	t as noted i	n Item	19.			
Ť		100	ronmenta	,	ilces	1+	d.				
Y		Printed/Typed Name	· ULITICITIC	Signature					A.A.	onth Day Vo	
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Cdn 20845154- 4 **Emergency Contact Telephone Number** 1. Generator's US EPA ID No. Manifest Information in the shaded areas is **UNIFORM HAZARDOUS** not required by Federal law. **WASTE MANIFEST** 3. Generator's Name and Mailing Address A. State Manifest Document Number TIME OIL COMPANY 2737 W.COMMODORE WAY, SEATTLE, WA 98199-1233 B. State Generator's ID 4. Generator's Phone (206) 286-6443 5. Transporter 1 Company Name C. State Transporter's ID US EPA ID Number Z & R TRUCKING COMPANY LTD. . WAR000012393 604-318-792 D. Transporter's Phone 7. Transporter 2 Company Name E. State Transporter's ID F. Transporter's Phone ABR01101 9. Designated Facility Name and Site Address G. State Facility's ID US EPA ID Number HAZCO ENVIRONMENTAL SERVICES LTD. 604-214-7000 200-5720 4TH ST., SE, CALGARY, AB T2H 1K7 H. Facility's Phone [WAR00001.1981 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 14. Unit Total Waste No. Quantity Type WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.(F027),9,UN3077,III K 23,600 (SOIL CONTAMINATED WITH PENTACHLOROPHENOL RCRA REGULATED SOLID (F027) b. R d. K. Handling Codes for Wastes Listed Above J. Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional Information DATE: September 17, 2002 POINT OF DEPARTURE: SUMAS. WA IN CASE OF EMERGENCY: 1-800-667-0444 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 governmental regulations. n and agganto comes, touy the have the chiefle EPAce acknowledge mentered to access into determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized 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. For Andlow behalf Printed/Typed Name XEVIN MURPHY Scott B. Sloan Time Dil Co. 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day

Printed/Typed Name

REVIN MURPHY Scott B. Sloan

Signature

Cot. Time Oil Co. | O.9 | I.7 | O.2

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

WARTIT S. Harris.

Signature

Signature

Month Day Year

O. 9 I.7 | O.2

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Signature

Month Day Year

O. 9 I.7 | O.2

19. Discrepancy Indication Space

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ORIGINAL — RETURN TO GENERATOR

Emergency Contact Telephone Number

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ORIGINAL - RETURN TO GENERATOR

Emergency Contact Tele	ephone Number
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ORIGINAL — RETURN TO GENERATOR



Canadian Food Inspection Agency GOVERNMENT OF CORRECT

Agrace considence d'inspection des aliments **Соочаненыя 44 Сальда**

IMPORT PERMIT

PERMIS D'IMPORTATION

Permit No./Nº de permis: P-2002-04922 AMENDED 2002/08/28 ywdaolday année mais jour

effde 2 Page 2

THIS PERMIT IS ISSUED PURSUANT TO ACE PERMIS EST DÉLIVRÉ CONFORMÉMENT A:

THE PLANT PROTECTION ACT AND REGULATIONS/LOI ET RÉGLEMENT SUR LA PROTECTION DES VEGETAUX

Importer landortaleur

HAZCO ENVIRONMENTAL SERVICES LTD

13511 VULCAN WAY RICHMOND, BRITISH COLUMBIA

VSVIKA

Applicant Name CAMPBELL, CREGORY Phone: 604-214-7000 Fax: 604-214-7017

Exporter Age with TIME OIL COMPANY

2737 W COMMODORE WAY SEATTLE WASHINGTON UNITED STATES 98199

Selected Conditions / Conditions Choisies (Continued/Suite)

Any residual material must be processed to prevent contamination.

- 3. At all times (i.e., during importation, research and storage, and until disposal), the material shall be identified with labels or other efficient identification means.
- 4. The importer and their facilities shall keep a log book of all importances. This log book shall show where the material is in the facility and its states (e.g., forwarded, treated, stored, ...).

BarbPeterson

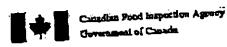
Authorized By:/Approuvé par: Robert Carbony

Executive Director / Directour Executif Plant Products Directorate Direction des produits végétaux

The information is required by (for) the Canadisa Pood Inspendon Agency for the purpose of verifying import products. Information may be accessible or protected as required mader the provisions of the Access to Information Art.

CPIA / ACIA 5067 (98/04)

Canada



Aguaco conscious d'aspession des aliments Gogvergement du Canada

IMPORT PERMIT

PERMIS D'IMPORTATION

Permit No./N° de permis: P-2002-04922 AMENDED 2002/08/28 year/molday PRINCE/WORK/JOSE

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HIS PERMIT IS ISSUED PURSUANT TO/CE PERMIS EST DÉLIVRÉ CO	INFORMÉMENT A:
THE PLANT PROTECTION ACT AND REGULATIONS/LOI ET REGLE	Experts (Experistruct TIME OIL COMPANY
Importationscriptic HAZCO ENVIRONMENTAL SERVICES LTD 13511 VULCAN WAY RICHMOND, BRITISH COLUMBIA V6VIK4	2737 W COMMODORE WAY SEATTLE WASHINGTON UNITED STATES 98199
Applicant Name: CAMPBELL GREGORY Phone: 604-214-7000 Fax: 604-214-7017	
Duarantine Destination Overagining SWAN HILLS TREATMENT CENTRE	Productor
NE 1/4 SEC 6-67-8 WSM SWAN HILLS, ALBERTA	
Valid/Valide (rom/du 2002/08/20 to/au 2003/08/20 year/month/day	Country of Propagation of Production/Le pays de multiplication on de prestaction UNITED STATES (WASHINGTON)
For the entry of Pour l'entrée de: Single shipment/Charger	I have been sufficient to the second sufficiency
Place of entry into Canada/Lieu d'entrée au Canada:	NF.
FOR THE IMPORTATION OF POUR L'INTERNATION (Description de la cu des chases)	CONDITIONS SET DU
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Selected Conditions / Conditions Choisies

CONTAMINATED SOIL

- 1. 1. Importation is authorized under Section 43 of the Plant Protection Reguladons. Phytosanitary Cartifloation at arigin is waived.
- 2. The material must be routed directly to the approved promises or facility. The material must be packaged and transported in sturdy leak proof containers. Not for sale or distribution. For industrial use only. The mention must be contained at all times to provent any past escape or exposure to the covironment.

Canada

Building, Room 5124, 1200 Pennsylvania Avenue, NW, Washington, DC 20004.

All shipments of hazardous waste must conform to all applicable State and Federal hazardous waste regulations and transportation requirements as well as these specific export requirements.

Any questions you may have concerning this Acknowledgment of Consent or other export requirements may be directed to Mr. Scott Nelson (Phone 202/564-5032), or Mr. Bob Small (Phone 202/564-5043), EPA, Office of Enforcement and Compliance Assurance.

Sincerely,

Robert G. Heiss

Director

Import-Export Program

Enforcement, Planning, Targeting and

Data Division

Office of Compliance (2222A)

You are also reminded of the following special RCRA requirements for export shipments of hazardous waste. Specific details of these requirements are contained in Title 40 of the Code of Federal Regulations, Part 262, Subpart E.

- 1. If the major terms of the original notice of intent to export on which this consent is based should change, you must renotify EPA. Please mail your renotification to: USEPA, Ariel Rios Building, Mail Code 2222A, 1200 Pennsylvania Avenue, NW, Washington, D.C. 20460, with "ATTENTION: IMPORT-EXPORT PROGRAM" prominently displayed on the front of the envelope. (262.53(c)) Alternately, notices may be sent by courier to the same office at the Ariel Rios Building, Room 5124, 1200 Pennsylvania Avenue, NW, Washington, DC 20004.
- 2. The Uniform Hazardous Waste Manifest Form for each shipment must identify the point of departure from the United States in Item 15, Special Handling Instructions. (262.54(c))
- 3. The following statement must be added to the end of the first sentence of the certification set forth in Item 16 of the Uniform Hazardous Waste Manifest Form: "and conforms to the terms of the attached EPA Acknowledgment of Consent". (262.54(d))
- 4. A copy of this Acknowledgment of Consent must be attached to the U.S. hazardous waste manifest that accompanies each shipment of hazardous waste. (262.54(h))
- 5. You must provide the waste transporter with an additional copy of the U.S. hazardous waste manifest accompanying the shipment for delivery to a U.S. Customs official at the point the hazardous waste leaves the United States in accordance with 263.20(g)(4) and (262.54(i)).
- 6. You must file an exception report with the USEPA, Ariel Rios Building, Mail Code 2222A, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, ATTN: IMPORT-EXPORT PROGRAM, if you have not received a copy of the manifest signed by the transporter stating the date and place of departure from the U.S. within forty five (45) days from the date it was accepted by the initial transporter; if within ninety (90) days from the date the waste was accepted by the initial transporter, the primary exporter has not received written confirmation from the consignee that the hazardous waste was received; or if the waste is returned to the United States. (262.55). Alternately, exception reports may be sent by courier to the same office at the Ariel Rios Building, Room 5124, 1200 Pennsylvania Avenue, NW, Washington, DC 20004.
- 7. You must file an annual report by March 1 of each year with the USEPA, Ariel Rios Building, Mail Code 2222A, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, ATTN: IMPORT-EXPORT PROGRAM, summarizing all hazardous waste shipments exported during the previous calendar year. The report must include all items listed in 262.56. Alternately, annual reports may be sent by courier to the same office at the Ariel Rios



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

August 29, 2002

OFFICE OF ENFORCEMENT AND COMPLIANCE ASSURANCE

EPA Notice No.: 506/02

MR. SCOTT SLOAN
TIME OIL COMPANY
2737 WEST COMMODORE WAY
SEATTLE, WA 98199
EPA I.D. No.: WAD009591207

Dear MR. SLOAN:

This is to acknowledge receipt of your notice, dated July 9, 2002, of intent to export hazardous waste to Canada as required by Title 40, Code of Federal Regulations, Part 262, Subpart E, Section 262.53 promulgated pursuant to the Resource Conservation and Recovery Act (RCRA). In accordance with the U.S.-Canada Bilateral Agreement on the Transboundary Movement of Hazardous Waste, the U.S. Environmental Protection Agency (EPA) forwarded your notice to the Government of Canada and Canada has no objection to your shipment(s) of hazardous waste.

This letter constitutes the EPA Acknowledgment of Consent for the export of the following hazardous waste as specified in your notice:

Waste Description: CONTAMINATED SOIL. EPA Waste Code: F027. DOT Shipping Name: HAZARDOUS WASTE, SOLID, NOS; DOT Hazard Class: 9; DOT I.D. No.: NA3077. Total Volume to be Exported: 300 TONS. Estimated Frequency: 20 loads per YEAR.

You may ship this waste to the following consignee:

SENSOR ENVIRONMENTAL SERVICES, LTD. BOX 1400 SWAN HILLS, ALBERTA CANADA TOG 2C0

Shipments may occur during the period from August 21, 2002 to July 18, 2003.

MANIFEST - MANIFESTE This Marilian conforms to all Federal and Provincial transport and anviscomantal legislation requiring manifesting. Can marilians and conformat and adjustment studies in previousla to inviscomment on the transport, required teletical provincials.

Manifest Reference No. 2085155-6	Reference nos, of other Manifest(s) used (No's de rélitiences des autres, manifestes utilisés	C Consignee (Receiver) Provincial ID No. / Nº d'id. provincial Destinataire (Réceptionnaire)	d Consignee in Part A est la même qu'en A 1 No, complète the box	Company name / Nom de l'entreprise		27/1	City / Ville Province Postal code / Code postal	5	City / Ville Povince Postal code / Code postal		Date received / Date de reception Time / Heure hard was started to the start of the	Identity any shipment descripting problems. Handing	Chantity received Lor necessary the Code Continents Vehicle Chantity received Lor necessary the Code Continents Vehicle Chantite rapy out to recessary from the Code Continents Vehicle Chantite rapy unites (crafted to Ann					II handling code "Other" (specify) Si code de manutention divers", spécifier	If waste to be transferred, specify intended	Prov	Constance Certification: I decise that the information contained in Parl Cit comed and consiste		- 1	たいけんきをのひがし イン・ケ
	Provin	Company name / Nom de l'entreprise LLL LEST J. Address 9 Agress ETALL LANGE CARRON LANGE	TUR MVI Prov. Prov. Postal code / Code pestal	Fig. Registration-No. / No d'immatriculation, y) Prov.	i		Point of exit Point of sortie Point of sortie Point of sorties Point of so	Central Commissions is despise that it take the checked water as observe by the postagons in Faul is for derivery for the interest connect. I declaration to the interest connect. I declaration the interest connect is defined and connect. I declaration deliveration the interest connect is defined and interest and enterest connected and in purish A on two de hum firstation and destinatative chicket or que lass renseignements invents à la partie d's cont avects et complete.	Name of suthorized person (print) Hanth / Mole Day / Jour Nam de l'agent aktorisé (caractères d'imprimérie)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tal. No. / No de 184.	dna	TOCAMPIN Quantile applied Log Codes TOCAMPIN Quantile applied to Log Codes LTMDAIP	000.5	111 6 54 111 03			Circulation no Quebec only Nº de circulation - Réservée su Québec		Sate d'arrivée prévue cos Day Jour		act and complete. 4 sont veridiques et complets.	Tel. no. / Nº de Uk.	The 104. AUG
This Mentiest conforms to all Federal and Provincial transport and extractments and extractmental application capturing mental stating. Can meritate ast conforms aux légistiques féderals a provinciale aux fenvironnement et le transport, requirent un mentieste.	A Consignor (Generator) Expediteur (Producteur) Any 17930201 2077 Transporteur	de / Code postal	St. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	Chy / Ville Postal code / Code postal AALTEN	(33)	Provincial IC No. / No d No. provincial	APL ALT 01101 Point of entry	Ode postal for the Mended con-	Receiving site address / Destination de l'expédition	5720 4th strater on	Chronica Postal code (Code postal Signature Chronica)	Waste identificate identificate identification du de	Shipping name of waste Provincial No. 1 Nº TT Appellation réglementaire du déchet (Quebes-Ontario only) 11 (Quebes-Ontario only) 11 (Quebes-Ontario only) 11	SMITTINGETTY ENTERING 322.		The state of the s	COLUCE 02/00426/Ind	Special handling/Emergency instructions Attached Special handling/Emergency instructions d'urgence Ci-johites Ci-johites Ci-johites	IN CARS OF EPTROBULY CYLL 1-600-667-0444	Date shipped / Date d'expédition Time / Heure Scheduled arrivel date / Date d'arrivée prévue Year / Année Month / Mole Day / Jour	0,9 1,7 12:40 0 mm Q P.M.	nt: I declare that the information contained in Part A is corrections: Je déclare que tous les renseignements à la partie A	interest discontinued of first, then if and first hand life.	SCATT 13. 3 1000 (D. T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

AANIFEST - MANIFESTE

This Manifest conforms to all Federal and Provincial transport and environmental legislation requiring manifestury. Car metalless est conforms aux Magations federal est provincial aux fenvironsennis et le transport, requirint un manifeste.

2085154-9

Manifest Reference No. Nº de rélérence du manifeste

A Consignor (Generator) Expediteur (Producteur) (ANDO)9591207	B Carrier Transporteur	Provincial ID No. / Nº d'id. provincial	erence nos, ol o illestes utilisés
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Mailing address / Adresse postale City / Ville Province Postal code / Code postal	_		(Hecephonnaire)
7737 W. COMPICES WAY, SERVICE, UR. 98199-1233	THE STATE - STATES		Consigned information same as intended Consigned in Part A. Consigned Information & forms and is designed as its makes out as A.
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RATECH FW, INC.

Лау 28, 2004 TTFWI-SEA-2004-GEO16

Mr. Jerome Cruz Washington State Department of Ecology Northwest Region 3190 16th Avenue SE Bellevue, WA 98008-5452

Transmittal of April 2004 Groundwater Monitoring Report RE:

Dear Mr. Cruz:

Please find enclosed herewith copies of the above referenced document produced for

The enclosed groundwater monitoring report contains detailed descriptions of conditions encountered during regularly scheduled quarterly groundwater monitoring conducted in October 2004. Groundwater conditions observed during both monitoring events were similar to those documented during previous groundwater monitoring events. The area of affected groundwater remains fully defined and does not appear to be migrating. The next groundwater monitoring event is currently planned for July 2004.

Time Oil Co. and TTFW looks forward to working with Ecology on this project and the upcoming implementation of the Engineering Design Report and Cleanup Action Plan, previously submitted for Ecology's review under the Voluntary Cleanup Program. Sincerely,

7

TETRA TECH FW, INC.

Bryan S. Graham, R.G., L.Hg

Project Manager

Encl: "Quarterly Groundwater Sampling Report for April 2004," May 2004

cc: Mr. Scott Sloan - Time Oil Company

Mr. Kevin Murphy - Time Oil Company

Mr. Brad Maza - Gordon, Thomas, Honeywell, et al.

Ms. Patty Dost - Schwabe, Williamson & Wyatt ...

