

September 14, 2001

Mr. Ron Kline
Northwest Wire Rope & Equipment
2301 Lincoln Avenue
Tacoma, Washington 98421

Re: Ground Water Sampling and Well Decommissioning Letter Report
Northwest Wire Rope & Equipment
2301 Lincoln Avenue
Tacoma, Washington

EPI Project No. 33501.1

Dear Mr. Kline:

Environmental Partners, Inc. (EPI) is pleased to present this Letter Report documenting ground water sampling and well decommissioning activities at the Northwest Wire Rope & Equipment facility located at 2301 Lincoln Avenue in Tacoma, Washington (subject property). The general location of the subject property is indicated on Figure 1.

The purpose of the field activities performed at the subject property and documented in this letter report is to gather sufficient information in order to obtain an unrestricted No Further Action (NFA) designation for the subject property from the Washington State Department of Ecology (Ecology) and the Tacoma-Pierce County Health Department (TPHCD) for a historic release from a gasoline underground storage tank (UST) removed from the subject property in 1991.

GROUND WATER SAMPLING

On May 9, 2001, EPI mobilized to the site to collect ground water samples from the three existing ground water monitoring wells (i.e., MW-1, MW-2, and MW-3). The locations of each monitoring well are presented on Figure 2.

Upon opening the monument to MW-3, a thick tan colored liquid with a heavy petroleum odor was observed to be present in the monument surrounding the monitoring well and floating on the water table inside the well casing. Based upon the observation of oily material at the wellhead, it appeared that the observed oily substance originated from a surface release rather than from a subsurface source of contamination. A surface release was all the more likely since at no time in the past had free phase hydrocarbons or oil been observed in this well.

Using a disposable bailer, the oily material was measured to be approximately 1.5 to 2 feet thick. Based on these observations, a ground water sample was not collected from this well during this sampling event in anticipation of further characterization and remediation.

Ground water samples were collected from MW-1 and MW-2 using a peristaltic pump and dedicated tubing. Prior to sampling, the depth to ground water was measured in each of the wells using an electronic water level meter accurate to 0.01 feet. After purging approximately 1 well volume of water from each well, ground water samples were pumped directly into appropriate sample containers at a flow rate of less than 100 milliliters/minute. Ground water samples were pumped directly into containers appropriate for the intended analyses.

Ground water samples were submitted for the following analyses:

- Gasoline-range petroleum hydrocarbons (GRPH) using the Northwest Total Petroleum Hydrocarbons as Gasoline (NWTPH-Gx) Method,
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B, and
- Dissolved lead using EPA Method 7421.

Ground water samples collected for dissolved lead analysis were field filtered using a disposable 0.45 micron filter and placed in containers preserved with nitric acid.

Immediately upon collection, all ground water samples were labeled and placed in an iced cooler pending submittal to CCI Analytical Laboratories, Inc. (CCI) in Everett Washington. All samples were handled and transported under standard chain-of-custody protocols.

In addition to the ground water samples, EPI collected a sample from the petroleum product observed in MW-3 for characterization. The product sample was submitted for the following analysis:

- Diesel- and higher-range petroleum hydrocarbons (DRPH and HRPB) using the Northwest Total Petroleum Hydrocarbons as Diesel-extended (NWTPH-Dx) Method,
- Volatile organic compounds (VOCs) by EPA Method 8260; and
- Polychlorinated biphenols (PCBs) by EPA Method 8082 Modified.

Findings

Ground water was encountered at the subject property at depths ranging from 7.15 to 8.25 feet below grade. Two ground water samples and one product sample were submitted for a range of laboratory analyses indicated above. Final laboratory analytical reports are presented in Attachment A.

Neither gasoline-range petroleum hydrocarbons, BTEX, nor dissolved lead were detected above the method detection limit in either of the ground water samples collected from MW-1 and MW-2.

Trace concentrations of compounds typically found in gasoline blends were detected in the water/product sample from MW-3. The detected compounds were n-propyl benzene at a concentration of 10 micrograms per liter ($\mu\text{g/L}$), s-butyl benzene at a concentration of 19 $\mu\text{g/L}$, and n-

butyl benzene at a concentration of 35 µg/L. These compounds are likely remnants of the natural biodegradation of gasoline, and are not individually regulated under the Model Toxics Control Act (MTCA).

PCBs were not detected in the product sample collected from MW-3.

According to CCI analytical report, the chromatogram indicates that the sample collected from MW-3 contains products which are *"likely diesel and light lube oil"*.

PRODUCT REMOVAL

Upon discovering the petroleum product in MW-3, EPI immediately scheduled a vacuum truck to remove the product from the well. CEcon Corporation (CEcon) mobilized a vacuum truck to the subject property on May 11, 2001. After approximately 4 hours of vacuum extraction, approximately 720 gallons of oily water had been removed from MW-3.

The oily water was transported by CEcon to Emerald Services, Inc. located in Seattle, Washington for recycling. A Bill of Lading and Gallonage Report is included with this report as Attachment B.

SUBSURFACE INVESTIGATION

On May 31, 2001, EPI mobilized to the site to perform a subsurface investigation at the subject property in order to characterize the extent of impacts to the surrounding soil, from the release of hydrocarbons into monitoring well MW-3.

Methodology

Monitoring well MW-3 was screened installed from approximately 3 feet below grade to 13 feet below grade. Ground water at the subject property is generally between about 7 and 8 feet below grade. Product thickness in monitoring well MW-3 was approximately 1.5 to 2 feet.

A total of 9 soil borings (NWWRB-1 through NWWRB-9) were advanced in the vicinity of ground water monitoring well MW-3 using standard direct-push technology (DPT) sampling techniques (see Figure 3). Soil borings NWWRB-1 and NWWRB-2 were installed within a 1.5 foot radius of monitoring well MW-3. The locations of all soil borings are indicated on Figure 3. Each boring was advanced to a depth of 10 feet below grade.

During drilling, soil samples were collected continuously to the total depth of exploration. Field screening was performed with special attention being given to the potential depth interval of the product in MW-3 (i.e., 6.5 to 9.5 feet below grade). Field screening consisted of screening for the presence of volatile compounds using a photoionization detector (PID) and for separate-phase hydrocarbons using sheen testing. The soil conditions encountered during drilling were described using the Unified Soil Classification System (USCS) visual-manual procedures (ASTM 2488D). The results of field screening and the soil conditions encountered during drilling are presented on soil borings logs in Attachment C.

Soil samples were selected for laboratory analysis based upon the results of field screening. A total of 8 soil samples were submitted for analysis using the NWTPH-Dx method with silica gel cleanup.

In addition to the ground water samples collected on May 9, 2001, additional ground water samples were collected from monitoring well MW-1 and MW-2 and from a temporary 1-inch well installed near MW-3 (i.e., NWWRB-7). All ground water samples collected at the subject property were collected using a peristaltic pump and dedicated tubing.

Each of the three ground water sample was submitted for analysis of DRPH and HRPB using the NWTPH-Dx method. Additionally, the ground water sample collected from soil boring NWWRB-7 was submitted for analysis of GRPH using the NWTPH-Gx method, BTEX, and dissolved lead.

Immediately upon collection, all soil and ground water samples were labeled and placed in an iced cooler pending submittal to the analytical laboratory. All samples were handled and transported under standard chain-of-custody protocols.

Findings

Soil

A total of 8 soil samples were submitted for laboratory analyses of NWTPH-Dx. Final laboratory analytical reports are presented in Attachment A.

Neither DRPH or HRPB were detected in any of the soil samples submitted for analysis.

Ground Water

A total of three ground water samples were submitted for a range of laboratory analyses. Final laboratory analytical reports are presented in Attachment A.

Neither DRPH or HRPB were detected in any of the three ground water samples above the detection limit of the method used.

Neither GRPH nor dissolved lead were detected above the detection limit of the method used in ground water sample NWWRB-7.

Benzene was detected in ground water sample NWWRB-7 at a concentration of 4 µg/L. The detected concentration of benzene is below the MTCA Method A ground water cleanup level of 5.0 µg/L.

Toluene, ethylbenzene, and total xylenes were not detected above the detection limit of the method used in ground water sample NWWRB-7.

WELL DECOMMISSIONING

Upon confirming that there were no significant subsurface impacts as a result from the release to monitoring well MW-3, EPI scheduled with CEcon to remove monitoring well MW-3. CEcon used a rubber-tire backhoe to excavate MW-3 and the soils immediately surrounding the well. The total depth of the excavation was approximately 14 feet below grade. The sidewalls of the excavation extended beyond the horizontal distance of soil borings NWWRB-1 and NWWRB-2 (see Photographs in Attachment D). This was deemed sufficient since there were no field or analytical indication of impacts in these boring locations. The excavated area is indicated on Figure 3.

A total of 6.53 tons of excavated soil were taken to TPS Technologies in Tacoma, Washington for thermal desorption treatment. A copy of the disposal paperwork is included with this report as Attachment E.

The excavation was backfilled using a self-compacting fill material (i.e., crushed rock) and then patched using hot-mix asphalt.

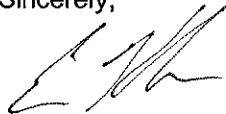
CONCLUSIONS

The following conclusions are supported by the findings of the field activities documented in this report:

- Ground water at the subject property is in compliance with MTCA Method A ground water cleanup levels for all identified contaminants of concern.
- An apparent release of an oily/diesel product to a monitoring well (MW-3) at the subject property was discovered during a routine ground water sampling event. Based on the results of a subsurface investigation including soil and ground water sampling, there does not appear to have been any significant subsurface impacts as a result from the release to MW-3. Remedial actions including ground water extraction and soil excavation have fully addressed any potential environmental impacts resulting from this release.

It has been a pleasure assisting you on this project. If you have any questions, do not hesitate to call me at (425) 889-4747.

Sincerely,



Eric Koltes
Project Manager

FIGURES

Figure 1 – General Vicinity Map

Figure 2 – Site Representation Showing Monitoring Well Locations

Figure 3 – Area of Investigation with Excavation Area

ATTACHMENTS

Attachment A – Analytical Laboratory Reports

Attachment B – Emerald Services, Inc. Bill of Lading and Gallonage Report

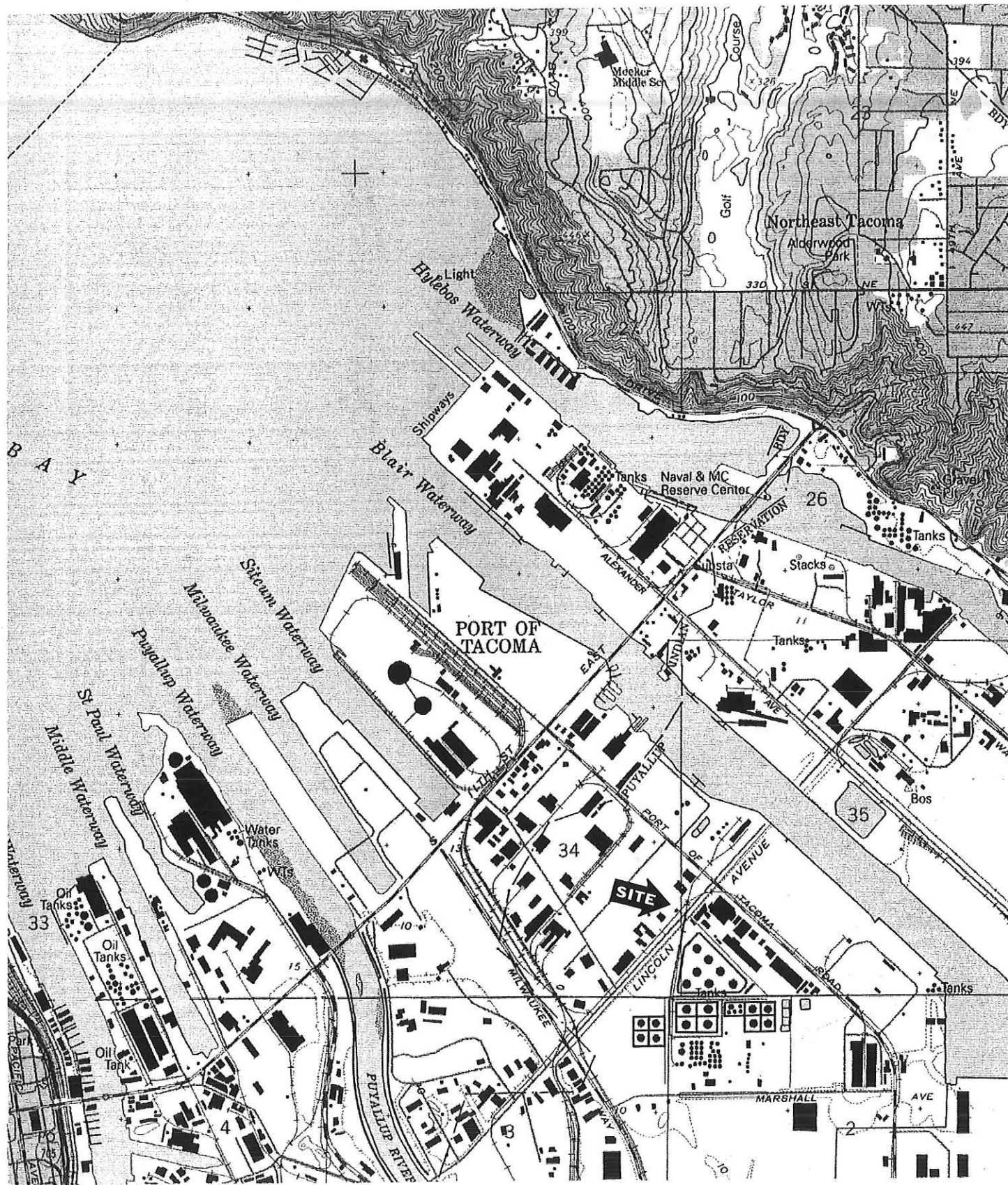
Attachment C – Soil Boring Logs

Attachment D – Photographs

Attachment E – TPS Technologies, Inc. Disposal Paperwork

QR 

TR 



KEY

SOURCE: USGS 7.5 MINUTE QUADRANGLE
(TOPOGRAPHIC)

TACOMA NORTH
1994



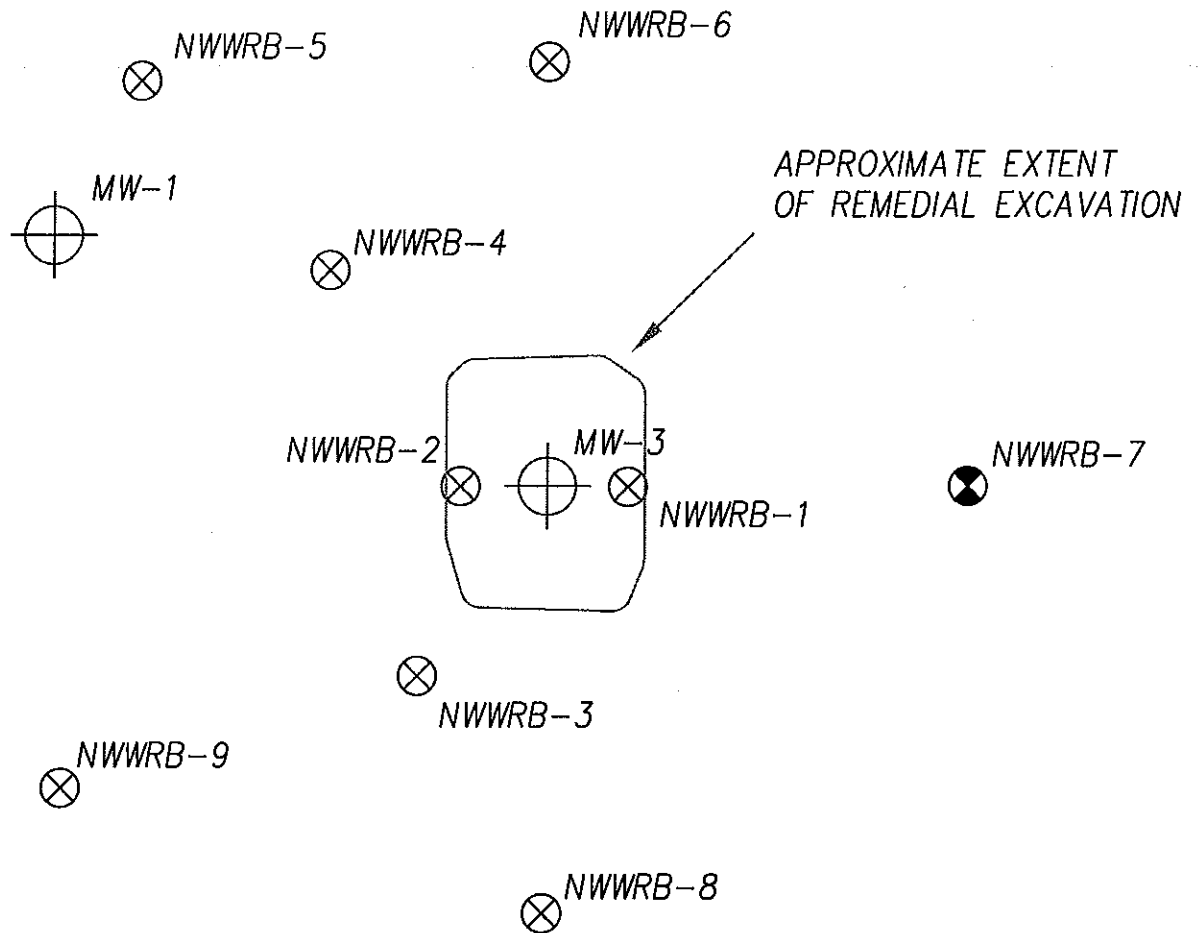
SCALE: 1:24,000

ENVIRONMENTAL
PARTNERS INC




FIGURE 1
GENERAL VICINITY MAP

PROJECT	33501.1			
PREPARED FOR	NORTHWEST WIRE ROPE & EQUIPMENT			
LOCATION	2301 LINCOLN AVENUE TACOMA, WASHINGTON			
SHEET 1 of 1	DRAWN BY EMK	REVIEWED BY EMK	DATE 09/12/01	

BUILDING



KEY

-  MW-3 GROUND WATER MONITORING WELL LOCATION
-  NWWRB-5 SOIL BORING LOCATION
-  NWWRB-7 GROUND WATER SAMPLING LOCATION

ENVIRONMENTAL
PARTNERS INC

FIGURE 3

SOIL BORING LOCATIONS WITH
EXCAVATION AREA

PROJECT	33501.1		
PREPARED FOR	NORTHWEST WIRE ROPE & EQUIPMENT		
LOCATION	2301 LINCOLN AVENUE TACOMA, WASHINGTON		
SHEET 1 of 1	DRAWN BY EMK	REVIEWED BY EMK	DATE 09/12/01

Attachment A



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 5/16/01
CCIL JOB #: 105043
CCIL SAMPLE #: 1
DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0
CLIENT SAMPLE ID: MW-1

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	UG/L		5/11/01	LAH
BENZENE	EPA-8021	ND(<1)	UG/L	5 UG/L	5/11/01	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	40 UG/L	5/11/01	LAH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	30 UG/L	5/11/01	LAH
XYLENES	EPA-8021	ND(<3)	UG/L	20 UG/L	5/11/01	LAH
LEAD	EPA-7421	ND(<0.004)	MG/L		5/14/01	LMH

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS.
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: 



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ANALYTICAL
LABORATORIES, INC.

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10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 9/12/01
CCIL JOB #: 105043
CCIL SAMPLE #: 2
DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0
CLIENT SAMPLE ID: MW-3

REPORT AMENDED 5/18/01 TO ADD ADDITIONAL PARAMETER

REPORT AMENDED TO INCLUDE REVISED SAMPLE ID

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
DICHLORODIFLUOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CHLOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
VINYL CHLORIDE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BROMOMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TRICHLOROFLUOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
ACETONE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
1,1-DICHLOROETHENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
METHYLENE CHLORIDE	EPA-8260A	ND(<25)	UG/L		5/10/01	RAL
ACRYLONITRILE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
METHYL T-BUTYL ETHER	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TRANS-1,2-DICHLOROETHENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,1-DICHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
2-BUTANONE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
CIS-1,2-DICHLOROETHENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
2,2-DICHLOROPROPANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BROMOCHLOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CHLOROFORM	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,1,1-TRICHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,1-DICHLOROPROPENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CARBON TETRACHLORIDE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2-DICHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TRICHLOROETHENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2-DICHLOROPROPANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
DIBROMOMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BROMODICHLOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TRANS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
4-METHYL-2-PENTANONE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
TOLUENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CIS-1,3-DICHLOROPROPENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL



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DATE: 9/12/01
CCIL JOB #: 105043
CCIL SAMPLE #: 2
DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0
CLIENT SAMPLE ID: MW-3

REPORT AMENDED 5/18/01 TO ADD ADDITIONAL PARAMETER

REPORT AMENDED TO INCLUDE REVISED SAMPLE ID

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL***	DATE	BY
1,1,2-TRICHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
2-HEXANONE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
1,3-DICHLOROPROPANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TETRACHLOROETHYLENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
DIBROMOCHLOROMETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2-DIBROMOETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
CHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,1,1,2-TETRACHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
ETHYLBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
M+P XYLENE	EPA-8260A	ND(<20)	UG/L		5/10/01	RAL
STYRENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
O-XYLENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BROMOFORM	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
ISOPROPYLBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,1,2,2-TETRACHLOROETHANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2,3-TRICHLOROPROPANE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
BROMOBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
N-PROPYL BENZENE	EPA-8260A	10	UG/L		5/10/01	RAL
2-CHLOROTOLUENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,3,5-TRIMETHYLBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
4-CHLOROTOLUENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
T-BUTYL BENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2,4-TRIMETHYL BENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
S-BUTYL BENZENE	EPA-8260A	19	UG/L		5/10/01	RAL
P-ISOPROPYLTOLUENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,3 DICHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,4-DICHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
N-BUTYLBENZENE	EPA-8260A	35	UG/L		5/10/01	RAL
1,2-DICHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2-DIBROMO 3-CHLOROPROPANE	EPA-8260A	ND(<50)	UG/L		5/10/01	RAL
1,2,4-TRICHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL



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CCIL JOB #: 105043
CCIL SAMPLE #: 2
DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0
CLIENT SAMPLE ID: MW-3

REPORT AMENDED 5/18/01 TO ADD ADDITIONAL PARAMETER

REPORT AMENDED TO INCLUDE REVISED SAMPLE ID

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS	ANALYSIS
				LEVEL***	DATE	BY
HEXACHLORO1,3-BUTADIENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
NAPHTHALENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
1,2,3-TRICHLOROBENZENE	EPA-8260A	ND(<10)	UG/L		5/10/01	RAL
TPH-SEMIVOLATILE RANGE SCREEN	GC/FID	SEE NOTE			5/14/01	KAS
PCB-1016	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1221	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1232	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1242	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1248	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1254	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH
PCB-1260	EPA-8082 MOD	ND(<20)	MG/KG		5/18/01	LAH

NOTE: CHROMATOGRAM INDICATES SAMPLE CONTAINS PRODUCTS WHICH ARE LIKELY DIESEL AND A LIGHT LUBE OIL

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

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: CP



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LABORATORIES, INC.

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10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 9/12/01
CCIL JOB #: 105043
CCIL SAMPLE #: 3
DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0
CLIENT SAMPLE ID: MW-2

REPORT AMENDED TO INCLUDE REVISED SAMPLE ID

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	UG/L		5/14/01	CMH
BENZENE	EPA-8021	ND(<1)	UG/L	5 UG/L	5/14/01	CMH
TOLUENE	EPA-8021	ND(<1)	UG/L	40 UG/L	5/14/01	CMH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	30 UG/L	5/14/01	CMH
XYLENES	EPA-8021	ND(<3)	UG/L	20 UG/L	5/14/01	CMH
LEAD	EPA-7421	ND(<0.004)	MG/L		5/14/01	LMH

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: OR



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ANALYTICAL
LABORATORIES, INC.

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BELLEVUE, WA 98004

DATE: 5/18/01
CCIL JOB #: 105043

DATE RECEIVED: 5/9/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.0

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
105043-01	NWTPH-GX	TFT	98
105043-01	EPA-8021	TFT	90
105043-02	NWTPH-DX	C25	132
105043-02	EPA-8260A	1,2-DCE-d4	97
105043-02	EPA-8260A	TOLUENE-d8	96
105043-02	EPA-8260A	4-BFB	99
105043-02	EPA-8082 MOD	TCMX	*
105043-02	EPA-8082 MOD	DBC	*
105043-03	NWTPH-GX	TFT	98
105043-03	EPA-8021	TFT	134

* SURROGATE DILUTED OUT OF CALIBRATION RANGE

APPROVED BY: 



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 1
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-1:5 5/31/01 0930

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NW/TPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: CPA



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 3
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-2:5 5/31/01 1010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 5
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-3:6 5/31/01 1045

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: 



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 6
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-4:5 5/31/01 1100

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: C/K



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 7
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-5:6 5/31/01 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

DIESEL RANGE REPORTING LIMIT IS 25 MG/KG

LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 8
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-6:S.5 5/31/01 1145

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 9
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-7:6 5/31/01 1215

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: 



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 10
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWRB-8:5.5 5/31/01 1300

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSTS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX W/CLEANUP	ND	MG/KG		6/4/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
LUBE OIL RANGE REPORTING LIMIT IS 50 MG/KG

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: 



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LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 11
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: MW-1 5/31/01 1130

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	UG/L		6/5/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 250 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 500 UG/L

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY:



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ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 12
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: MW-2 5/31/01 1010

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	UG/L		6/6/01	KAS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
DIESEL RANGE REPORTING LIMIT IS 250 UG/L
LUBE OIL RANGE REPORTING LIMIT IS 600 UG/L

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: CM



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007
CCIL SAMPLE #: 13
DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1
CLIENT SAMPLE ID: NWWWB-7 5/31/01 1230

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	UG/L		6/6/01	LAH
BENZENE	EPA-8021	4	UG/L	5 UG/L	6/6/01	LAH
TOLUENE	EPA-8021	ND(<1)	UG/L	40 UG/L	6/6/01	LAH
ETHYLBENZENE	EPA-8021	ND(<1)	UG/L	30 UG/L	6/6/01	LAH
XYLENES	EPA-8021	ND(<3)	UG/L	20 UG/L	6/6/01	LAH
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	UG/L		6/6/01	KAS
LEAD	EPA-7421	ND(<0.004)	MG/L		6/4/01	LMH

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 50 UG/L

DIESEL RANGE REPORTING LIMIT IS 250 UG/L

LUBE OIL RANGE REPORTING LIMIT IS 500 UG/L

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

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

APPROVED BY: 



CCI
ANALYTICAL
LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: ENVIRONMENTAL PARTNERS, INC.
10940 NE 33RD PLACE, SUITE 110
BELLEVUE, WA 98004

DATE: 6/7/01
CCIL JOB #: 106007

DATE RECEIVED: 6/1/01
WDOE ACCREDITATION #: C142

CLIENT CONTACT: ERIC KOLTES

CLIENT PROJECT ID: 33501.1

QUALITY CONTROL RESULTS

SURROGATE RECOVERY			
CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
106007-01	NWTPH-DX	C25	91
106007-03	NWTPH-DX	C25	72
106007-05	NWTPH-DX	C25	82
106007-06	NWTPH-DX	C25	74
106007-07	NWTPH-DX	C25	67
106007-8	NWTPH-DX	C25	60
106007-9	NWTPH-DX	C25	61
106007-10	NWTPH-DX	C25	61
106007-11	NWTPH-DX	C25	67
106007-12	NWTPH-DX	C25	90
106007-13	NWTPH-GX	TFT	87
106007-13	EPA-8021	TFT	99
106007-13	NWTPH-DX	C25	110

APPROVED BY: C/A

Attachment B



SERVICES FACILITIES
1500 AIRPORT WAY
SEATTLE, WA 98134

55168
**BILL OF LADING AND
GALLONAGE REPORT**

CUSTOMER KEON Corp DATE 5/19/01

JOB LOCATION _____

DRIVER _____ EQUIP _____

JOB NO _____ DOCUMENT NO 6694

PRODUCT GRAVY LITE EST. GALS 720

PRODUCT _____ EST GALS _____

PRODUCT _____ EST GALS _____

DRUMS _____ NO _____

DRUMS _____ NO _____

OTHER _____ EST SOLIDS _____

WASH OUT: YES ☒ NO ☐ TIME IN _____ TIME OUT _____

WATER 720 GAL LOCATION 615, 11:26 CODE WIP-A

SOLIDS _____ GAL LOCATION _____ CODE _____

_____ % SUSPENDED SOLIDS BY CENTRIFUGE + _____ GALS. SEDIMENT

OIL/DIESEL 720 GAL LOCATION _____ CODE _____

HOC'S _____ PCB'S _____ B.S. & W _____ API _____ LAB: YES ☐ NO ☐

GAS _____ GAL LOCATION _____

BUNKER FUEL _____ GAL LOCATION _____

OTHER _____

THIS MATERIAL IS NOT REGULATED UNDER WAC-173-303, OR 40CFR PART 261 AND 40CFR PART 761

Wayne H. H.
FACILITY REPRESENTATIVE

[Signature]
DRIVER SIGNATURE

WHITE - JOB FOLDER

YELLOW - DISPOSAL FACILITY

PINK - ACCOUNTING

GOLDENROD - CUSTOMER

Attachment C

Client: Northwest Wire and Rope	Drilling Contractor: Holt Drilling, Inc.
Logged By: Eric Koltes	Method: Direct Push
Date of Drilling: May 30, 2001	Drill Rig: Limited Access
Sheet: 1 of 1	Borehole: 2"

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Project No.: 33501.1

Project No.: 33501.1

Boring Designation: NWWRB-2

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 31, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
0			2" Asphalt						
1			Well-Graded Sand Moist; dark brownish gray; loose; mostly medium sand with trace fines.						
2		SW							
3									
4									
5									
6					NWWRB-2:5	None	2.3		Slight Petroleum Odor
7									
8									
8		ML	Sandy Silt Wet; gray; mostly silt with some fine sand.		NWWRB-2:7	None	0.0	▼	No Odor ATD 8.5'
9									
10		CL	Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity. End of Log						
11									
12									

Project No.: 33501.1

Boring Designation: NWWRB-3

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
			2" Asphalt						
			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
1									
2		SW							
3									
4									
5									
6									
7									
8					NWWRB-3:6	None	3.0		
9									
10									
		ML	Sandy Silt Wet; gray; mostly silt with some fine sand.			None	0.0		ATD 8.0'
		CL	Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity.						
			End of Log						
11									
12									

Project No.: 33501.1

Boring Designation: NWWRB-4

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
			2" Asphalt						
			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
1									
2		SW							
3									
4									
5									
6									
7									
8									
			Sandy Silt Wet; gray; mostly silt with some fine sand.						
9		ML							
			Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity.						
10		CL							
			End of Log						
11									
12									

NWWRB-4:5

None

5.1

None

0.0

ATD 8.0'

Boring Designation: NWWRB-5

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
0			2" Asphalt						
1			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
2		SW							
3									
4									
5									
6									
7									
8					NWWRB-5:5	None	13.8		
9									
8			Sandy Silt Wet; gray; mostly silt with some fine sand.						
9		ML							
10									
9			Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity.						
10		CL							
11									
12									
			End of Log						



ATD 7.5'

Project No.: 33501.1

Boring Designation: NWWRB-6

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
			2" Asphalt						
			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
1									
2		SW							
3									
4									
5									
6									
7									
8					NWWRB-6:5.5	None	0.5		
			Sandy Silt Wet; gray; mostly silt with some fine sand.						
9		ML							
			Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity.			None	0.0		
10		CL							
			End of Log						
11									
12									



ATD 7.5'

Project No.: 33501.1

Boring Designation: NWWRB-7

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001

Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0			Ground Surface						
			2" Asphalt						
			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
1									
2		SW							
3									
4									
5									
6									
7									
8					NWWRB-7:6	None	0.0		
9									
			Sandy Silt Wet; gray; mostly silt with some fine sand.						
8		ML							
9									
			Lean Clay Moist; gray; mostly lean clay with trace fines; medium plasticity.			None	0.0		
9		CL							
10			End of Log						
11									
12									



ATD 7.5'

Client: Northwest Wire and Rope	Drilling Contractor: Holt Drilling, Inc.
Logged By: Eric Koltes	Method: Direct Push
Date of Drilling: May 30, 2001	Drill Rig: Limited Access
Sheet: 1 of 1	Borehole: 2"

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Project No.: 33501.1

Project No.: 33501.1

Boring Designation: NWWRB-9

Client: Northwest Wire and Rope

Logged By: Eric Koltes

Date of Drilling: May 30, 2001


Sheet: 1 of 1

Drilling Contractor: Holt Drilling, Inc.

Method: Direct Push

Drill Rig: Limited Access

Borehole: 2"

Depth	SUBSURFACE PROFILE			SAMPLE		Sheen	PID	Well Data	Comments
	Log	USCS Code	Description	Spoon Recovery	Sample				
0		SW	Ground Surface						
			2" Asphalt						
			Well-Graded Sand Moist; dark brown; loose; mostly medium sand with trace fines.						
1									
2									
3									
4									
5					None	None			Refusal @ 5' - No Sample Recovery
6			End of Log						
7									
8		ML							
9									
10		CL							
11									
12									

Project No.: 33501.1

Attachment D

Photograph 1. View of well excavation activities.



Photograph 2. Another view of well excavation activities.

Attachment E

Manifest

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest #

Date of Shipment: Responsible for Payment: **Consultant** Transporter Truck #: Facility #: **A03** Given by TPS: **03525** Load #: **001**

Generator's Name and Billing Address: **NORTHWEST WIRE & ROPE**
2301 LINCOLN AVENUE
TACOMA, WA 98421 USA
 Generator's Phone #: **(253) 572-8981**
 Person to Contact: **RON KLINE**
 FAX#: **(253) 572-8986**
 Generator's US EPA ID No.:
 Customer Account Number with TPS: **1004093**

Consultant's Name and Billing Address: **ENVIRONMENTAL PARTNERS, INC.**
10940 NE 33rd PLACE
SUITE #110
BELLEVUE, WA 98004 USA
 Consultant's Phone #: **(425) 888-4743**
 Person to Contact: **ERIC KOLTES**
 FAX#: **(425) 888-4743**
 Customer Account Number with TPS: **1003216**

Generation Site (Transport from): (name & address)
NW WIRE ROPE & EQUIPMENT
2301 LINCOLN AVENUE
TACOMA, WA 98421 USA
 Site Phone #: **BTEX Levels**
 Person to Contact: **TPH Levels**
 FAX#: **AVG. Levels**

Designated Facility (Transport to): (name & address)
TPS Technologies Inc.
2800 - 104th Street Court South
Lakewood, WA 98499 USA
 Facility Phone #: **(253) 584-8430**
 Person to Contact: **Renee Avelino**
 FAX#: **(253) 584-8309**
 Facility Permit Numbers: **Rica Nelson**

Transporter Name and Mailing Address: **CECON CORPORATION**
1703 PORTLAND AVENUE
TACOMA, WA 98421-2803 USA
 Transporter's Phone #: **(253) 272-8851**
 Person to Contact: **PINKY CARLL**
 FAX#: **(253) 272-1334**
 Transporter's US EPA ID No.:
 Transporter's DOT No.:
 Customer Account Number with TPS: **1001401**

Description of Soil	Molsture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			25680	12620	13060
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>		NET TONS=	6.53		

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

Print or Type Name: Generator ☐ Consultant ☐ Signature and date: Month Day Year
 -->

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

Print or Type Name: **Bret W. Irwin** Signature and date: **Bret W. Irwin** Month Day Year **8 21 01**

Discrepancies:

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

Print or Type Name: **R. Avelino/R. Nelson** Signature and date: **Randy Murphy** **8/21/01**

Please print or type:

TPS FACILITY COPY

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report

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

Job Number		Name	SiteAddress	SiteCity	State	ZipCode	
A03 --		03525 NW WIRE ROPE & EQUIPM	2301 LINCOLN AVENUE	TACOMA	WA	98421	
Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	08/21/01 08:58	1001401	BRET	25,680M	12,620M	13,060	6.53
Completed Loads		Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:		
100.00%		1	65.30%	10.00(tons)	6.53 (tons)		

[SM-RPT9]

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8/22/01