#### **Harding Lawson Associates**

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DEPT. OF ECOLOGY

January 14, 1991

20184,002.09

Mrs. Cathy Waldron CAM Properties 18250 - 68 Avenue South Kent, Washington 98032

Dear Mrs. Waldron:

Phase II Investigation Report CAM Properties 18250 - 68 Avenue South Kent, Washington

#### INTRODUCTION

This letter presents the findings of a Phase II investigation performed by Harding Lawson Associates (HLA) for CAM Properties at 18250 - 68 Avenue South in Kent, Washington. This investigation was performed in accordance with HLA's recommendations in our letter dated October 25, 1990. HLA previously completed a preliminary hazardous materials site assessment of the subject property, and the results are presented in our report dated November 1, 1990.

The objective of the Phase II investigation was to further evaluate the potential impact of two previous fuel underground storage tanks (USTs) removed in 1987, and the stained soil near the blast room and wet scrubber associated with the existing manufacturing facility on the property. The Phase II investigation was authorized by Mrs. Cathy Waldon of CAM Properties on November 9, 1990. HLA's scope of services included the following tasks:

- Drill and sample two borings at the previous location of the diesel and gasoline underground storage tanks. Collect one soil sample from each boring, and analyze for total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene, and xylene (BTEX).
- Collect soil samples at the surface and at depths up to 1 foot deep at three locations within the stained-soil area adjacent to the wet scrubber and blast room. Analyze soil samples for heavy metals and volatile organic compounds.

• Evaluate the data and prepare this report.

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#### FIELD INVESTIGATION

Two soil borings (B1 and B2) were drilled to approximately 11.5 feet in depth, and sampled on November 15, 1990. In addition, soils were hand sampled at three locations (CAM 1 through CAM 3) adjacent to the blast room and wet scrubber. Boring and hand sampling locations are shown on Figure 1. The borings were drilled by HLA's subcontractor, Pacific Testing Laboratories (Seattle, Washington) with truck-mounted drilling equipment using 8-inch outsidediameter hollow-stem augers.

An HLA geologist observed the drilling and hand sampling activities, logged the soils encountered, and collected soil samples. Prior to drilling the two boreholes, the location of the previous fuel USTs and utility clearance was provided by Mr. Dale Pack of CAM Industries (tenant). Soil samples in each of the borings were collected at approximately 5-foot intervals using a split-barrel sampler. Soil from the sampler was observed for visible signs of petroleum contamination (e.g. discoloration, odor) and a representative portion was selected for chemical analysis. The selected soil sample (10- to 11.5-foot interval) was immediately placed in laboratory provided sample jars, sealed, labeled, and placed on ice in a field cooler. All sampling equipment (augers, split spoon) was steam cleaned between sample intervals and borings.

Hand sampling in the stained-soil area was performed using stainless steel trowels and scoops. Surface samples (0 to 3 inches) were collected first, and placed in laboratory provided jars, sealed, labeled, and placed immediately on ice in a field cooler. Deeper soil samples (6 to 9 inches) were obtained by excavating to a depth of 6 inches with a stainless steel scoop or shovel as appropriate. Observations of the depth of soil discoloration were noted during excavation. Soil samples from the deeper interval were collected and handled similar to the surface samples.

Upon completion of drilling, the boreholes were backfilled with bentonite chips, and capped with concrete. Cuttings from the boreholes were placed in drums provided by the facility, and left onsite pending disposal.

#### SUBSURFACE CONDITIONS

Soils encountered during drilling consisted of medium brown fine sand with occasional gravel, from the ground surface to approximately 6 feet below ground surface (bgs). Gray-brown silty clay/clayey silts extend from approximately 6 to 10 feet. Soils beneath the silty clay/clayey silt consisted of fine sand.

Groundwater was encountered in both borings at 7.5 feet bgs. Observations of the soils encountered did not reveal indications of visual staining, and petroleum odors were not

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observed. Soils were screened with an organic vapor meter, and results did not indicate the presence of organic vapors from the soils or within the open borehole.

Surface soils in the area of the wet scrubber consisted of sandy gravel with minor amounts of silt that extended from the surface to a depth of approximately 6 inches. This gravel was underlain by light gray brown silty sand with some gravel. Observations during sampling indicated that the surficial gravel was stained a reddish-orange to a depth of 6 inches. The underlying sand was not observed to be stained. The areal extent of the discolored soil is shown on Figure 1.

A dense, solidified layer of black material was encountered at 2 to 3 inches bgs at the CAM 1 sampling location, and pieces of a similar material were encountered at the CAM 2 sampling site at the same depth.

### LABORATORY ANALYSIS

The two soil samples from the borings (B1, B2) and the six soil samples from the hand sampling locations (CAM 1, CAM 2, and CAM 3) were submitted under chain-of-custody protocol to Pacific Northwest Environmental Laboratory, Inc. (PNEL) of Redmond, Washington for chemical analyses. The two samples from the borings were analyzed for TPH and BTEX. The six samples from the stained-soil area were analyzed for heavy metals and volatile organic compounds. The results of these chemical analyses are summarized in Table 1. A complete copy of the laboratory analytical report which includes the analytical methods utilized, and quality control data, is provided as Attachment A to this report.

Table 1 also provides proposed soil cleanup levels for industrial sites as presented in the July 18, 1990, proposed amendments to the Model Toxics Control Act Cleanup Regulation (MTCA).

#### DISCUSSION OF RESULTS

A discussion of the results of the Phase II investigation is presented in the following paragraphs.

### Previous Fuel USTs

Analytical results for soil samples obtained in the previous location of fuel USTs located at the site indicate a very low concentration (7 parts per billion [ppb]) of total xylenes in sample B1, with all other constituents below method detection limits. Sample B2 was found to contain TPH (as motor oil) at a concentration of 580 parts per million (ppm). As shown in Table 1, the

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concentration of total xylenes is significantly below the proposed MTCA cleanup level; however, the TPH concentration found in sample B2 is above the MTCA cleanup level of 200 ppm. Soil samples and cuttings from both borings did not contain visual indications (e.g. soil discoloration) of petroleum contamination nor were there noticeable petroleum odors during drilling and sampling. Based on these observations and the fact that sample B1 did not contain detectable concentrations of TPH, the extent of TPH found in soil sample B2 appears to be limited.

#### Wet Scrubber and Blast Room

Results of the soil samples obtained in the stained soil adjacent to the wet scrubber and blast room indicate the presence of toluene and total xylenes in the surface samples (0 to 3 inches bgs) at concentrations ranging from 6 to 18 ppb, and 6 to 17 ppb, respectively. Soil samples obtained from the 6- to 9-inch bgs interval did not contain any constituent above method detection limits. However, results also indicate the presence of volatile organic compounds (VOCs) in both the surface and deeper soil samples at trace levels including methylene chloride, acetone, chloroform, 2-butanone, benzene, ethylbenzene, toluene, and xylenes. In all cases, these VOCs were detected at below the method quantification limit, and are estimated concentrations. Acetone was also found in the laboratory blanks indicating that the presence of this compound is likely attributed to laboratory procedures. The detected concentrations of toluene and xylenes are significantly below the proposed MTCA cleanup levels shown in Table 1.

Except for cadmium, all other heavy metals analyzed were detected in both the surface and deeper soil samples. As shown in Table 1, the concentrations of the heavy metals decrease significantly with depth; in many cases, this decrease is up to an order of magnitude or greater. The exception to the trend of decreasing concentration with depth is the concentration of zinc in samples CAM-3S and CAM-3D, where concentration at depth is greater than that found in the surface sample.

Concentrations of chromium and lead in samples CAM-1S, CAM-2S, and CAM-3S exceed the proposed MTCA cleanup levels. The concentrations of these two compounds are below the proposed cleanup levels in the deeper soil samples (i.e., CAM-1D, CAM-2D, and CAM-3D).

Currently, cleanup standards do not exist for barium, copper, nickel, and zinc in soils. A previous draft (March 8, 1990) of the proposed MTCA cleanup regulation provided cleanup levels for copper and zinc of 500 ppm each. If these cleanup values were to be used, then samples CAM-1S, CAM-2S, CAM-3S, and CAM-3D would exceed the 500 ppm limit.

Based on the visual observations made during sampling, and the analytical results, it appears that the soils exceeding proposed cleanup levels for selected heavy metals are contained within the upper 6 inches of soil. Also, there appears to be a moderate correlation between the depth

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of visual staining and depth at which soils contain metal concentrations exceeding cleanup levels.

### <u>Closure</u>

We believe that this report provides you the information you require at this time. If you have any questions regarding this report, please do not hesitate to call.

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Yours very truly,

HARDING LAWSON ASSOCIATES

Susan C. Walker Staff Geologist

Daniel A. Balbiani, P.E. Managing Principal Engineer

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Attachment: A--Analytical Laboratory Report

TABLE 1 - SUNMARY OF ANALYTICAL RESULTS

ANALYTE	UNITS.	CAX-15 (0-3")	CAH-1D (6-9")	CAK-2S (0-3°)	CAH-2D (6-9°)	CAH-3S (0-3°)	CAM-3D (6-9°)	B1 (10-11.5')	B2 (10-11.5')	Proposed HTCA Clean up Level fo Industrial Sites
Hethylene Chloride	¦ ppb ¦	 3 J	ND	4J	ij	ND	ND	 NA	NA	500
Acetone	ppb	6 B J	4 J B	5jB	ND	8 J B	11B	NA .	NA	
~bloroform	ppb	ND	ND	ND	5 J	ND	: ND	NA	NA I	
/Butanone	ppb	ND	ND	. ND	ND	ND	2J	NA	NA I	*-
Benzene	ppb	3 J	DК	1J	ND	2 J	DK	ND	ND	500
Bthylbenzene	ppb {	ND	ND	ND	ND	1J	: ND	ND ·	ND	20,000
Toluene	ppb }	18	3 J	6	3 J	3 J	4J	5 J	ND	40,000
Xylenes (total)	ppb	17	4 J	5 J	3 J	6	5J	1	ND [	20,000
Bariun -	i i   ppm	4720	45.1	1,650	245	370	259	NA	NA	
Cadnium	ppm	ND	ND	ND	ND	ND	: ND	NA	NA	10
Chronium	ppn	1,640	61.6	1,280	223	1,170	39.3	NA	NA	500
Copper	ppa	1,000	122	615	213	746	667	NA	NA	
Lead	ppn	4,160	73.7	3,210	680	1,000	686	NA	NA	1,000
Nickel	ppm	567	48.3	482	116	935	32.7	NA	NA	
Zinc	ррл	19,700	241	14,700	1,550	446	2,260	NA	NA	
трн	i ppm	NA	NA	NA	NA	NA	, NV	ND	580	200

· [1] [1]

notes:

. ppb - parts per billion (ug/kg)

ppm - parts per million (mg/kg)

B - Indicates compound was found in the associated laboratory blank as well as the sample.

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J - Indicates estimated value. Presence of compound meets laboratory identification criteria but is less than the sample quantitation limit but greater than zero.

NA - Compund not analyzed.

ND - Not detected.

-- - Proposed HTCA clean up level not available.



18250 68TH AVENUE SOUTH KENT, WASHINGTON ONAL EXPRESS LABORATORIES, INC.



Pacific Northwest Environmental Laboratory, Inc. 3820 159th Avenue, N.E. Redmond, WA 98052 (206) 885-0083 FAX (206) 867-2214

November 28, 1990

Dan Balbiani Harding Lawson Associates 1325 Fourth Avenue, Suite 1800 Seattle WA 98101

### NARRATIVE FOR PNEL 2773

Enclosed are data summary sheets and supporting documentation for the samples received on November 15, 1990. The samples were received as follows:

<u>FIELD ID</u>	LAB ID	DATE COLLECTED
CAM 1S CAM 2S CAM 3S CAM 1D CAM 2D CAM 3D B1 B2	2773-01 2773-02 2773-03 2773-04 2773-05 2773-06 2773-07 2773-08	11-15-90 11-15-90 11-15-90 11-15-90 11-15-90 11-15-90 11-15-90 11-15-90
Trip Blank	2773-09	11-15-90

Listed below are anomalies and narratives associated with the receipt and/or analysis of the samples.

#### Sample Receiving

There were no anomalies associated with the receipt of these samples.

#### Volatiles; BETX Analyses

The samples were analyzed according to the low level procedure. Sample 2773-01 showed a high recovery of  $d_8$ -toluene. Matrix spikes, also run on sample 2773-01, showed similar results, suggesting that the phenomenon may be attributed to the sample matrix. Samples 2773-07 and 2773-08 for BTEX analysis (by Method 8020) were also analyzed according to Method 8240.

### TPH-GC Analysis

No anomalies to report with this case.

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#### Metals Analysis

The following anomalies occurred in the analyses of these samples:

- The matrix spike sample percent recoveries of Barium, Cadmium, Copper, and Nickel were outside of the established control limits of 75-125% for sample 2773-05.
- The duplicate sample relative percent differences of Barium, Chromium, Copper, Lead, Nickel, and Zinc were outside the warning control limits of +/-20%, but was within +/-50% for sample 2773-05.

### Inorganic Quality Control/Quality Assurance

Blank Analysis - a method blank is prepared with each batch of samples digested or extracted. The method blank defines the level of background (laboratory) contamination.

Duplicate Analysis - selected samples are prepared and analyzed in duplicate to define the precision of the results. These results have been summarized in the QC section of this report.

Matrix Spike Analysis - each of the analytes of interest are added to the selected samples prior to sample preparation. The results of matrix spike analyses define the accuracy of the results. These results have been summarized in the QC section of this report.

The ICP was calibrated on a blank and a standard for all parameters analyzed by this method. Calibration verification is conducted every two hours or every ten samples, whichever is more frequent.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,

Rand G. Jenkine

\NAR-0504.773 Enclosures

### METHOD REFERENCE

Gas Chromatograph/Mass Spectrometry for Volatile Organics

Total Petroleum Hydrocarbons (Gas Chromatography)

Sludges and Solids

 
 for Evaluating Solid Waste, United States Environmental Protection Agency, SW-846, 3rd Ed., 1986.

 Acid Digestion of Sediments,
 Method 3050, Test Methods for Evaluating Solid Waste, United State

Inductively Coupled Plasma Method Method 3050, <u>Test Methods for Evaluating Solid Waste</u>, United States Environmental Protection Agency, SW-846, 3rd Ed., 1986.

Method 8240, Test Methods for Evaluating Solid Waste, United States

Extraction as per the California State Water Resources Control Board

revision, followed by GC analysis, Modified Method 8015, Test Methods

"Leaking Underground Fuel Tank (LUFT) Field Manual", April 1989

Environmental Protection Agency, SW-846, 3rd Ed., 1986.

Method 6010, <u>Test Methods for Evaluating Solid Waste</u>, United States Environmental Protection Agency, SW-846, 3rd Ed., 1986.

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NATIONAL EXPRESS LABORATORIES, INC.

#### Pacific Nonhwest Environmental Laboratory, Inc. 3820 159th Avenue, N.E. Redmond, WA 98052 (206) 885-0083 FAX (206) 857-2214

### DATA REPORTING QUALIFIERS

Some of these qualifiers may appear in this analytical data report. Soil samples are analyzed and reported on a dry weight basis unless otherwise noted.

### ORGANICS QUALIFIERS

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ΈX

- B Indicates compound was found in the associated blank as well as in the sample.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a target compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- M Indicates value is taken from a medium level analysis.
- ND- Not detected. Detection limit shown in parentheses.
- NQ- Not quantitated as...
- U Indicates compound was analyzed for but not detected at the given detection limit. The sample quantitation limit was corrected for dilution and for percent moisture, when applicable.
- X Other specific flags and footnotes may be required to properly define the results. If more than two qualifiers are required for a sample result, the "X" flag combines several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample.
- \* Indicates spiked compounds used for MS/MSD analysis.

### **INORGANICS QUALIFIERS**

- NA- Relative percent difference calculation is not applicable to analytes when not detected.
- NC- Not calculated when analyte is not detected.
- NS- Not calculated when sample concentration of analyte exceeds spike level by a factor of four or more.
- U Indicates that analyte was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

### INORGANICS METHOD QUALIFIERS

- CV- Manual Cold Vapor AA
- F FURNACE AA
- P ICP

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 2773-01 Soil 5.0 g Low Cap.	Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	CAM 1S 11-15-90 11-19-90 1.0 B5248 24
CAS No.	Compound		<u>Units: µg/kg</u>	
74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Carbon Tetrachlo Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichlor Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethen 1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ne ne (total) ne thane ride hane propene hane thane ropropene none	$     \begin{array}{r}       13 \\       13 \\       13 \\       13 \\       13 \\       13 \\       13 \\       7 \\       13 \\       13 \\       7 \\       7 \\       7 \\       18 \\       7 \\       3 \\       7 \\       17 \\       17       $	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 2773-02 Soil 5.0 g Low Cap.	Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	CAM 2S 11-15-90 11-20-90 1.0 B5259 18 Dn
CAS No.	Compound		<u>Units: µq/ko</u>	r C
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-35-4 75-35-4 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Carbon Tetrachlor Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichlor Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethene Istromethene Chlorobenzene Ethylbenzene Styrene	ene ene (total) ene (total) ene ethane oride chane opropene chane ethane oropropene anone	12 12 12 12 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	U U J B U U U U U U U U U U U U U U U U
1330-20-7	Xylenes (total)	•	5	J.

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### VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	Soil 5.0 g Low Cap.	Client Sample Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor: <i>Concentratio</i>	
<u>CAS No.</u>	Compound		<u>Units: µ</u> q/kg	<u>v</u>
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Chloroform 1,2-Dichloroethe Carbon Tetrachlor Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichloro Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethene I,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ene ine ene (total) ine ethane oride chane opropene chane ethane oropropene anone	$\begin{array}{c}11\\11\\11\\11\\58555555\\555555555555555555$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	Soil 5.0 g Low Cap.	Client Sample Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	
$\begin{array}{c} CAS  No. \\ \hline 74-87-3 \\ 74-83-9 \\ 75-01-4 \\ 75-00-3 \\ 75-09-2 \\ 67-64-1 \\ 75-35-4 \\ 75-35-4 \\ 75-35-4 \\ 75-34-3 \\ 540-59-0 \\ 67-66-3 \\ 107-06-2 \\ 78-93-3 \\ 71-55-6 \\ 56-23-5 \\ 108-05-4 \\ 75-27-4 \\ 78-87-5 \\ 10051-01-5 \\ 79-01-6 \\ 124-48-1 \\ 78-87-5 \\ 10051-01-5 \\ 79-01-6 \\ 124-48-1 \\ 78-00-5 \\ 71-43-2 \\ 10061-02-6 \\ 75-25-2 \\ 108-10-1 \\ 591-78-6 \\ 127-18-4 \\ 78-34-5 \\ 108-88-3 \\ 108-90-7 \\ 100-41-4 \\ 100-42-5 \\ 1330-20-7 \\ \end{array}$	Compound Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroetha 2-Butanone 1,1,1-Trichloroe Carbon Tetrachlo Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichloro Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ne ne (total) ne thane ride hane ane propene hane thane ropropene none	$ \begin{array}{c} 11\\ 11\\ 11\\ 11\\ 11\\ 11\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\$	q       Q         U       U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 2773-05 Soil 5.0 g Low Cap.	Client Sample Date Sample Date Sample Dilution Fac Lab File ID % Moisture:	Received: Analyzed: ctor:	CAM 2D 11-15-90 11-19-90 1.0 B5251 11
CAS No.	Compound		Concentrati <u>Units: µ</u> g/k	
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-35-4 75-35-4 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroetha 2-Butanone 1,1,1-Trichloroe Carbon Tetrachlo Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichloro Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethen 1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene	ne ne (total) ne thane thane propene hane thane thane thane oropropene	11 11 11 11 11 11 6 6 6 6 6 6 6 6 6 6 6	U V V V V V V V V V V V V V V V V V V V
1330-20-7	Xylenes (total)	•	3	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:		Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	11-19-90 1.0 B5252 10
<u>CAS No.</u>	Compound		<u>Units: µq/k</u> q	r Q
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-35-4 75-35-4 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,1-Dichloroethe Chloroform 1,2-Dichloroethe Chloroform 1,2-Dichloroetha 2-Butanone 1,1,1-Trichloroe Carbon Tetrachlo Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichloro Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethen 1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ene ine ene (total) ine thane oride hane propene hane thane oropropene inone	11 11 11 11 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

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Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 VBLKBL Soil 5.0 g Low Cap.	Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	NA 11-19- 1.0 B5247 NA	Blank 90	1
<u>CAS No.</u>	Compound		<u>Units: µ</u> g/kg	L	Q	
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlorid Acetone Carbon Disulfide 1,1-Dichloroethen 1,2-Dichloroethen Chloroform 1,2-Dichloroethan 2-Butanone 1,1,1-Trichloroethan 2-Butanone 1,1,2-Dichloropethan 2-Butanone 1,2-Dichloroethan 2-Butanone 1,2-Dichloroethan 2-Butanone 1,2-Dichloropethan 2-Butanone 1,2-Dichloropethan 1,2-Dichloropethan 1,2-Dichloropethan 1,2-Dichloroethene Dibromochloromethan 1,1,2-Trichloroe Benzene trans-1,3-Dichlor Bromoform 4-Methyl-2-Pentan 2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachlor Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ne ne ne (total) ne thane ride hane propene hane thane ropropene none	$\begin{array}{c} 10\\ 10\\ 10\\ 10\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$		UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

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Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	Soil	Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	Method NA 11-20- 1.0 B5257 NA		2
<u>CAS No.</u>	Compound		Units: µg/kg		<u>Q</u>	
74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlorid Acetone Carbon Disulfide 1,1-Dichloroethei 1,2-Dichloroethei 1,2-Dichloroethei 2-Butanone 1,1,1-Trichloroethei Carbon Tetrachlor Vinyl Acetate Bromodichlorometh 1,2-Dichloroprop cis-1,3-Dichlorop Trichloroethene Dibromochlorometh 1,1,2-Trichloroethene Dibromochlorometh 1,1,2-Trichloroethene trans-1,3-Dichlor Bromoform 4-Methyl-2-Pentan 2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachlor Toluene Chlorobenzene Ethylbenzene Styrene Xylenes (total)	ne ne ne (total) ne thane ride nane ane propene nane thane ropropene none	10 10 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	·		

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 VBLKBN Soil 5.0 g Low Cap.	Client Sample Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: ctor:	Method Blank NA 11-21-90 1.0 B5275 NA	<b>3</b>
<u>CAS No.</u>	Compound		Units: µg/kg		
74-87-3 74-83-9 75-01-4 75-09-2 67-64-1 75-35-4 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10051-01-5 79-01-6 124-48-1 78-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 78-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chlori Acetone Carbon Disulfide 1,1-Dichloroethe 1,2-Dichloroethe Chloroform 1,2-Dichloroetha 2-Butanone 1,1,1-Trichloroe Carbon Tetrachlo Vinyl Acetate Bromodichloromet 1,2-Dichloroprop cis-1,3-Dichloro Trichloroethene Dibromochloromet 1,1,2-Trichloroe Benzene trans-1,3-Dichlo Bromoform 4-Methyl-2-Penta 2-Hexanone Tetrachloroethen 1,1,2,2-Tetrachl Toluene Chlorobenzene Ethylbenzene Styrene	ne ne (total) ne thane ride hane ane propene hane thane ropropene none	$\begin{array}{c} 10\\ 10\\ 10\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$		r
1330-20-7	Xylenes (total)	•	5	U	

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### VOLATILE SURROGATE RECOVERY REPORT

Level: Low

### Matrix: Soil

LAB SAMPLE NO.	S1 (TOL)#	\$2 (BFB)#	S3 (DCE)#		
2773-01	125 *	80	100		1
2773-02	109	79	97		0
2773-03	105	100	106		0
2773-04	102	98	99		0
2773-05	105	100	102		0
2773-06	102.	98	103		0
2773-01MS	127 *	80	108		1
2773-01MSD	128 *	80	113		1
VBLKBL	102	106	102		0
VBLKBM	94	94	92		0
VBLKBN	103	101	101	ļ	0
2773-07	101	93	96		0
2773-08	93	97	101.		0
VBLKBP	99	99	97 .	-	0
			. ·		
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					<u> </u>

	<u>Soil QC Limits</u>	<u>Water QC Limit</u>
S1 (TOL) ⊕Toluene-d8	(81-117)	(88-110)
S2 (BFB) = Bromofluorobenzene	(74–121)	(86–115)
S3 (DCE) = 1,2-Dichloroethane-d4	(70–121)	(76–114)

# Column to be used to flag recovery values
\* Values outside of contract required QC limits
D Surrogates diluted out

V2-0504.733

### VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

PNEL Sample ID.: Client Sample ID.: Date Sample Receive Level:	CAM	15-90		No.: Matrix: ample Analyzed:	68-900504 Soil 11-19/21-90
<u>Compound</u>	SPIKE ADDED <u>(µ</u> g/kg)	SAMPLE CONC. <u>(µ</u> g/kg)	CONC:	MS SOIL QC % LIMITS <u>REC<sup>±</sup> REC</u>	WATER QC LIMITS REC
l,l-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	64.9 64.9 64.9 64.9 64.9	ND ND 2.8 18.1 ND		90       59-172         77       62-137         95       66-142         86       59-139         90       60-133	61-145 71-120 76-127 76-125 75-130
<u>Compound</u>	SPIKE ADDED <u>(µ</u> q/kg)	MSD CONC. <u>(µq/kq)</u>	MSD % % <u>REC<sup>#</sup> RPD<sup>#</sup></u>	SOIL QC LIMITS <u>RPD</u> <u>REC</u>	WATER QC LIMITS <u>RPD REC</u>
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	64.9 64.9 64.9 64.9 34.9	60.3 48.9 64.7 73.1 57.9	93       3         75       3         95       0         85       1         89       1	22 59-172 24 62-137 21 66-142 21 59-139 21 60-133	14 61-145 14 71-120 11 76-127 13 76-125 13 75-130

# Column to be used to flag recovery and RPD values with an asterisk.

\* Values outside of QC limits

RPD: <u>0</u> out of <u>5</u> outside limits Spike Recovery: <u>0</u> out of <u>10</u> outside limits

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# VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 2773-07 Soil 5.0 g Low Cap.	Client Sampl Date Sample Date Sample Dilution Fac Lab File ID: % Moisture:	Received: Analyzed: tor:	B1 11-15-90 11-27-90 1.0 B5288 26
<u>CAS No.</u>	<u>Compound</u>		Units: µg/kg	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	,	7 5 7 7	ບ ວ ບ

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VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 2773-08 Soil 5.0 g Low Cap.	Client Sample ID: Date Sample Received: Date Sample Analyzed: Dilution Factor: Lab File ID: % Moisture: Concentra	B2 11-15-90 11-27-90 1.0 B5289 27
<u>CAS No.</u>	Compound	<u>Units: µ</u>	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	· 7 7 7 7 7	บ บ บ

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### VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.: PNEL Sample ID: Sample Matrix: Sample Vol.: Level: Column:	68-900504 VBLKBP Soil 5.0 g Low Cap.	Client Sample ID: Date Sample Received: Date Sample Analyzed: Dilution Factor: Lab File ID: % Moisture:	Method Blank 4 NA 11-27-90 1.0 B5287 NA
<u>CAS No.</u>	Compound	Concentrati Units: µg/k	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	5 5 5 5 5	U U U U

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Client Sample ID	B1	· B2	Blank .
PNEL Sample ID	2773-07	2773-08	2773-MB
Matrix	Soil	Soil	Soil
Date Received	11-15-90	11-15-90	NA
Date Extracted	11-19-90	11-19-90	11-19-90
Date Analyzed	11-21-90	11-21-90	11-21-90
Units of Measure	$\mu$ g/kg	µg∕kg	µg/kg

Client No:

68-900504

# <u>Compound</u>

Total	Petroleum Hydrocarbo	ns						
As:	Gasoline		11000	U	11000	U.	8300	U
As:	Diesel		11000	U	11000	U	8300	U
As:	Motor Oil		22000	U	580000	ŗ	8300	U

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### INORGANIC ANALYSIS DATA SHEET

PNEL Sample ID.:	2773-01	Client No.:	68-900504
Client Sample ID.:	CAM 1S	Sample Matrix:	Soil .
Date Sample Received:	11-15-90	% Solids Content:	79.8

<u>Analyte</u>		mg/kg <u>Concent</u>	<u>ration</u>	<b>Laborat</b> mg/kg <u>Concent</u>	ory Method <u>ration</u>	Blank <u>M</u>
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	4720 12.6 1640 1000 4160 567 19700	U	3.0 1.0 2.0 1.0 6.0 4.0 1.6	บ บ บ บ บ บ	P * P * P P P P

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# INORGANIC ANALYSIS DATA SHEET

PNEL Sample ID.:	2773-02	Client No.:	68-900504
Client Sample ID.:	CAM 2S	Sample Matrix:	Soil
Date Sample Received:	11-15-90	% Solids Content:	83.5

<u>Analyte</u>		mg/kg <u>Concent</u>	t <u>ration</u>	<b>Laborat</b> mg/kg <u>Concent</u>	ory Method I <u>ration</u>	37ank _ <u>M_</u>
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	1650 12.2 1280 615 3210 482 14700	. U	3.0 1.0 2.0 1.0 6.0 4.0 1.6	บ บ บ บ บ บ	P · · P · · P P P P P

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### INORGANIC ANALYSIS DATA SHEET

PNEL Sample ID.:	2773-03	Client No.:	68-900504
Client Sample ID.:	CAM 3S	Sample Matrix:	Soil
Date Sample Received:	11-15-90	% Solids Content:	92.6

<u>Analyte</u>		mg/kg <u>Concent</u>	<u>ration</u>	<b>Laborat</b> mg/kg <u>Concent</u>	ory Method ration	B]ank _ <u>M</u> _
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	370 9.4 1170 746 1000 935 446	U	3.0 1.0 2.0 1.0 6.0 4.0 1.6		р : Р · Р Р Р

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# INORGANIC ANALYSIS DATA SHEET

PNEL Sample ID.:	2773-04	Client No.:	. 68-900504
Client Sample ID.:	CAM 1D	Sample Matrix:	Soil
Date Sample Received:	11-15-90	% Solids Content:	88.4

<u>Analyte</u>		mg/kg <u>Concent</u>	<u>ration</u>	<b>Laborat</b> mg/kg <u>Concent</u>	o <b>ry Method</b> B ration	1ank _ <u>M</u>
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	45.1 1.1 61.6 122 73.7 48.3 241	U	3.0 1.0 2.0 1.0 6.0 4.0 1.6	U U U U U U U	P · P · P P P P

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# INORGANIC ANALYSIS DATA SHEET

PNEL Sample ID.:	2773-05	Client No.:	68-900504
Client Sample ID.:	CAM 2D	Sample Matrix:	Soil
Date Sample Received:	11-15-90	% Solids Content:	89.1

<u>Analyte</u>		mg/kg <u>Concentration</u>	Laboratory Method Blank mg/kg <u>Concentration</u>	M		
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	245 1.2 U 223 213 680 116 1550	3.0 U 1.0 U 2.0 U 1.0 U 6.0 U 4.0 U 1.6 U	Р : Р - Р Р Р		

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### INORGANIC ANALYSIS DATA SHEET

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PNEL Sample ID.:	2773-06	Client No.:	.68-900504
Client Sample ID.:	CAM 3D	Sample Matrix:	Soil
Date Sample Received:	11-15-90	% Solids Content:	90.2

<u>Analyte</u>	·	mg/kg <u>Concent</u>	<u>ration</u>	<b>Laborat</b> mg/kg <u>Concent</u>	ory Method <u>ration</u>	Blank	<u>_M_</u>	
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	259 1.1 39.3 667 686 32.7 2260	U	3.0 1.0 2.0 1.0 6.0 4.0 1.6			P P P P P	•

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# INORGANIC DUPLICATE ANALYSIS DATA SHEET

PNEL Sample ID.: Client Sample ID.: Date Sample Received:	2773-05 CAM 2D 11-15-90	Client Sample	No.: Matrix:	.68-900504 Soil
	mg/kg Duplicate	mg/kg Original	Relative	

<u>Analyte</u>		Sample <u>Concen</u>	<u>tration</u>	Sample <u>Concent</u>	<u>tration</u>	Percent <u>Difference</u>
Barium Cadmium Chromium Copper Lead Nickel Zinc	(Ba) (Cd) (Cr) (Cu) (Pb) (Ni) (Zn)	106 1.2 120 174 279 55.7 781	U	245 1.2 223 213 680 116 1550	U	79.2 NC 60.1 20.2 83.6 70.2 66.0

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# INORGANIC MATRIX SPIKE ANALYSIS DATA SHEET

PNEL Sample ID.: Client Sample ID.: Date Sample Received:	2773-05 CAM 2D 11-15-90	Client No.: Sample Matrix:	68-900504 Soil

<u>Analyte</u>		mg/kg Spike Sample <u>Concentration</u>	mg/kg Original Sample <u>Concentration</u>	mg/kg Spike <u>Level</u>	Percent <u>Recovery</u>
Barium	(Ba)	541	245	482	61.4
Cadmium	(Cd)	1.7	1.2 U	12.0	14.2
Chromium	(Cr)	167	223	48.2	NS
Copper	(Cu)	232	213	60.2	31.6
Lead	(Pb)	471	680	120	NS
Nickel	(Ni)	165	116	120	40.8
Zinc	(Zn)	922	1550	120	NS

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						Laboratory	y Contac	<u>Sw</u>	an-1	AZON	20-0	K-Da	mBatt	<u>tain</u>
		west Environmental Labora		1.		Send Lab F	Report To	Da	n.Ba	bian	u			<u> </u>
	Client Nar	ne Harding Laws	on. As	<u>50C.(</u>	HLA)									· · ·
	Client Numb	per			_									•
•	' Bill	TO HEA	<u> </u>		r	Date Report	Required	1211	PPK	TAT	(150	alend	ex day	5)
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		1325 4th Avenu Seattle, WA	98101		_ ·	Client Conta		-					<u>, povo, o</u>	
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	PNEL #	10	· · · · ·		_				1.5.0	. V			<u> </u>	ך ׂ -
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	Sample Number	Sample Location and Description	Date Collected	Timo Collected	Sample Matrix	Number of Containers	7040		Jer K	<u>0</u>	<u>`</u>		Comm	ents
$\mathcal{O}$ [	CAM 15	Surjace, near scrubber	11/15/90	0930	soil	2	X	$\times$					· · · · · · · · · · · · · · · · · · ·	
つこ	CAM 25	gurlace, edge scrubber	11/15/90	.0940	" 1	2	$\times$	$\left  \right\rangle$						
<i>03</i> .	CAM 35	Burlace, near blast room	[	0950		2	$\left  \right\rangle$	×				ļ	· · ·	
94	CAM 1D	6 in. decp, nr scrubber	u //	1030	<u> </u>	2	X	$\times$						
25	CAM 2D	Lin, deep, edge soulder		1045		2	$\mathbf{X}$	X					Į	
DL	CAM 3D	le in deep no blast room		1100	· · · ·	2	X	$\succ$				<b>_</b>		
0.7.	· BI ·····	WESTEND EXCAVATION		1000	· ) ·	2_		·	$\times$	X		. 	-	— <u>∸</u> - ,
()8	82	EASTEND EXCAUPTION	11/15/90	1100	soul,	2		·	$  \times$			· ·		
09	Joep B1	Ponk R.C.			Wate	2_						· · · · ·		
•														]
	Special Instruction	ns TWO WEEK TAT	·		I	Possible Haza	urds <u>pc</u>	tole	m	VOAS	hear	vym	itals	
	Was Preservative	Used? No 🔀 Yes 🗌 V	What Kind?					What An	alysis?					
	1. Relinquished I		Dato 11/15	<u>190</u> Time_	1400	Received By			<u></u>	<u>/</u> I	Dale		Time	<del>_</del> ;
	2. Relinquished I	By Michel Baker	'/	<u>90</u> Time_	150	Received By	j <u>Capi</u>	MO- (	.cokj	AVEL	, Date <u>//</u>	<u> 15/9</u>	Time _ <u>/6</u>	57)
	3. Rolinquished I	Ву	Date / /	Time _		Received By	y		_/	(	Date		Time	
	4. Relinquished I	Ву	Dato	Time_	• 	Received By	У			(	Date		Timo	

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