

**Dalton, Olmsted & Fuglevand, Inc.** *Environmental Consultants*

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NGV 27 1995

Department of Ecology  
Industrial Section

**MEMORANDUM**

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TO: Nadine Romero - Department of Ecology

FROM: Matthew Dalton - Dalton, Olmsted & Fuglevand, Inc.  
Stuart Triolo - Weyerhaeuser Company

DATE: November 22, 1995

SUBJECT: Results of Soil Sampling  
Remediation Areas RA10-2 and RA8-3  
Weyerhaeuser East Site, Everett, Washington

REF. NO: WEY-011 (soil.doc)

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This memorandum presents the results of the soil sampling completed in remediation areas RA10-2 and RA8-3 delineated in our earlier memoranda (DOF 1995a and 1995b). The purpose of the sampling was to collect data as follows:

- Area RA10-2 - To assess the extent of soil which may exceed 50 mg/kg PCBs; and
- Area RA8-3 - To assess the extent of soil which may exceed 100 mg/kg pentachlorophenol.

**SAMPLING AND ANALYSIS PROGRAM**

The samples were collected on October 3, 1995 by Matthew Dalton of Dalton, Olmsted and Fuglevand, Inc. Stuart Triolo (Weyerhaeuser), Nadine Romero (Ecology), and Paul Skyllingstad (Ecology) observed the sampling.

To facilitate sampling, shallow test pits were excavated, generally to the water table, using a backhoe provided by Olympus Environmental. A geologic log was prepared for each pit using ASTM D2488 as a general guide.

Soil samples were obtained from the sidewalls of the pits using individual stainless steel sampling spoons. The samples were placed in glass containers provided by the receiving laboratory. The samples were transported to North Creek Analytical of Bothell, Washington in chilled coolers using standard chain-of-custody procedures.

Stuart Triolo - Weyerhaeuser Company  
November 22, 1995

Soil samples from Area RA10-2 were analyzed for PCBs using EPA Method 8081. Soil samples collected from Area RA8-3 were analyzed for total petroleum hydrocarbons using Washington State Method WTPH-D(extended) and pentachlorophenol (EPA Method 8040). An acid wash/silica gel cleanup procedure was used to prepare the samples for analysis of petroleum hydrocarbons.

North Creek Analytical completed the analyses. The results are summarized in Tables 1 and 2. Laboratory data sheets are included as Attachment A.

## RESULTS OF SAMPLING

### *Area 10-2*

**Geologic Observations:** Seven test pits (TP10-2-1 to TP10-2-7) were excavated in the RA10-2 area (Figure 1). Excavation depths ranged between approximately 2-feet to 3-feet. Typically a surface layer of vegetation and wood debris 0.5-feet to 1-feet was found to overlie a brown to gray, fine to medium SAND. The water table was encountered at a depth of approximately 2-feet in most of the pits. Heavy timbers were encountered in several of the pits. An old water line (4" diameter metal pipe) was discovered at location TP10-2-6.

**PCB Analyses:** The RA10-2 area is thought to be the former site of a PCB containing electrical transformer. Soil samples were obtained from the top of the Sand deposits which underlie the vegetation/wood debris. A concentration of 87 mg/kg (Aroclor 1260) was measured in a previously collected soil sample (A10-05) by EMCON (1995). PCBs were not detected above a reporting limit of 0.05U mg/kg in 6 of the 7 samples collected as part of the current work (Table 1 and Figure 1). A PCB concentration of 0.063 mg/kg (also Aroclor 1260) was measured in a sample from location TP10-2-7.

### *Area 8-3*

**Geologic Observations:** Eight test pits (TP8-3-1 to TP8-3-8) were excavated in the RA8-3 area (Figures 2 to 5). Excavation depths ranged between approximately 4-feet to 5-feet. Typically paving materials (asphalt and subbase) 0.5-feet to 1-feet were found to overlie a 1-feet thick blackish layer composed of SAND with gravel which in turn overlies a brown, fine to medium SAND. At locations RA8-3-5 and -6 a gray CLAY was observed in the bottom of the pits at depths of between 4-feet and 5-feet. At several locations an oily-scum was observed to be present on the water table. The water table was encountered at a depth of approximately 4-feet in most of the pits.

**Soil Quality Analyses:** The RA8-3 area is thought to be the former site of a wood treating shed where apparently pentachlorophenol was used for sap stain prevention. Soil samples were obtained from the blackish sand layer (designated with an "A" in Table 2)

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November 22, 1995

and from the underlying brown sand layer (designated with a "B" in Table 2). Selected samples were analyzed for petroleum hydrocarbons (WTPH-D, extended) and pentachlorophenol. The results are summarized in Table 2. The results are also shown on Figures 2 to 5, along with the results of analyses completed by EMCON (1995).

## REFERENCES

DOF (Dalton, Olmsted & Fuglevand, Inc.), 1995a, Draft Technical Memorandum titled "Potential Remediation Areas", Weyerhaeuser East Site, Everett, Washington, August 9, 1995.

DOF (Dalton, Olmsted & Fuglevand, Inc.), 1995b, Draft Technical Memorandum titled "Remediation Alternatives and Estimated Costs", Weyerhaeuser East Site, Everett, Washington, November 1, 1995.

EMCON, 1995, Operable Unit Summary Report, Weyerhaeuser Everett East Site, March 17, 1995.

## CLOSING

The services described in this report were performed consistent with generally accepted professional consulting principals and practices. No other warranty, expressed or implied is made. These services were performed consistent with our agreement with Weyerhaeuser. This report is solely for the use and information of Weyerhaeuser unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when our services were performed and are intended only for the purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices or regulations subsequent to performance of our services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Dalton, Olmsted & Fuglevand, Inc.



Matthew G. Dalton  
Sr. Consulting Hydrogeologist

Attachments   Tables 1 and 2  
Figures 1 to 5  
Attachment A - Laboratory Data Sheets

**TABLE 1 - Summary of Soil Quality Data RA10-2**Weyerhaeuser East Site  
Everett, Washington

Location	Depth (ft)	PCBs (mg/kg)	Material Type
TP10-2-1	0.8-1.2	0.05	Brown to gray, fine to medium Sand
TP10-2-2	0.8-1.2	0.05	Brown to gray, fine to medium Sand
TP10-2-3	1.0-1.5	0.05	Brown to gray, fine to medium Sand
TP10-2-4	1.0-1.5	0.05	Brown to gray, fine to medium Sand
TP10-2-5	1.0-1.5	0.05	Brown to gray, fine to medium Sand
TP10-2-6	0.8-1.2	0.05	Brown to gray, fine to medium Sand
TP10-2-7	0.8-1.2	0.063	Brown to gray, fine to medium Sand

**TABLE 2 - Summary of Soil Quality Data - RA8-3**

Weyerhaeuser East Site  
Everett, Washington

Location	Sample No.	Depth (ft)	Total Petroleum Hydrocarbons (mg/kg)(1)		Pentachlorophenol (mg/kg)(2)	Material Type
			Diesel Range	Heavy Oil Range		
TP8-3-1	RA8-3-1A	1-2	600(D4)	920	11	Black, Sand w/ gravel & wood
TP8-3-1	RA8-3-1B	2.5-3	6000(D4)	6800	200	Brown, fine to medium Sand
TP8-3-2	RA8-3-2B	2.2-2.7	*	*	0.038	Brown, fine to medium Sand
TP8-3-3	RA8-3-3A	1.5-2.5	4200(D4)	8000	560	Black, Sand w/ gravel
TP8-3-3	RA8-3-3B	2.5-3.5	5900(D4)	16000	730	Brown, fine to medium Sand
TP8-3-4	RA8-3-4A	1-1.8	24000(D4)	26000	1400	Black, Sand w/ gravel
TP8-3-4	RA8-3-4B	1.8-2.3	5100(D4)	4100	440	Brown, fine to medium Sand
TP8-3-5	RA8-3-5B	1.3-2.3	<20	<50	0.081	Brown, fine to medium Sand
TP8-3-6	RA8-3-6A	0.9-1.3	*	*	0.89	Black, Sand w/ gravel
TP8-3-6	RA8-3-6B	1.3-2.3	<20	<50	0.057	Brown, fine to medium Sand
TP8-3-7	RA8-3-7B	1.4-2.4	<20	<50	0.058	Brown, fine to medium Sand
TP8-3-8	RA8-3-8B	1.5-2.5	<20	<50	<0.015	Brown, fine to medium Sand

Notes: < - Not detected at the indicated reporting limit

(1) - WTPH-DX with silica gel cleanup

(2) - EPA Method 8040

D4 - The analytical laboratory reports that the indicated samples are composed of a complex mixture of diesel range and heavy oil range hydrocarbons.

\* - Sample collected but not analyzed

# AREA 10

Location PCB Conc.	
A10-05	87 mg/kg
TP10-2-1	<0.05 mg/kg
TP10-2-2	<0.05 mg/kg
TP10-2-3	<0.05 mg/kg
TP10-2-4	<0.05 mg/kg
TP10-2-5	<0.05 mg/kg
TP10-2-6	<0.05 mg/kg
TP10-2-7	0.063 mg/kg

0 50

Scale in Feet  
(approximate)

## Legend

⊕ Soil Sample Location  
TP10-2-1 and number

## Former Crane Shed No. 3

### RA 10-2

A10-05  
TP10-2-1  
TP10-2-2 ⊕ TP10-2-3 ⊕ TP10-2-4 ⊕ TP10-2-5  
TP10-2-6 ⊕ TP10-2-7 ⊕

North

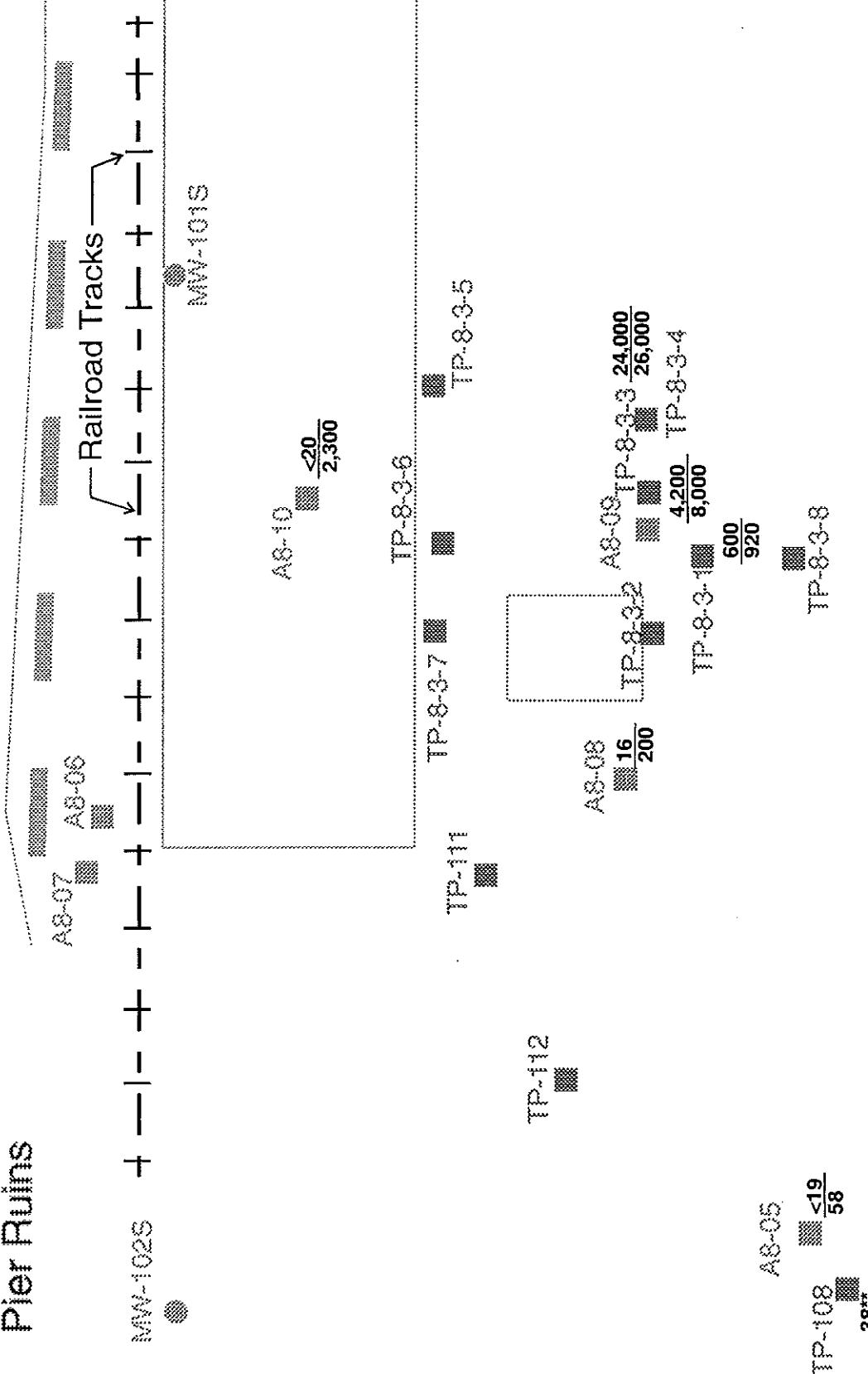
Weyerhaeuser East Site  
Everett, Washington

PCB Sampling Data  
Remediation Area RA10-2

WEY-011

FIGURE 1 November 1995  
Dalton, Olmsted & Fuglevand, Inc.

## Pier Ruins

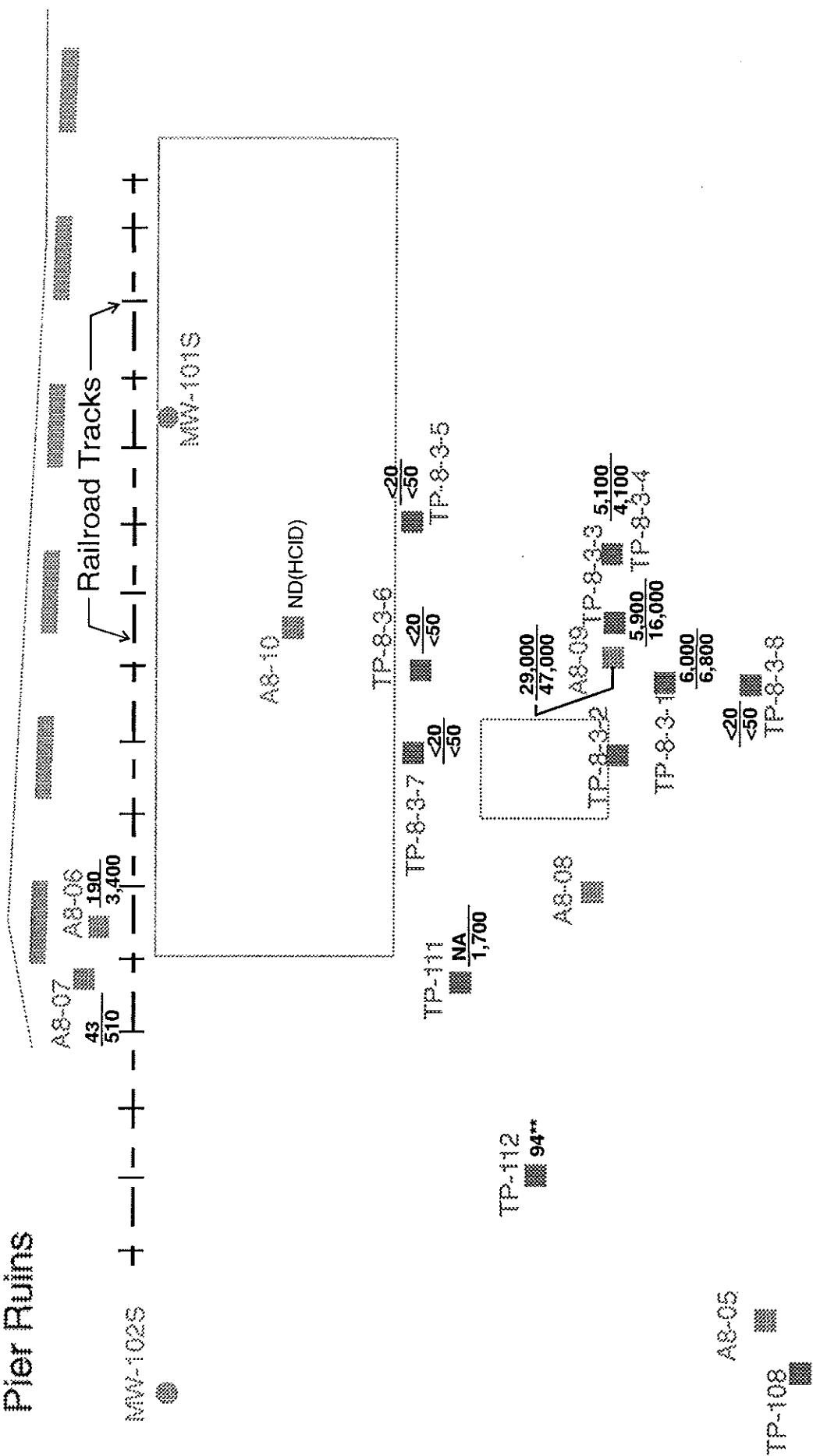


### Legend

- Sample Location and Number
  - $\frac{>20}{<50}$  Diesel Range Hydrocarbons (mg/kg)  
Heavy Oil Range Hydrocarbons (mg/kg)
  - ND - Not Detect
  - \*\* - Field Screening
- Scale in Feet  
0 5 10

Weyerhaeuser East Site  
Everett, Washington  
**TPH Concentrations  
In Blackish Layer  
(Depth 1 to 2 Feet BGS)**

## Pier Ruins



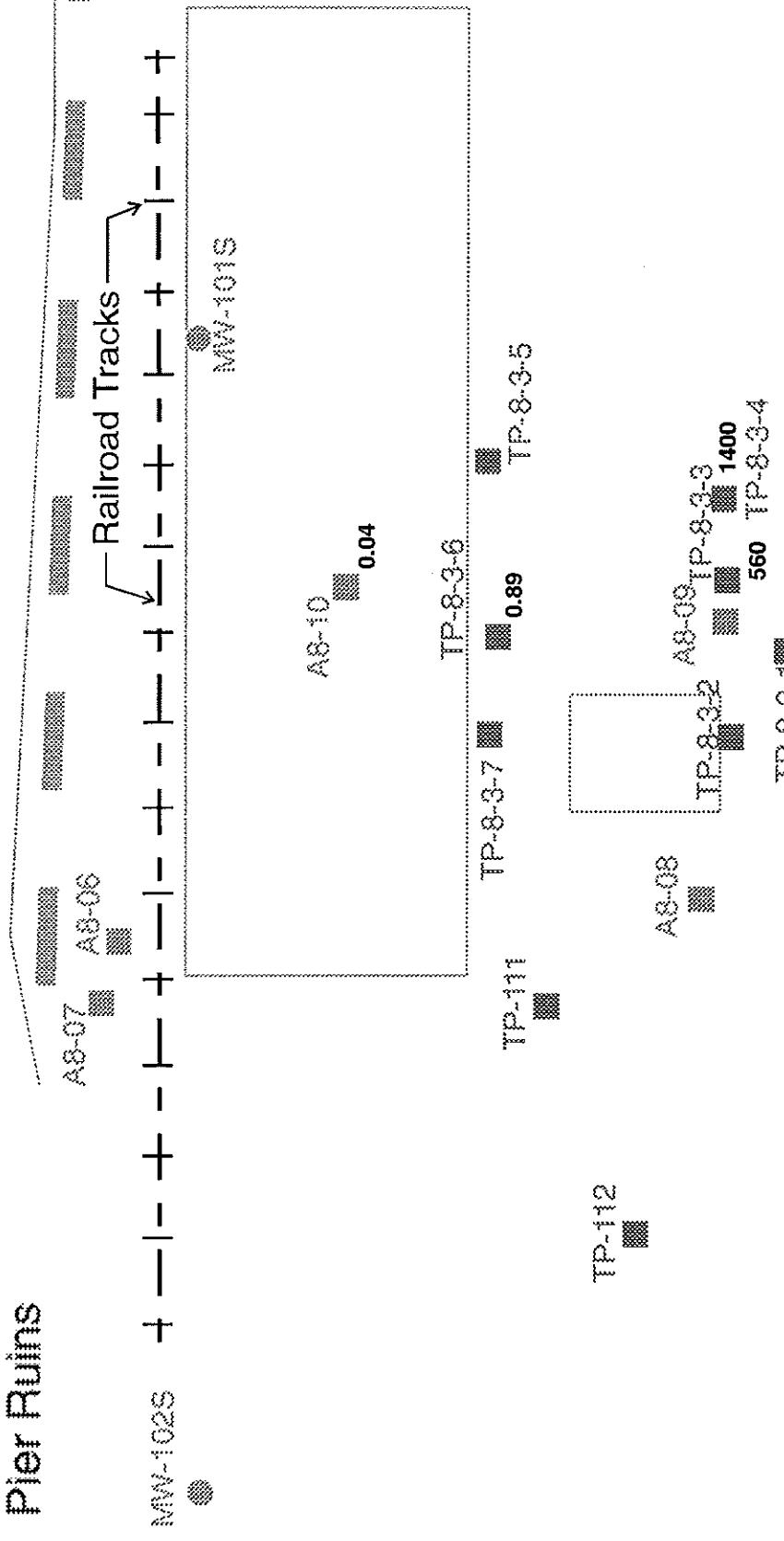
## Legend

■ Sample Location and Number  
 $\frac{>20}{<50}$  Diesel Range Hydrocarbons (mg/kg)  
 $\frac{<50}{<50}$  Heavy Oil Range Hydrocarbons (mg/kg)  
 ND - Not Detect  
 \*\* - Field Screening

0 5 10  
Scale in Feet

Weyerhaeuser East Site  
Everett, Washington  
**TPH Concentrations  
Below Blackish Layer  
(Depth 2 to 5 Feet BGS)**  
WEY-011 FIGURE 3 November 1995  
Dalton, Olmsted & Fuglevand, Inc.

## Pier Ruins



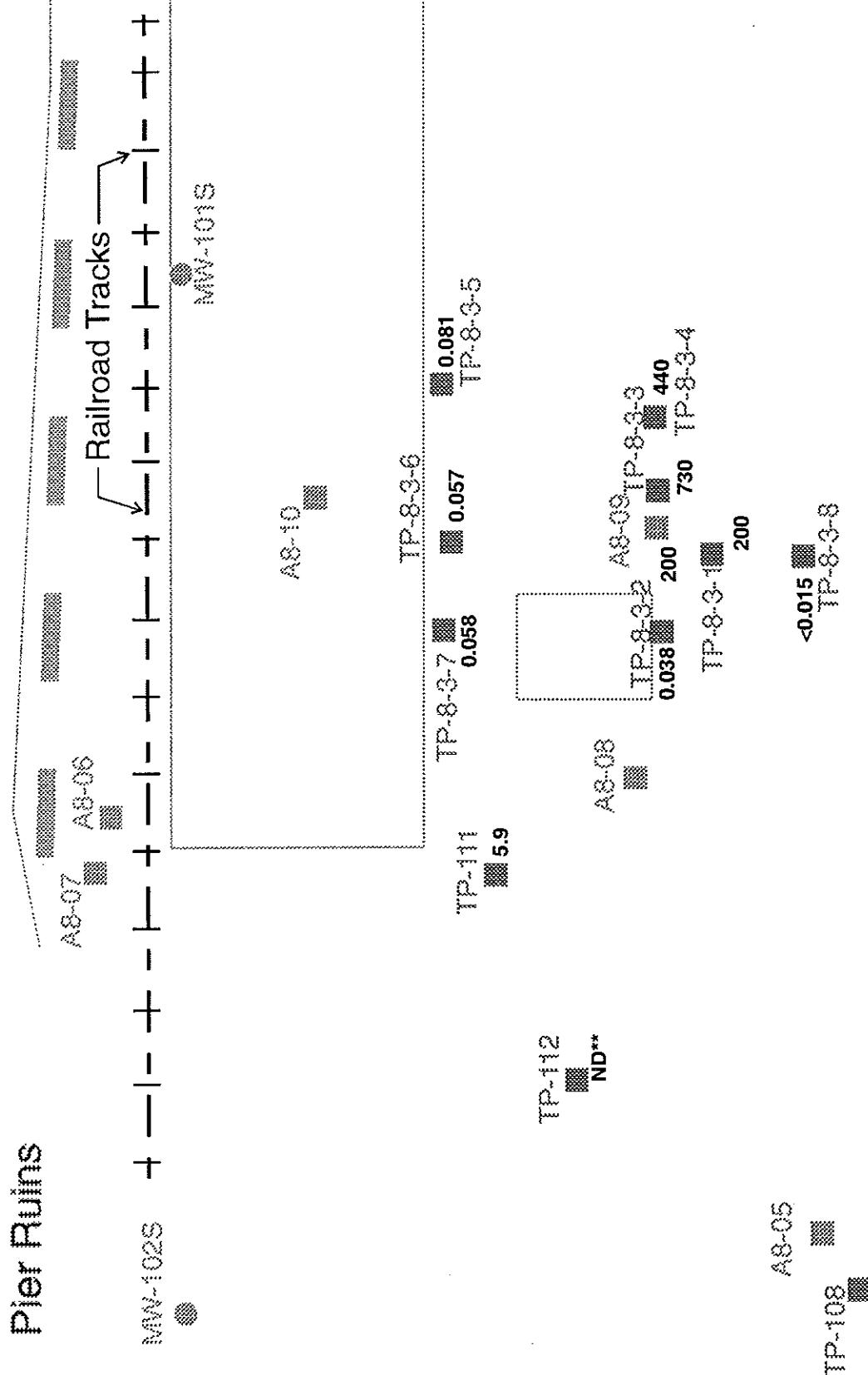
### Legend

- Sample Location and Number
  - 11 Pentachlorophenol (mg/kg)
  - ND - Not Detect
  - \*\* - Field Screening
- Scale in Feet  
0 5 10

Weyerhaeuser East Site  
Everett, Washington  
**Pentachlorophenol Concentrations  
In Blackfish Layer  
(Depth 1 to 2 Feet BGS)**

WEY-011 Dalton, Olmsted & Fuglevand, Inc.  
**FIGURE 4 November 1995**

## Pier Ruins



### Legend

- Sample Location and Number
  - 11 Pentachlorophenol Concentration (mg/kg)
  - ND - Not Detect
  - \*\* - Field Screening
- Scale in Feet  
0 5 10

Weyerhaeuser East Site  
Everett, Washington

Pentachlorophenol Concentrations  
Below Blackish Layer  
(Depth 2 to 5 Feet BGS)

**ATTACHMENT A**  
**LABORATORY DATA SHEETS**



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East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290  
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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Project Name: Client Project : #WEY-001-01	Weyerhaeuser East Site	Received: Oct 4, 1995 Reported: Nov 15, 1995
	NCA Project #: B510087		

### PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
B510087-01	TP10-2-1	Soil	10/3/95
B510087-02	TP10-2-2	Soil	10/3/95
B510087-03	TP10-2-3	Soil	10/3/95
B510087-04	TP10-2-4	Soil	10/3/95
B510087-05	TP10-2-5	Soil	10/3/95
B510087-06	TP10-2-6	Soil	10/3/95
B510087-07	TP10-2-7	Soil	10/3/95
B510087-08	RA8-3-1A	Soil	10/3/95
B510087-09	RA8-3-1B	Soil	10/3/95
B510087-10	RA8-3-2A	Soil	10/3/95
B510087-11	RA8-3-2B	Soil	10/3/95

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.

NORTH CREEK ANALYTICAL Inc.

A handwritten signature in black ink that appears to read "Laura Dutton".

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. Project Name: Weyerhaeuser East Site  
19017 120th Avenue NE, #107 Client Project : #WEY-001-01  
Bothell, WA 98011  
Attention: Matt Dalton NCA Project #: B510087  
Received: Oct 4, 1995  
Reported: Nov 15, 1995

### PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
B510087-12	RA8-3-3A	Soil	10/3/95
B510087-13	RA8-3-3B	Soil	10/3/95
B510087-14	RA8-3-4A	Soil	10/3/95
B510087-15	RA8-3-4B	Soil	10/3/95
B510087-16	RA8-3-5A	Soil	10/3/95
B510087-17	RA8-3-5B	Soil	10/3/95
B510087-18	RA8-3-6A	Soil	10/3/95
B510087-19	RA8-3-6B	Soil	10/3/95
B510087-20	RA8-3-7A	Soil	10/3/95
B510087-21	RA8-3-7B	Soil	10/3/95
B510087-22	RA8-3-8A	Soil	10/3/95

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Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. Project Name: Weyerhaeuser East Site  
19017 120th Avenue NE, #107 Client Project : #WEY-001-01  
Bothell, WA 98011  
Attention: Matt Dalton NCA Project #: B510087  
Received: Oct 4, 1995  
Reported: Nov 15, 1995

### PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
B510087-23	RA8-3-8B	Soil	10/3/95

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Project Manager



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Dalton, Olmsted & Fuglevand, Inc. Client Project ID: Weyerhaeuser East Site  
19017 120th Avenue NE, #107 Sample Matrix: Soil  
Bothell, WA 98011 Received: Oct 4, 1995  
Attention: Matt Dalton First Sample #: B510087-01 Reported: Oct 18, 1995

### TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
B510087-01	TP10-2-1	90	10
B510087-02	TP10-2-2	88	12
B510087-03	TP10-2-3	90	10
B510087-04	TP10-2-4	94	6.0
B510087-05	TP10-2-5	93	7.0
B510087-06	TP10-2-6	91	9.0
B510087-07	TP10-2-7	94	6.0
B510087-08	RA8-3-1A	87	13
B510087-09	RA8-3-1B	96	4.0
B510087-11	RA8-3-2B	96	4.0
B510087-12	RA8-3-3A	88	12

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.  
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

NORTH CREEK ANALYTICAL Inc.

*Laura Dutton*

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc.  
19017 120th Avenue NE, #107  
Bothell, WA 98011  
Attention: Matt Dalton

Client Project ID: Weyerhaeuser East Site  
Sample Matrix: Soil  
First Sample #: B510087-13

Received: Oct 4, 1995  
Reported: Oct 18, 1995

### TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
B510087-13	RA8-3-3B	94	6.0
B510087-14	RA8-3-4A	81	19
B510087-15	RA8-3-4B	96	4.0
B510087-17	RA8-3-5B	91	9.0
B510087-18	RA8-4-6A	94	6.0
B510087-19	RA8-4-6B	96	4.0
B510087-21	RA8-3-7B	97	3.0
B510087-23	RA8-3-8B	96	4.0

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.  
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site	Sampled: Oct 3, 1995
	Sample Matrix: Soil	Received: Oct 4, 1995
	Analysis Method: WTPH-D Extended	Extracted: Oct 10, 1995
	First Sample #: B510087-08	Analyzed: Oct 14-16, 1995
		Reported: Oct 18, 1995

### TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED w/SILICA GEL

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
B510087-08	RA8-3-1A	600 D-4	920	83
B510087-09	RA8-3-1B	6,000 D-4	6,800	Diluted Out
B510087-12	RA8-3-3A	4,200 D-4	8,000	Diluted Out
B510087-13	RA8-3-3B	5,900 D-4	16,000	Diluted Out
B510087-14	RA8-3-4A	24,000 D-4	26,000	Diluted Out
B510087-15	RA8-3-4B	5,100 D-4	4,100	Diluted Out
B510087-17	RA8-3-5B	N.D.	N.D.	72
B510087-19	RA8-3-6B	N.D.	N.D.	73
B510087-21	RA8-3-7B	N.D.	N.D.	69
B510087-23	RA8-3-8B	N.D.	N.D.	74

Reporting Limit:	20	50
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

*Laura Dutton*

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Project Manager



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## HYDROCARBON ANALYSIS FOOTNOTES

2/94, Rev. 3

### VOLATILE HYDROCARBONS - GASOLINE RANGE ORGANICS

- G 1 This sample appears to contain extractable diesel range organics.
- G 2 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
- G 3 The total hydrocarbon result in this sample is primarily due to an individual compound(s) eluting in the volatile hydrocarbon range. Identification and quantitation by EPA 8010, 8021 or 8240 is recommended.
- G 4 This sample contains compound(s) not identified as Benzene, Toluene, Ethyl benzene or Xylene.
- G 5 This sample appears to contain or be saturated with gasoline product.

### EXTRACTABLE HYDROCARBONS - DIESEL RANGE ORGANICS

- D 1 This sample appears to contain volatile gasoline range organics.
- D 2 The hydrocarbons present in this sample resemble heavy, non-resolvable oil range organics. Quantitation by TPH-Diesel Extended or TPH 418.1 is recommended.
- D 3 The hydrocarbon concentration result in this sample is partially due to an individual peak(s) eluting in the diesel / motor oil carbon range.
- D 4 The hydrocarbons present in this sample are a complex mixture of diesel range and heavy oil range organics.
- D 5 The hydrocarbon result shown is an estimated (greater than) value due to the high concentration. Reanalysis is being performed to yield a quantitative result. An amended report will follow.
- D 6 The sample chromatographic pattern does not resemble the fuel standard used for quantitation. A fuel fingerprint is advised.
- D 7 This sample appears to contain or be saturated with diesel product.

Oils and Lubricants

[-----]  
TPH 418.1

Diesel & Fuel Oils

[-----]  
Extractable Hydrocarbons (TPH-D)

Gasoline

[-----]  
Volatile Hydrocarbons (TPH-G)

### HYDROCARBON BOILING POINT RANGE

LOW      LOW TO MEDIUM      MEDIUM      MEDIUM TO HIGH      VERY HIGH

### CARBON RANGE:

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31+



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Dalton, Olmsted & Fuglevand, Inc.  
19017 120th Avenue NE, #107  
Bothell, WA 98011  
Attention: Matt Dalton

Client Project ID: Weyerhaeuser East Site  
Sample Matrix: Method Blank  
Analysis Method: WTPH-D Extended  
First Sample #: BLK101095

Extracted: Oct 10, 1995  
Analyzed: Oct 14-16, 1995  
Reported: Oct 18, 1995

### TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED w/SILICA GEL

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
BLK101095	Method Blank	N.D.	N.D.	70

Reporting Limit:	20	50
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2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

*Laura Dutton*

Laura Dutton  
Project Manager



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9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

Dalton, Olmsted & Fuglevand, Inc.  
19017 120th Avenue NE, #107  
Bothell, WA 98011  
Attention: Matt Dalton

Client Project ID: Weyerhaeuser East Site  
Sample Matrix: Soil  
Analysis Method: WTPH-D  
Units: mg/kg (ppm)

Analyst: T. Fitzgibbon

Extracted: Oct 10, 1995  
Analyzed: Oct 14-16, 1995  
Reported: Oct 18, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

### PRECISION ASSESSMENT Sample Duplicate

Diesel

Diesel Range  
Hydrocarbons

Spike Conc. Added:	68	Sample Number:	B510087-13
Spike Result:	65	Original Result:	5,900
% Recovery:	96	Duplicate Result:	6,100
Upper Control Limit %:	125	Relative % Difference:	3.3
Lower Control Limit %:	72	Maximum RPD:	42

NORTH CREEK ANALYTICAL Inc

*Laura Dutton*

Laura Dutton  
Project Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}}$	x 100
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2}$	x 100



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site Sample Descript: Soil, TP10-2-1 Analysis Method: EPA 8081 Sample Number: B510087-01	Sampled: Oct 3, 1995 Received: Oct 4, 1995 Extracted: Oct 6, 1995 Analyzed: Oct 11, 1995 Reported: Oct 18, 1995
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## POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 108  
Surrogate Recovery Control Limits are 36 - 121 %.  
The results reported above are on a dry weight basis.  
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

*Laura Dutton*

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site	Sampled: Oct 3, 1995
	Sample Descript: Soil, TP10-2-2	Received: Oct 4, 1995
	Analysis Method: EPA 8081	Extracted: Oct 6, 1995
	Sample Number: B510087-02	Analyzed: Oct 11, 1995
		Reported: Oct 18, 1995

### POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 93  
Surrogate Recovery Control Limits are 36 - 121 %.  
The results reported above are on a dry weight basis.  
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

*Laura Dutton*

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc.  
19017 120th Avenue NE, #107  
Bothell, WA 98011  
Attention: Matt Dalton

Client Project ID: Weyerhaeuser East Site  
Sample Descript: Soil, TP10-2-3  
Analysis Method: EPA 8081  
Sample Number: B510087-03

Sampled: Oct 3, 1995  
Received: Oct 4, 1995  
Extracted: Oct 6, 1995  
Analyzed: Oct 7, 1995  
Reported: Oct 18, 1995

## POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 83

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site Sample Descript: Soil, TP10-2-4 Analysis Method: EPA 8081 Sample Number: B510087-04	Sampled: Oct 3, 1995 Received: Oct 4, 1995 Extracted: Oct 6, 1995 Analyzed: Oct 11, 1995 Reported: Oct 18, 1995
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### POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 87

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytics reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site Sample Descript: Soil, TP10-2-5 Analysis Method: EPA 8081 Sample Number: B510087-05	Sampled: Oct 3, 1995 Received: Oct 4, 1995 Extracted: Oct 6, 1995 Analyzed: Oct 11, 1995 Reported: Oct 18, 1995
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### POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 67

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

A handwritten signature in black ink that reads "Laura Dutton".

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site Sample Descript: Soil, TP10-2-6 Analysis Method: EPA 8081 Sample Number: B510087-06	Sampled: Oct 3, 1995 Received: Oct 4, 1995 Extracted: Oct 6, 1995 Analyzed: Oct 11, 1995 Reported: Oct 18, 1995
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## POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 89

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

A handwritten signature in black ink that reads "Laura Dutton".

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site Sample Descript: Soil, TP10-2-7 Analysis Method: EPA 8081 Sample Number: B510087-07	Sampled: Oct 3, 1995 Received: Oct 4, 1995 Extracted: Oct 6, 1995 Analyzed: Oct 11, 1995 Reported: Oct 18, 1995
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### POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	63

Tetrachloro-m-xylene Surrogate Recovery, %: 89

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

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Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. Client Project ID: Weyerhaeuser East Site  
19017 120th Avenue NE, #107 Sample Descript: Method Blank  
Bothell, WA 98011 Analysis Method: EPA 8081  
Attention: Matt Dalton Sample Number: BLK100695

Extracted: Oct 6, 1995  
Analyzed: Oct 7, 1995  
Reported: Oct 18, 1995

### POLYCHLORINATED BIPHENYLS

Analyte	Reporting Limit µg/kg (ppb)	Sample Results µg/kg (ppb)
PCB 1016.....	50	.....
PCB 1221.....	50	.....
PCB 1232.....	50	.....
PCB 1242.....	50	.....
PCB 1248.....	50	.....
PCB 1254.....	50	.....
PCB 1260.....	50	.....

Tetrachloro-m-xylene Surrogate Recovery, %: 81

Surrogate Recovery Control Limits are 36 - 121 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

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Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc.  
19017 120th Avenue NE, #107  
Bothell, WA 98011  
Attention: Matt Dalton

Client Project ID: Weyerhaeuser East Site  
Sample Matrix: Soil  
Analysis Method: EPA 8080  
Units: µg/kg (ppb)  
QC Sample #: B510087-03

Analyst: N. Shen  
Extracted: Oct 6, 1995  
Analyzed: Oct 7, 1995  
Reported: Oct 18, 1995

### MATRIX SPIKE QUALITY CONTROL DATA REPORT

#### ANALYTE

Aroclor 1260

Sample Result: N.D.

Spike Conc.  
Added: 333

Spike  
Result: 306

Spike  
% Recovery: 92%

Spike Dup.  
Result: 309

Spike  
Duplicate  
% Recovery: 93%

Upper Control  
Limit %: 140

Lower Control  
Limit %: 42

Relative  
% Difference: 1.0%

Maximum  
RPD: 18

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*Laura Dutton*

Laura Dutton  
Project Manager

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}}$	x 100
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2}$	x 100



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site	Sampled: Oct 3, 1995
	Sample Matrix: Soil	Received: Oct 4, 1995
	Analysis Method: EPA 8040	Extracted: Oct 10, 1995
	First Sample #: B510087-08	Analyzed: Oct 26-27, 1995
		Reported: Oct 31, 1995

### LABORATORY ANALYSIS FOR: PENTACHLOROPHENOL

Sample Number	Sample Description	Reporting Limit µg/kg (ppb)	Sample Result µg/kg (ppb)
B510087-08	RA8-3-1A	150	11,000
B510087-09	RA8-3-1B	7,500	200,000
B510087-11	RA8-3-2B	10	38
B510087-12	RA8-3-3A	7,500	560,000
B510087-13	RA8-3-3B	7,500	730,000
B510087-14	RA8-3-4A	7,500	1,400,000
B510087-15	RA8-3-4B	7,500	440,000
B510087-17	RA8-3-5B	15	81
B510087-18	RA8-3-6A	10	890
B510087-19	RA8-3-6B	15	57
B510087-21	RA8-3-7B	15	58

Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Laura Dutton  
Project Manager



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Dalton, Olmsted & Fuglevand, Inc. 19017 120th Avenue NE, #107 Bothell, WA 98011 Attention: Matt Dalton	Client Project ID: Weyerhaeuser East Site	Sampled: Oct 3, 1995
	Sample Matrix: Soil	Received: Oct 4, 1995
	Analysis Method: EPA 8040	Extracted: Oct 10, 1995
	First Sample #: B510087-23	Analyzed: Oct 26-27, 1995
		Reported: Oct 31, 1995

### LABORATORY ANALYSIS FOR: PENTACHLOROPHENOL

Sample Number	Sample Description	Reporting Limit µg/kg (ppb)	Sample Result µg/kg (ppb)
B510087-23	RA8-3-BB	15	N.D.
BLK101095	Method Blank	15	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

A handwritten signature in black ink that reads "Laura Dutton".

Laura Dutton  
Project Manager

**NORTH  
CREEK  
ANALYTICAL**

**CHAIN OF CUSTODY REPORT**

**Work Order #:**

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992  
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 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CLIENT: Dalton, Dimsted & Bogard  
 ADDRESS: 19012 120th Ave NE  
 Suite 102  
 Bothell, WA 98021  
 PHONE: 425-6502 FAX: 425-7657

PROJECT NAME: Wegener Geest Inc.  
 PROJECT NUMBER: WGY-011-01  
 SAMPLED BY: MGD

REPORT TO: DOT  
 ATTENTION: Matt Ortloff  
 BILLING TO: DDF  
 P.O. NUMBER: 0100  
 NCA QUOTE #: 10/3/95  
 Analysis Request: 10/3/95  
 Project: 10/3/95  
 Specific procedure: Priority samples.

TURNAROUND REQUEST in Business Days \*  
 Organic & Inorganic Analyses  
 5      3      2      1  
 Fuels & Hydrocarbon Analyses  
 5      3      2      1  
 OTHER Specify:

\* Turnaround Requests less than standard may incur Rush Charges.

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CONTAINERS	COMMENTS & PRESERVATIVES USED
B510087-01	1.TP10-2-1	10/3/95- AM	X	5	/
-02	2.TP10-2-2		X	5	/
-03	3.TP10-2-3		X	5	/
-04	4.TP10-2-4		X	5	/
-05	5.TP10-2-5		X	5	/
-06	6.TP10-2-6		X	5	/
-07	7.TP10-2-7	↓	X	5	/
-08	8.RAB-3-10	10/3/95	X X	5	/
-09	9.RAB-3-16	"	X X	5	/
-10	10.RAB-3-20	"		5	/

RELINQUISHED BY: *Mark Hobbs*  
 PRINT NAME: *Dot Matt Ortloff*  
 FIRM: *DNNA INC*

RECEIVED BY: *Dana J. Hens*  
 PRINT NAME: *Dana J. Hens*  
 FIRM: *DNNA INC*

RECEIVED BY: *Jane Hens*  
 PRINT NAME: *Jane Hens*  
 FIRM: *DNNA INC*

ADDITIONAL REMARKS:

PAGE 1 OF 3

# NORTH CREEK ANALYTICAL

## CHAIN OF CUSTODY REPORT

### Work Order #:

CLIENT: DALTON, Olmsted; Argus		REPORT TO: DOF	TURNAROUND REQUEST in Business Days *	
ADDRESS: 19017 120th Ave NE Suite 107 Bothell WA 98011		ATTENTION: MATT DUNN	Organic & Inorganic Analyses	
PHONE: 425-650-2		BILLING TO: DOF	<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 3
PROJECT NAME: Weyerhaeuser East Site		P.O. NUMBER: Q100	<input type="checkbox"/> 2	<input type="checkbox"/> 1
PROJECT NUMBER: WSY-011-01		NCA QUOTE #: 800-545-3551	Fuels & Hydrocarbon Analyses	
SAMPLED BY: MGJ		Analysis Request:	<input type="checkbox"/> 5	<input type="checkbox"/> 3
		OTHER Specify:		
		* Turnaround Requests less than standard may incur Rush Charges.		
NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W. S. O)	# OF CONTAINERS
B510087-11	1. RA8-3-26	10/3/95 X X	5	1
-12	2. RA8-3-30	X X		1
-13	3. RA8-3-36	X X		1
-14	4. RA8-3-40	X X		1
-15	5. RA8-3-46	X X		1
-16	6. RA8-3-50	X X		1
-17	7. RA8-3-56	X X		1
-18	8. RA8-3-60	X X		1
-19	9. RA8-3-66	X X		1
-20	10. RA8-3-70	X X		1
RELINQUISHED BY: <i>Matt Dunn</i>		DATE: 10/4/95	RECEIVED BY: <i>Dana Heinz</i>	
PRINT NAME: MATT DUNN FIRM: DOF		TIME: 1:20	PRINT NAME: DANA HEINZ FIRM: NCA	
RELINQUISHED BY: <i>Matt Dunn</i>		DATE: 10/4/95	RECEIVED BY: <i>Dana Heinz</i>	
PRINT NAME: MATT DUNN FIRM: DOF		TIME: 1:20	PRINT NAME: DANA HEINZ FIRM: NCA	
				DATE: 10/4/95
				TIME: 1:320
				DATE: 10/4/95
				TIME: 2:03
				PAGE 2 OF 3
				ADDITIONAL REMARKS:

**NORTH  
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**CHAIN OF CUSTODY REPORT**

**Work Order #:**

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 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CLIENT: Dalton, Olmsted & Englewood  
 ADDRESS: 19012 120th Ave NE  
 Suite 107  
 Bothell WA 98011  
 PHONE: 425-6502 FAX: 425-2657  
 PROJECT NAME: Wey. East Site  
 PROJECT NUMBER: Wey-01-01  
 SAMPLED BY: M60

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	TURNAROUND REQUEST in Business Days *		
			MATRIX	# OF CONTAINERS (W, S, O)	COMMENTS & PRESERVATIVES USED
B50087-21	1. NAB-3-7b	10/3/95 4	X X	5	/
-22	2. NAB-3-8a			5	/
-23	3. NAB-3-8b	11	X X	5	/
	4.				
	5.				
	6.				
	7.				
	8.				
	9.				
	10.				

RELINQUISHED BY: *Molteno, Olmsted* DATE: 10/4/95  
 PRINT NAME: MATT OLTON FIRM: DOC TIME: 1:20

RECEIVED BY: *Dana Heinz* DATE: 10/4/95  
 PRINT NAME: DANNA HEINZ FIRM: NCA TIME: 1:32 0

RELINQUISHED BY:  
 PRINT NAME: FIRM:  
 ADDITIONAL REMARKS:

RECEIVED BY:  
 PRINT NAME: FIRM:  
 DATE:  
 TIME:

PRINT NAME: FIRM:  
 PAGE 3 OF 3  
 DATE:  
 TIME: