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437 N. Columbia Blvd. P.O. Box 11569 Portland, Oregon 97211 Office (503) 283-2151 FAX (503) 283-6388

## RECEIVED

**'93** JUL 16 P3:09

VEPARIMINE OF ECOLORS WIREGIONAL HERES

July 7, 1993

US West Business Resources, Inc. 1600 7th Ave., Room 1501 Seattle Washington 98191

Attn.: Randy Barr

RE: Status report on decommissioned 500 gallon underground storage tank at Capitol Peak Radio facility NE¼, SE¼, Sec.11, T17N, R4W Thurston County, Washington. DOE site identification number: 010431.

Dear Mr. Barr:

This report summarizes the soil sampling procedures, methods, observations, and analytical results of PEMCO's work to date on the decommissioning of one 500 gallon #1 diesel UST at the Capitol Peak facility.

The underground storage tank (UST) was decommissioned and removed from the ground on May 28, 1993. At this time, soil samples were collected as specified by the Washington Department of Ecology (DOE) UST decommissioning guidelines. Two of the soil samples collected contained elevated levels of diesel fuel. Following receipt of analytical results, Ms. Patty Martin of the DOE was notified of a below ground release from the UST. Contamination was found in the sample collected from the bottom of the excavation at a depth of seven feet. Additional contamination was found from one of the samples collected from the spoils pile. Refer to Table 1 for analytical results.

Table 1		Analytical Results of Soil								
		Testing								
<u>Sample</u>	<u>Date</u>	Depth of	<b>Analytical Tests</b>	[Note: ND = nondetectable						
<u>Number</u>	Collected	Sample		concentrations]						
			WTPH-HCID	TPH-D						
			gas, diesel, other							
#1 S-W Walls	5/28/1993	5 ft	ND, ND, ND							
#2 N-E Walls	5/28/1993	5 ft	ND, ND, ND							
#3 Bottom	5/28/1993	7 ft	ND, Pos, ND	850 ppm						
#4A Spoils	5/28/1993	N/A	ND, Pos, ND	170 ppm, 220 ppm (dup.)						
#5B Spoils	5/28/1993	N/A	ND, ND, ND							
#6C Spoils	5/28/1993	N/A	ND, ND, ND							

All analytical testing was performed by AmTest, Inc. 9205 SW Nimbus Ave, Beaverton Oregon.

## Sampling Protocol:

Soil samples were collected from undisturbed native materials surrounding the tank excavation using disposable vinyl gloves. Samples were packed into EPA-Approved sampling jars leaving as little head space as possible. All samples were placed immediately on ice and transported the laboratory accompanied by chain of custody documentation. Chain of custody and laboratory reports, which include data on analytical detection limits, are attached to this report.

#### Site Conditions:

The site is located at approximately 2659 feet above sea level and is used a communications relay facility. The UST excavation and spoils are enclosed within the site's peripheral fencing. Soils encountered in the excavation were mainly unconsolidated gravels. Groundwater was not encountered in the excavation. Refer to Site Map.

### UST System Data:

The UST contained #1 diesel fuel used to fuel a generator. Product was piped to the generator room within the building. The single wall, 500 gallon tank and all product and vent piping are made of steel.

The UST decommissioned at the Capitol Peak facility has been in use until immediately before decommissioning. All free product was pumped from the UST by US West personnel for use elsewhere. During cleaning operations one drum of sludge was removed from the UST.

## Residual Product, Sludge, and Tank Disposal:

One partial drum of residual diesel and sludge were recovered from the UST during cleaning operations. This sludge drum remains on site as of this writing awaiting transport and disposal.

The tank and piping are presently in PEMCO's yard in Portland awaiting disposal at a steel recycler.

#### **Conclusions:**

Washington DOE Method A Cleanup Standards for petroleum UST sites specifies that 200 ppm diesel is the maximum acceptable contaminant level that may remain in the soil at a UST site. PEMCO recommends performing remedial excavation at the site to remove contaminated soil from beneath the former position of the UST. Additional soil sampling will need to be performed to analytically evaluate the effectiveness of cleanup efforts. The contaminated soil should then be treated or disposed of at an approved landfill

Please forward a copy of this report to Patty Martin of the DOE after your review.

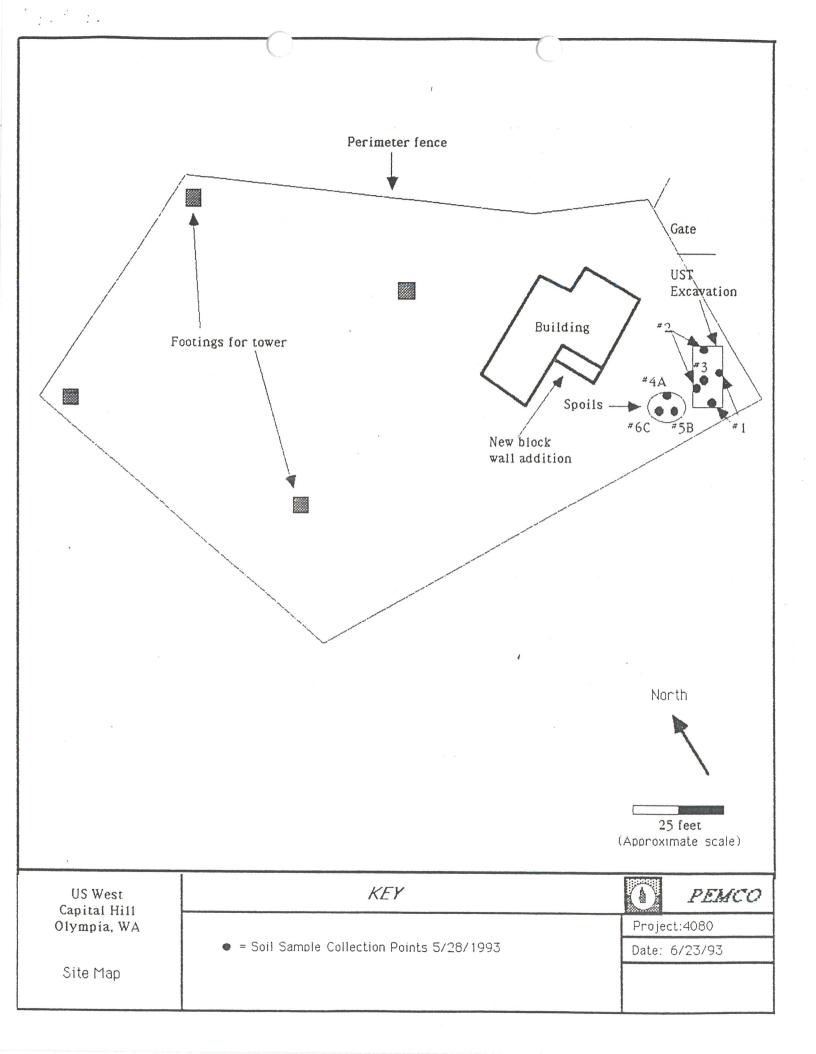
Washington Department of Ecology P. O. Box 47775 Olympia, WA 98504-7775 Attn.: Patty Martin

Sincerely,

**PEMCO** 

Kenneth Thiessen, Geologist for

Bill Knutson, P. E., Environmental Manager



PEMCO

## 437 H. COLUMBIA BLYD. P.O. BOX 11569 PORTLAND, OR 97217 (503) 203-2151

## CHAIN OF CUSTODY

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# PEMCO

437 N.COLUMBIA BLVD. P.O. BOX 11569 PORTLAND, OR 97217 (503) 283-2151

Approx. Scale

COMPANY (15 West	JOB NUMBER 4020
DATE 5/28/93	4
TYPE OF SOIL CONDITIONS: CLAY WATER TABLE  SAND FNCOUNTERED?  GRAVEL   ROCK	YES DEPTH
VISUAL CONTAMINATION? YES DESCRIPTION: _ NO X	
ODOR? NONE FLOATING PRODUCT  FAINT ODOR MODERATE ODOR STRONG ODOR WHICH SAMPLES HAD ODOR? DESCRIBE:	I? YES NO
Site Sketch with Sample Loca (show streets, tank farm, islands, building blooms)	

AmTestine.

Professional Analytical Services

92058.W.NimbusAve.

Tel:503 626 7424 Fax:503 643 1460

Seaverton, OR 57006

Data Recaived: 6/1/93 Date Analyzed: 8/4/93 Data Reported: 6/7/93 Job Number: 15207-12

Page 1 of 2

C L Bill Knutson 1 PEMCO E P.O. Box 11589 N Portland OR 97211

> Project Number - 4080 Project - US West, Olympia Sample Type - Soil

ANALYSIS REPORT

Washington Methods Analysis - WTPH-HCID

Lab Number	Client Identification				
		Gasoline	Diesel	Other*	Surrogate** Recovery %
15207	#1 S-W Walls	ND	ND	ND	64
15208	#2 N-E Walls	ND	ND	ND	73
15209	#3 Bottom Canter	ND	Positive	ND	57
15210	#4A Stockplie	ND	Positive	ND	74
15211	#5B Stockpile	ND	ND	ND	58
15212	#6C Stockpile	ND	ND	ND	56
Lab Blank	6/3/93	ND	ND	ND	50

ND = None Detected

Detection Limits: Gasolina - 20 mg/kg; Diesei - 50 mg/kg: Other\* - 100 mg/kg

\*Higher boiling petroleum products

\*\*p-terphenyl

Results are reported on a "dry weight" basis

Reported By

QA Chack

Laboratory Manager

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AmTestine.

Professional Analytical Services

92055.W. NimbusAve. Beaverton, OR 97005

Tel:503 626 7424 Fax: 503 643 1460

Date Received: 6/1/93

Date Analyzed: 6/14/93

Date Reported: 6/16/93 Job Number: 15207-12

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C L Bill Knutson I PEMCO E P.O. Box 11569 N Portland OR 97211

> Project Number - 4080 Project - US West, Olympia Sample Type - Soil

**ANALYSIS REPORT** 

Washington Methods Analysis - WTPH-D

	•				
Lab Number	Client Identification	Results mg/	kg (ppm)		
		Diesei	Surrogate*		
			Recovery %		
15209	#3 Bottom Center	850	142		
15210	#4-A Stockpile	170	99		
15210-Dup	#4-A Stockpile	220	109		
Lab Blank	6/14/93	ND	98		
	1				

Detection Limit - 10 mg/kg

\*p-terphenyl

Results are reported on a "dry weight" basis

ND - None Detected

Reported By

QA Check

Laboratory Manager