



**UNDERGROUND STORAGE TANK  
SITE CHARACTERIZATION  
AND  
SOIL CONTAMINATED SOIL  
REMEDIAATION REPORT**

ENGINEERING

SEP 08 1998

NW 7316  
U 5204

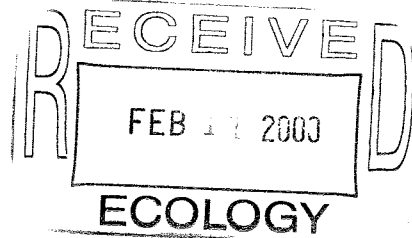
Bellevue Property  
Located at:

1035 116<sup>th</sup> Avenue NE  
Bellevue, Washington

April 27, 1998

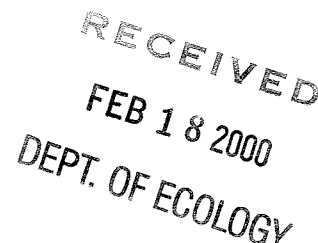
Prepared For:

**Aspen Environmental**  
P.O. Box 318  
Mukilteo, Washington 98275



Prepared By:

**Creative Environmental Technologies, Inc.**  
PO Box 1803  
Tacoma, Washington 98401-1803  
(253) 627-3347



048-2-Aspen-Overlake Hospital-Site Characterization Report.wpd

## **Introduction**

Creative Environmental Technologies, Inc. was retained by Aspen Environmental to complete a hydrocarbon contaminated soil site characterization and closure at 1035 116<sup>th</sup> Avenue NE, Bellevue, Washington. In a previous sampling event, Aspen Environmental identified hydrocarbon contamination in sub-surface soils following the removal of a diesel underground storage tank (UST). CETI was then hired to delineate and characterize the contaminated area.

## **Excavation and Removal of Underground Storage Tank**

CETI was not present during the excavation and removal of the UST. According to Scott Waldal of Aspen Environmental, the UST was in poor condition. His inspection of the UST revealed several holes ranging in size from 1/4" to 1". The UST was removed from the excavation, the excavation was lined with 10 mil plastic and backfilled due the amount of traffic in the area.

## **Contamination Delineation / Site Characterization**

CETI performed on site analysis of the soils during the excavation process using an Petroflag Hydrocarbon Analyzer calibrated for heating oil. Soil samples were taken from the north, south, east and west side walls and from the bottom of the excavation from which the UST was removed. Soil samples were analyzed on-site to determine the extent of remedial action.

## **Contaminated Soil Removal**

On April 14, 1998, Aspen Environmental excavated the contaminated soil from the UST excavation. The contaminated soil was excavated until there was no visual, olfactory or analytical evidence of contamination. Field analysis using a Petroflag Hydrocarbon Analyzer assisted in the delineation between the contaminated and clean soil. Thirty-two tons of contaminated soil was removed from the excavation. The final excavation depth was 10.5 feet.

The contaminated soil was transported and dispose of at CSR, a state licensed hydrocarbon contaminated soil disposal facility. Following the removal of the contaminated soil the excavation was backfilled with pit run material.

## **Soil Sampling**

The side walls had been sampled during the UST removal, prior to the remedial activities.

The analysis indicated the side walls of the excavation were free of hydrocarbon contamination. The samples from the bottom of the excavation indicated hydrocarbon contamination at 2,100 ppm. Soil samples were collected from the north excavation bottom and south excavation bottom. The geological conditions encountered in the excavation consisted of compact silt with light sand, medium to light half inch minus gravels, brown to gray in color. Collection depths were minus seven feet on the side walls and minus eight feet on the excavation bottom. A soil sample was collected from the contaminated soil for disposal purposes.

Each soil sample was collected from the excavation using a trackhoe bucket. Select soil was removed from the bucket using a stainless steel sampling spoon and placed in a EPA approved 8 oz glass sample collection jar with a Teflon™ lined lid. All samples were stored in a cooler at 40° F. to maintain and preserve the integrity of the sample until delivered to the laboratory for analysis.

The soil samples were submitted to CCI Analytical Laboratories, Inc. for analysis on April 14, 1998. Analysis performed was for Total Petroleum Hydrocarbons-Diesel (TPH-D) since all historical information acquired points to only diesel being stored in the UST.

### Analytical Results

Washington state law WAC 173-340-745 Method A sets an action level (maximum allowable limit) of 200 ppm (mg/kg) for soil and 1 ppm (mg/liter) water. CETI submitted the soil samples and requested the laboratory composite the samples and analyze the composited material. If levels in the composited material exceeded the Method A standard, the samples would be analyzed discreetly. Analysis for WTPH-Diesel on the composited soil samples did not detect any petroleum hydrocarbon concentrations at or above the action level.

Soil Analysis  
Diesel UST Excavation  
Method: WTPH-Diesel

Sample ID	Sample Location	WTPH-Diesel	Action Level
S1N & S2S	North & South Bottom	ND(<25) ppm	200 ppm

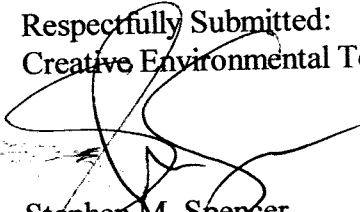
Analytical results for samples taken in UST excavation April 14, 1998

## Conclusions

Based on the results of the laboratory soil analysis, on site soil screening and on site observations, it is CETI's opinion the subsurface soils in the UST excavation are free of contamination by petroleum hydrocarbons. The UST excavation revealed no visible, olfactory or analytical evidence of contamination. CETI was not present during the initial soil sampling on the side walls of the UST excavation, however we have full confidence in the soil samples and the sample collector.

Creative Environmental Technologies, Inc. extends its appreciation for the opportunity to provide environmental services on this project. If there are any questions regarding this report please do not hesitate to contact us.

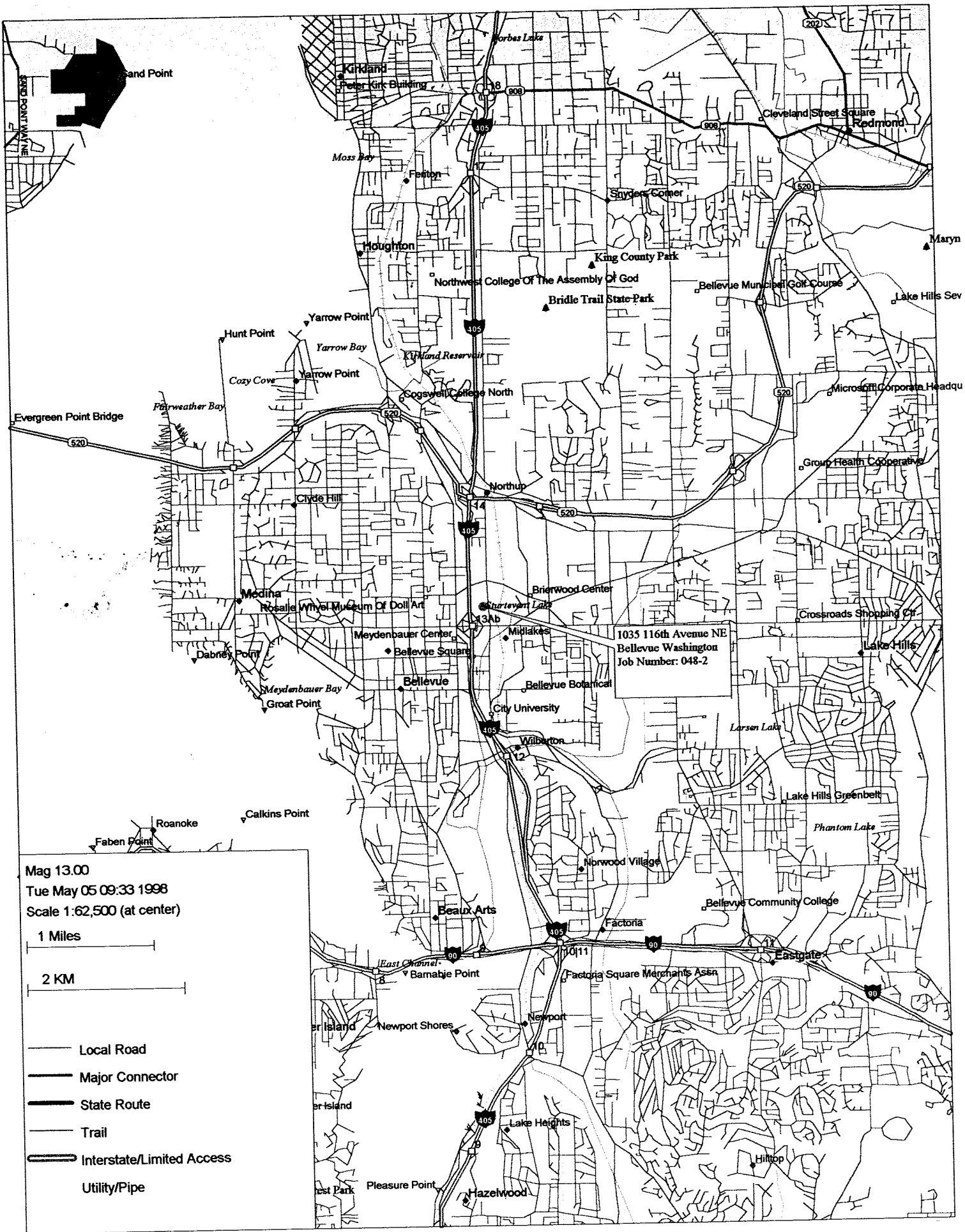
Respectfully Submitted:  
Creative Environmental Technologies, Inc.



Stephen M. Spencer  
WDOE Certified Site Assessor

## **Drawings, Photographs and Figures**

048-2-Aspen-Overlake Hospital-Site Characterization Report.wpd



Building

Densely  
Vegetated  
Area

NS-32098

WS-32098

E 32098

Asphalt  
Parking  
Area

Asphalt Alley Way

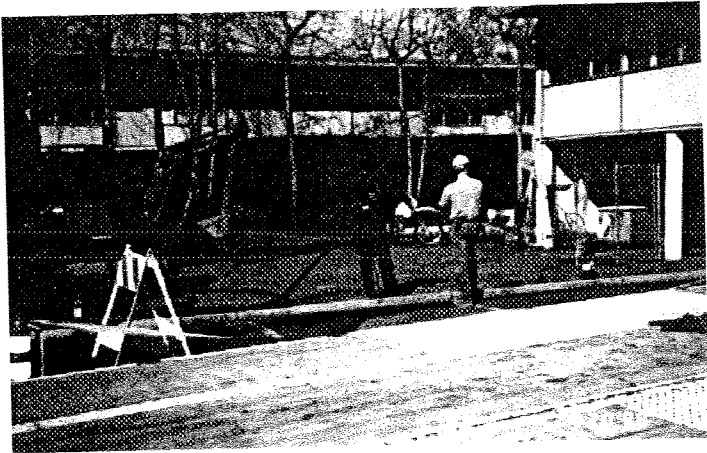


Not To Scale

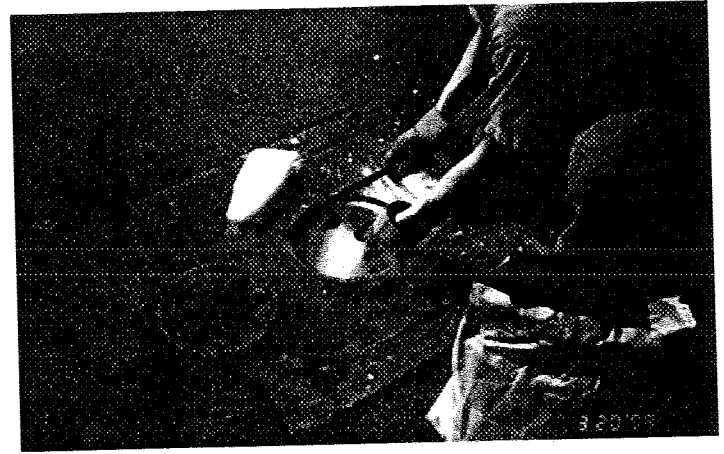
Sample Location Point



Site Map  
UST Site Characterization and Remediation  
1035 116th Avenue NE  
Project Number 048-2



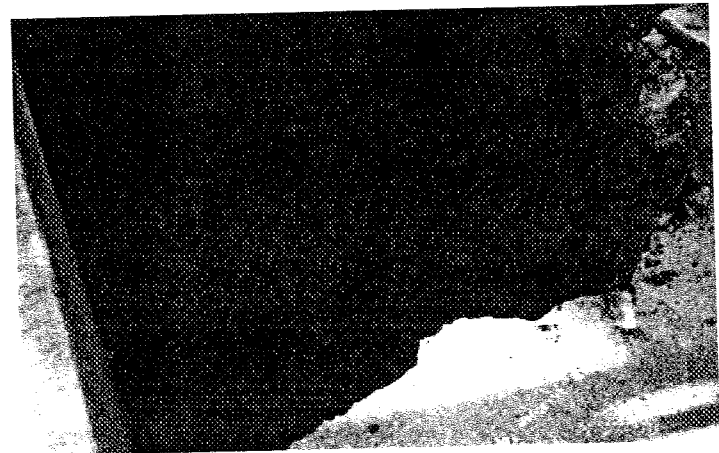
Pumping The Contents Of Diesel UST



Inserting Dry Ice In UST



Excavation And Removal Of Diesel UST



UST Excavation

Site Photographs  
UST Site Characterization and Remediation  
1035 116th Avenue NE  
Project Number: 048-2

## **Analytical Results, Permits and Notifications**



CCI Analytical Laboratories, Inc.  
 3229 Pine Street  
 Everett, WA 98201  
 Phone (425) 258-4548  
 (206) 292-9059 Seattle  
 (425) 259-6289 Fax

# Chain Of Custody / Laboratory Analysis Request

CCI Job# (Laboratory Use Only)

**804055**

Date 4-14 Page 1 Of 1

PROJECT ID: OVERLAKE 9804204  
 REPORT TO COMPANY: ASPEN / CETI  
 PROJECT MANAGER: Scott Walden  
 ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 INVOICE TO COMPANY: ASPEN  
 ATTENTION: Scott Walden  
 ADDRESS: \_\_\_\_\_  
 P.O. NUMBER: 9804204 CCI QUOTE: \_\_\_\_\_

ANALYSIS REQUESTED										OTHER (Specify)											
WTPH-3	WTPH-2	WTPH-418.1	BTEX	WTPH-HCID	EPA 8020	EPA 8010	EPA 8240	EPA 8270	EPA 8080	Metals Priority Pollutant	Metals Other (Specify)	TCLP Metals	PCB only	RCRA	TAL	Hep	Semi-Vol	Pest	Help	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. <u>S1-N-41498</u>	<u>4/14</u>	<u>11:15</u>	<u>Soil</u>	
2. <u>S2-S-41498</u>	<u>4/14</u>	<u>11:15</u>	<u>Soil</u>	
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Composit

**SPECIAL INSTRUCTIONS**

SIGNATURES (Name, Company, Date, and Time):

1. Relinquished By: [Signature] CETI 4/14/98  
 Received By: [Signature] 4/14/98 12:05 PM

2. Relinquished By: [Signature] CCI 41598  
 Received By: [Signature] 41598 15:10

TURNAROUND REQUESTED in Business Days\*

Organic, Metals & Inorganic Analysis

Standard:  10  5  3  2  1  Same Day

Fuels & Hydrocarbon Analysis

Standard:  5  3  1  Same Day

OTHER:

Specify: Composit and  
Perm.

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



CCI  
ANALYTICAL  
LABORATORIES, INC.

**CERTIFICATE OF ANALYSIS**

CLIENT: ASPEN ENVIRONMENTAL, LTD  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 4/21/98  
CCIL JOB #: 804055  
CCIL SAMPLE #: 1  
DATE RECEIVED: 4/15/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: OVERLAKE 9804206  
CLIENT SAMPLE ID: COMPOSITE OF S1-N-41498 AND S2-S-41498 4/14/98

**DATA RESULTS**

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
• TPH-DIESEL	WTPH-D	ND(<25)	MG/KG	200MG/KG	4/21/98	AMR

\* "ND" INDICATES ANALYTE 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. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CRJ



CCI  
ANALYTICAL  
LABORATORIES, INC.

**CERTIFICATE OF ANALYSIS**

CLIENT: ASPEN ENVIRONMENTAL, LTD  
P.O. BOX 318  
MUKILTEO, WA 98275

DATE: 4/21/98  
CCIL JOB #: 804055

DATE RECEIVED: 4/15/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: SCOTT WALDAL

CLIENT PROJECT ID: OVERLAKE 9804206

**QUALITY CONTROL RESULTS**

CCIL SAMPLE ID	SURROGATE RECOVERY		% RECV
	ANALYTE	SUR ID	
804055-01	WTPH-D	C25	58

APPROVED BY: CRJ







January 31, 2000

Jennifer Taylor  
Department of Licensing  
UST Unit  
PO Box 47600  
Olympia, WA.  
98504

Jennifer,

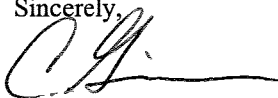
Please find the attached documents that were given to me after the closure of the 500-gallon underground storage tank that was removed from the Overlake Hospital Medical Center campus back in April 1998. This tank was designated as Tank III. Our UBI# is 179009836.

Please contact me at (425) 688-5940 or via email at [cgiven@overlakehospital.org](mailto:cgiven@overlakehospital.org) if you have any questions or need more information. Incidentally, the contractor that removed the tank was Aspen Environmental in Mukilteo, WA.

I apologize if we did not follow the proper procedure when this was closed, I assumed that Aspen would have done that, however, they probably assumed I would.

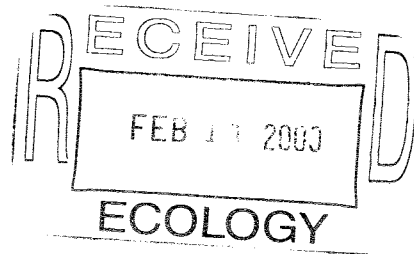
Thank you for your help with this.

Sincerely,



Cary Given  
Director of Engineering

encl.



RECEIVED  
FEB 18 2000  
DEPT. OF ECOLOGY



SITE # 2316

Technical Assistance Visit

Notice of Correction

The Department of Ecology is responsible for overseeing environmental laws that protect human health and the environment in Washington state. During this visit, Ecology observed the violation(s) recorded below. Listed with each are the steps required to correct the violation and the dates by which they must be completed.

RCW 90.76, WAC 173-360-310

Failure to upgrade an existing U.S.T system by the DECEMBER 1998 DEADLINE

Ecology will DEFER enforcement for the operation of the UST and will also defer enforcement for the DELIVERY of PRODUCT to the UST. All UST Reg. must be followed DURING this time including maintaining POLLUTION LIABILITY Insurance. Overlake Hospital will have the UST fully UPGRADED by June 20th.

Dist = Olsen SW 1 Seattle -

If there are good reasons why you cannot complete the corrections by the date(s) shown, please submit a written request for an extension to the Ecology contact person listed below by \_\_\_\_\_ (date). Include an explanation of why the extension is needed, an account of the steps you've already taken, and a description of the remaining actions planned to complete the corrections.

You will be notified if an extension will be granted prior to the correction dates noted above.

For further technical assistance to help you complete these corrections, call the Ecology contact at the number listed below.

Department of Ecology Contact

On-Site Contact Information

Name DICK STOREY
Region (address on back) N.W.R. 0
Phone 425-649-7219
Fax " " " " 7098
Signature
Date/Time

Name CARY GIVON
Title DIRECTOR OF ENGINEERING
Address Overlake Hospital Med Center
Phone (425) 688-5940
Signature
(Acknowledges Receipt)

- Photos Taken, Samples Collected, Samples Split, Tech. Assist. Materials Provided, Ecology Enforcement Authority Explained, Copy of Notice Given to Facility Contact

Ecology is an Equal Opportunity and Affirmative Action employer. If you have special accommodation needs, contact the Ecology regional office for your county (phone numbers listed on back).

## Department of Ecology Regional Offices

### **EASTERN REGION**

(Serving Adams, Asotin, Columbia,  
Ferry, Franklin, Garfield, Grant,  
Lincoln, Pend Oreille, Spokane,  
Stevens, Walla Walla, Whitman counties)

N. 4601 Monroe, Suite 202  
Spokane, WA 99205-1295

(509) 456-2926 (voice)  
(509) 458-2055 (TDD)

### **CENTRAL REGION**

(Serving Benton, Chelan, Douglas,  
Kittitas, Klickitat, Okanogan, Yakima  
counties)

15 West Yakima Ave., Suite 200  
Yakima, WA 98902-3407

(509) 575-2490 (voice)  
(509) 454-7673 (TDD)

### **NORTHWEST REGION**

(Serving Island, King, Kitsap, San Juan,  
Skagit, Snohomish, Whatcom counties)

3190 - 160th SE  
Bellevue, WA 98008

(206) 649-7000 (voice)  
(206) 649-4259 (TDD)

### **SOUTHWEST REGION**

(Serving Clallam, Clark, Cowlitz,  
Grays Harbor, Jefferson, Lewis,  
Mason, Pacific, Pierce, Skamania,  
Thurston, Wahkiakum counties)

P.O. Box 47775  
Olympia, WA 98504-7775

(360) 407-6300 (voice)  
(360) 407-6306 (TDD)

### **HEADQUARTERS OFFICE**

P.O. Box 47600  
Olympia, WA 98504-7600

(360) 407-6000 (voice)  
(360) 407-6006 (TDD)

DS



# UNDERGROUND STORAGE TANK 30 DAY NOTICE

See back of form for instructions  
Please  the appropriate box

Intent to Install

Intent to Close

Both

NW For Office Use Only		LS
Owner #	U5204	
Site #	7316	

**SITE INFORMATION:**

Site ID Number (on invoice or available from Ecology if the tank is registered): 7316

Site/Business Name: Overlake Hospital

Site Address: 1035 116th Avenue NE Owner/Operator Telephone: (425) 688-5943

Bellevue WA 98004  
City State ZIP-Code

**TANK INFORMATION: TANKS TO BE CLOSED**

This section to be filled out ONLY if tanks are being removed

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date tank last used	Is there product in the tank? (yes/no)	If no, date tank was pumped
V		20,000	Diesel	Current	Yes	

**TANKS TO BE INSTALLED**

This section to be filled out ONLY if tanks are being installed

Tank ID	Approx. Install Date
VI	May 1998

DECEIVED  
APR 07 1998  
ECOLOGY

**TANK INSTALLATION TO BE PERFORMED BY (if known):** This section to be filled out ONLY if tanks are being installed

Service Provider: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_  
Street P.O. Box  
City State ZIP-Code

**TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):** This section to be filled out ONLY if tanks are being removed

Service Provider: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_  
Street P.O. Box  
City State ZIP-Code

This form will be returned to this address

UST OWNER/ OPERATOR OVER Lake Hospital Medical Center  
ATTN: MIKE TRINWITH - Engineering Dept.

MAILING ADDRESS 1035 116th AVE NE  
Street  
Bellevue WA 98004  
City State ZIP-Code

**TEMPORARY PERMIT  
VALID UNTIL  
JUL -7 1998**

Once validated by Ecology, this form serves as your temporary permit for the tanks listed above.