

HOME SERVICE OIL CO. HEATING & COOLING

1710 COMMERCIAL ST. N.E. • SALEM, OREGON 97303 • (503) 585-7000 • Fax (503) 581-2790

November 28, 2000

Oregon Underground Storage Tank Section
Department of Environmental Quality
Northwestern Region Office
2020 SW Fourth Avenue Suite 400
Portland, Oregon 97201

**COPY FOR YOUR
INFORMATION**

RE: **Release Report**
 DEQ file No. 24-00-6353
 Davis, William HOT
 1705 Commercial Street S.
 Salem, OR 97302

REPORT SUMMARY

This report summarizes the field activities conducted at the above referenced site (Plates 1 and 2) during the heating oil decommissioning and soil sampling performed in October and November, 2000. Decommission activities at this site were performed by Home Service Oil Company Salem, Oregon. A Department of Environmental Quality (DEQ) Certified supervisor from Home Service Oil Co. was present on-site to observe the tank cleaning and to collect soil samples from the excavation. Disposal manifests, analytical reports, and work orders are presented in the Appendix. Estimated amount of remaining contamination is 3.15 cubic meters of soil with reported TPH-Dx levels below 2500. Generic Remedy Alternative 1 is applied. The tank was cleaned and filled with clean rock.

PRIOR FIELD ACTIVITIES

The release stopped on October 24, 2000, when 78 gallons of heating and water were pumped from the 840-gallon heating oil tank located on the west side of the residence between the home and garage. The waste was taken to Home Service's yard is stored until a sufficient amount accumulates, then is recycled by Oil Re Refining of Woodland, Washington. Please see an example of a disposal manifest included in the Appendix.

FIELD ACTIVITIES

Home Service Oil Co. discovered heating oil contamination while conducting tank decommissioning activities at the above referenced site. On November 10, 2000 a technician opened the tank and cleaned the tank. Approximately 40 gallons of sludge was removed with 5-gallon buckets and taken to Home Service Oil Company's yard. The waste was taken to Home Service's yard is stored until a sufficient amount accumulates, then is recycled by Oil Re Refining of Woodland, Washington.

SOIL SAMPLING ACTIVITIES

Two soil samples were taken 6" from the North and South ends of the tank. The South End (South @ 5'2") had no odor or staining. While sampling the North End of the tank, soil contamination was encountered @ four feet bgs (North @ 4'). Augering continued in the same bore hole to determine the vertical extent of the contamination. At approximately 71" there was no odor or staining the sample was collected.

For lateral determination a sample was collected from the East Side of the tank.

Contamination was encountered at a depth of 5'. Odor and staining associated with heating oil contamination was observed. Again augering continued in the same borehole and no odor or staining was apparent at a depth of 6'6" bgs. The soil was observed to be silty clay. The samples were collected in laboratory-supplied glass jars with Teflon-lined lids, labeled, placed in a cooler on blue ice, and transported under chain-of-custody to BTEX Analytical Inc., located in Portland. The sample was analyzed for TPH according to Oregon DEQ Method NWTPH-Dx. The analytical results are presented in Table 1 below. The soil chemical analytical report is presented in the Appendix.

Table 1

Lab ID	Lab Number	Date Sampled	Concentration (ppm)
19582	North @ 4'	11-13-00	350
19583	North @ 71"	11-13-00	ND
19584	South @ 5'2"	11-13-00	ND
19585	East @ 5'	11-13-00	1280
19586	East @ 6'6"	11-13-00	ND

The release was reported by fax to the Duty officer of the Northwestern Region office of Department of Environmental Quality on November 14, 20000 and was assigned file number 24-00-6353.

CLEANUP DETERMINATION

Generic Remedy Alternative 1 is chosen. For the following reasons:

- No contamination over 2500 ppm is present. Based on the reported analytical results
- Contamination is greater than 36" below ground surface.
- Groundwater was not encountered during sampling activities.
- The water table appears to approximately 30 feet bgs. See boring log in Appendix.
- Less than 50 cubic meters of contamination are on site.

ESTIMATED REMAINING CONTAMINATION

Method

The vertical extent was found through soil sampling. The lateral extent was determined using the available equations for contamination reduction (R) and Estimated Distance (ED). This was applied due to the proximity of the tank to the residence. The same reduction is assumed for the West Side of the tank area.

Equation 1 $R = A_1 - A_2 / D$

Where: A_1 = Initial sampling point analytical result on East Side
 A_2 = Additional delineation sampling point analytical result from North side of tank ($A_2 < A_1$).
 D = Distance between East and North Sample 4' A_1 & A_2
 R = Rate of reduction

Equation 2 $ED = (A_2 - B) / R$

Where: A_2 = Additional delineation sampling point analytical result ($A_2 < A_1$).
 R = Rate of reduction
 B = Desired analytical result of 500 ppm
 ED = Estimated Distance to desired analytical result

Lateral component East to North

$$R = 1280 - 350 / 4\text{ft} = 930 \text{ ppm} / 4 \text{ ft} = 232.5 \text{ ppm} / \text{ft}$$

$$ED = (1280 - 500 \text{ ppm}) / 232.5 \text{ ppm} / \text{ft} = 3.35 \text{ ft}$$

The Estimated Distance from East and to the West is approximately 7 feet lateral spread. Vertical conservative depth is taken from the North end of the tank with a height of 2 feet. The length of the tank is used for a conservative estimate of length of contamination even though it is recognized that the South end of the tank is reported as non-detect.

See TPH concentration contours, Plate 3. The amount of heating oil-impacted soil above 500 and less than 2500 ppm was **conservatively** determined to be:

The volume of a cube; 8 feet in length, 7 feet in width and 2 feet in height.

$$V = 8' \times 7' \times 2' \quad 112 \text{ cubic feet} \quad 4.15 \text{ cubic yards} \quad 3.15 \text{ cubic meters}$$

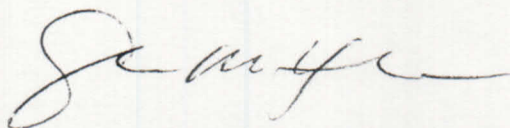
CONCLUSION

The remaining pocket has been estimated to contain approximately 3.15 cubic meter of heating oil impacted soil above 500 ppm. The top of the tank was exposed, cut off and cleaned by hand. The tank was then filled using a wheel barrow due to lack of access for equipment. The results of this evaluation demonstrate that the contaminated soil left in place is unlikely to pose an unacceptable risk to human health, safety, welfare, and the environment. This site has been brought into compliance with OAR 340-122-205 through OAR 340-122-360.

Please call Gloria M. Holthaus of Home Service Oil Company at (503) 585-7000 if you have any questions.

Sincerely,

Home Service Oil Co. by,



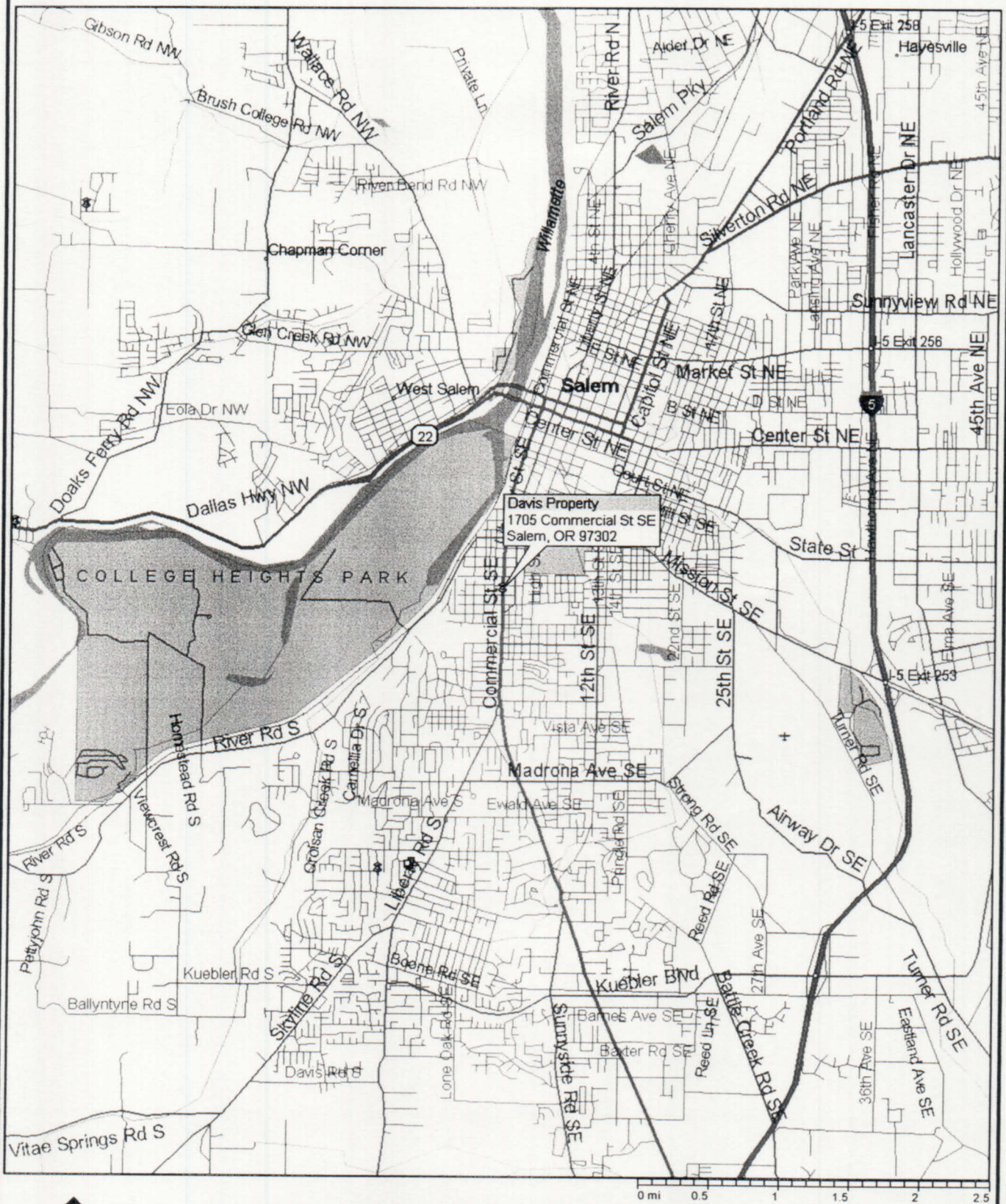
Gloria M. Holthaus

OR DEQ HOT Supervisor Services License No. 17925 exp. 8/5/02
OR DEQ Soil Matrix Supervisor License No. 15300 exp. 1/14/02

Home Service Oil Co.

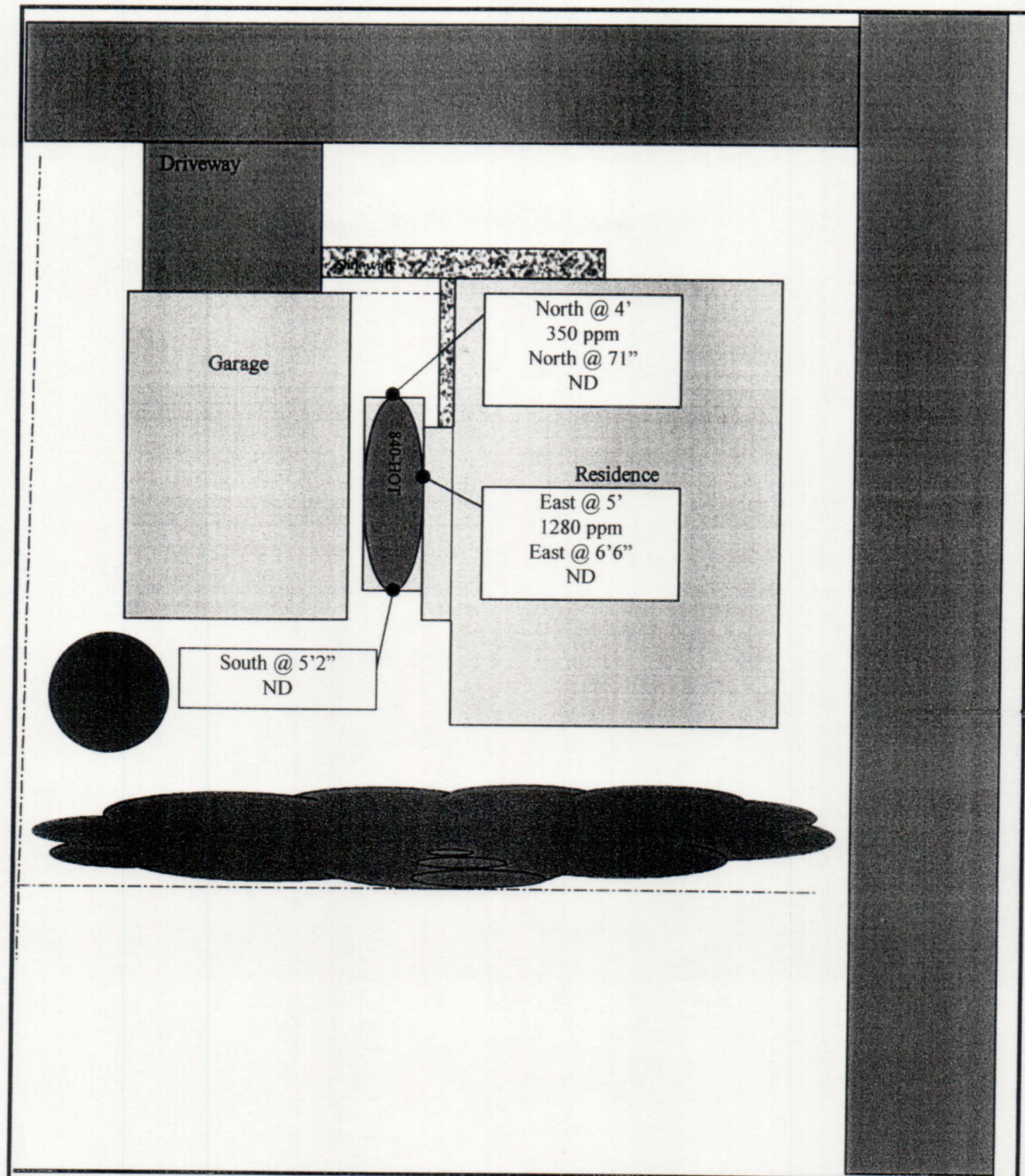
OR DEQ HOT Service Provider License No. 16490 exp. 3/01
OR DEQ UST Service Provider License No. 14647 exp. 7/01
OR DEQ UST Soil Matrix Cleanup Provider License No. 14648 exp. 7/01
CCB# 67630

Davis Property
1705 Commercial Street S., Salem, Oregon



Vicinity Map

Plate 1



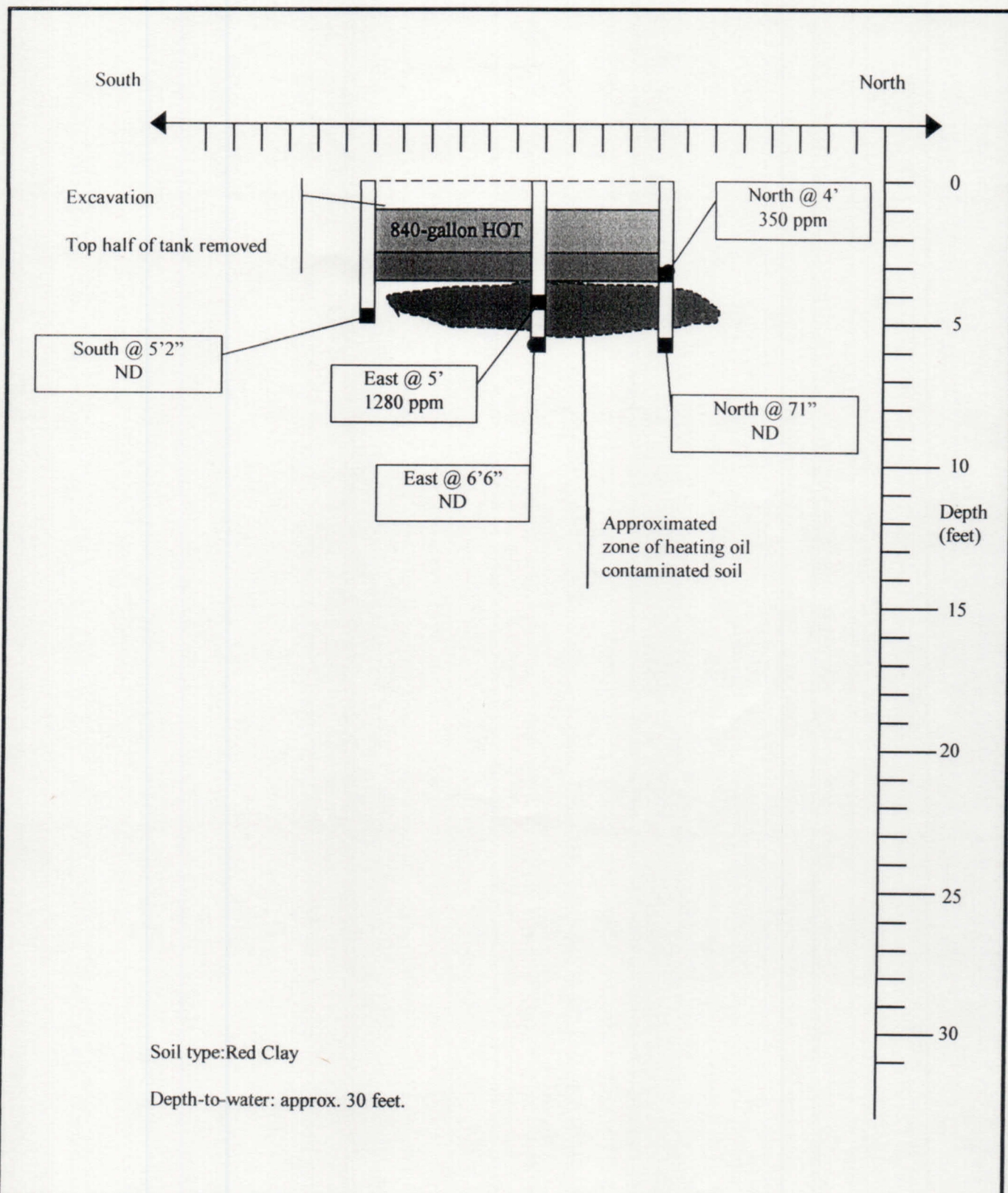
SITE MAP

Drawing not to scale



Davis Property
1705 Commercial St. S
Salem, OR 97302

Plate 2



South-North cross-section with TPH interpretation

Davis Property
1705 Commercial St. S
Salem, OR 97302

Plate 3

APPENDIX

This Section May Contain The Following:

- Checklists
- Analytical Reports
- Chain of Custody
- Tank Receipts
- Liquid Waste Disposal Tickets
- Contaminated Soil Disposal Receipts
- Well Logs
- Work Orders

FOR DEQ PORTLAND NWR OFFICE BY FAX 503-229-6945

INCIDENT INFORMATION

RECEIVED BY: _____

DATE REPORTED: (today's date) 11/14/00

LOG NBR _____

SITE NAME: DAVIS, William

SITE ADDRESS: 1705 Commercial St S

SITE CITY: Salem ZIP: 97302

SITE COUNTY: M Marion PHONE: 503 362-8152

☐ NON-REGULATED UST

☐ REGULATED UST & FAC NBR _____

☒ HEATING OIL TANK

MAIL CONTACTS

REPORTED BY (person reporting this release to the Dept.)

NAME: Gloria Holthaus

COMPANY: Home Service Oil

ADDRESS: 1710 Commercial St NE

CITY: Salem ZIP: 97

STATE: OR PHONE: 503 585-7000

EMAIL: _____

INVOICE CONTACT (required, may be same as responsible party)

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ ZIP: _____

STATE: _____ PHONE: _____

RESPONSIBLE PARTY (person responsible for remedial action)

NAME: Bill Davis

COMPANY: Home owner

ADDRESS: 1750 SUGINAW St S

CITY: Salem ZIP: 973

STATE: OR PHONE: Days: 503-363-3136

EMAIL: _____ x233

OTHER CONTACT(S) (not required)

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ ZIP: _____

STATE: _____ PHONE: _____

SITE ASSESSMENT

DATE DISCOVERED: 11/10/00

DATE TANK IS EMPTY: 11/10/00

CONFIRMATION:

- ☐ SI) STAFF: DEQ
☐ LI) LAB: DEQ
☐ LR) LAB: RP
☒ LO) LAB: OTHER
☐ RR) RP REPORT
☐ CN) CONTRACTOR
☐ OT) OTHER

DISCOVERY:

- ☐ RM) ROUTINE MONITORING
☒ DC) DECOMMISSIONING
☐ CP) COMPLAINT
☐ IC) INVENTORY CONTROL
☐ SA) SITE ASSESSMENT
☐ TT) TANK TEST
☐ OT) OTHER

CAUSE:

- ☒ TL) TANK LEAK
☐ PL) PIPE LEAK
☐ OF) OVERFILL
☐ SS) SURFACE SPILL
☐ PV) PUMP/VALVE LEAK
☐ OT) OTHER
☐ UN) UNKNOWN

CONTAMINANTS

- ☐ UG) UNLEADED GASOLINE
☐ LG) LEADED GASOLINE
☐ MG) MISC. GASOLINE
☐ DS) DIESEL (motor fuel)

- ☐ WO) WASTE OIL
☒ HO) HEATING OIL
☐ LB) LUBRICANT
☐ SV) SOLVENT

- ☐ OP) OTHER PET. DIST
☐ CH) CHEMICAL
☐ OT) OTHER
☐ UN) UNKNOWN

IMPACTS

- ☒ SL) SOIL ☐ GW) GROUNDWATER ☐ SW) SURFACE WATER ☐ DW) DRINKING WATER

- ☐ FV) FACILITY OR BUILDING (VAPOR) ☐ FP) FACILITY OR BUILDING (FREE PRODUCT)

SITE-MANAGEMENT (THIS SECTION DEPT. USE ONLY)

RELEASE STOPPED: _____

FINAL REQUEST INVOICE DATE: _____

CLEANUP STARTED: _____

NO FURTHER ACTION: _____

NOTES/COMMENTS: _____

BTEX Analytical Inc.9525 B S.W. Beaverton-Hillsdale Hwy
Portland OR 97005

Phone (503) 520-9209 FAX (503) 626-3852

Environmental Laboratory

ANALYTICAL REPORT

November 14, 2000

Page 1 of 1

Prepared For: Home Service Oil Co.
Address: 1710 Commercial NE
Salem OR 97303
Phone: (503) 585-7000
FAX: (503) 581-2790

Project Name: Davis
Project Number: 1705 Commercial
Date Sampled: 11-13-00
Date Received: 11-14-00
Report Number: 00113259

NW TPHDX

Matrix: Soil in mg/Kg (ppm)

Total Petroleum Hydrocarbons

Date Analyzed: 11-14-00

<u>Sample I.D.</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate Recovery(%)</u>
19582 / North@4'	350	ND	103
19583 / North@71"	ND	ND	92
19584 / South@5'2"	ND	ND	76
19585 / East@5'	1,280	ND	112
19586 / East@6'6"	ND	ND	85
Lower Reporting Limit	20	50	-

ND = Not Detected (below detection limit or reporting limit)


Cornelius Y. Chan Ph.D.



STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form

MARI
53915

WELL ID #

(START CARD) # 113167

(1) OWNER:

Well Number:

Name **Design Build Construction**

Address **PO Box 396**

City **Silverton** State **OR** Zip **97381**

(2) TYPE OF WORK:

☐ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☒ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:

☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well **180** ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE			SEAL			Amount	
Diameter	From	To	Material	From	To	sacks or pounds	
6"	0	180	Bentonite	0	8	3 Sacks	
			Cement	8	180	30 Sacks	
				w/	5% Bentonite		

How was seal placed: Method ☐ A ☒ B ☐ C ☐ D ☐ E
☐ Other

Backfill placed from _____ ft. to _____ ft. Material:

Gravel placed from _____ ft. to _____ ft. Size of gravel:

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6" OD	+1	125	.188	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☒ Perforations Method **Air perforator**
☐ Screens Type **Slots** Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
2	124	1/4	2160	1 1/2		<input checked="" type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min Drawdown Drill stem at Time

Temperature of Water **58** Depth Artesian Flow found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County **Marion** Latitude Longitude
Township **7/S** N or S. Range **3/W** E or W. of WM.
Section **33** NW $\frac{1}{4}$ SE $\frac{1}{4}$
Tax Lot **none** Lot Block Subdivision
Street Address of Well (or nearest address):
Crestview Glen Estates, Vibert Street South, Salem

(10) STATIC WATER LEVEL:

30 ft. below land surface. Date **3/16/99**
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Baroid 3/8 Hole Plug	0	8	
Neat Cement and Bentonite Mix	8	180	

RECEIVED

APR 7 1999

WATER RESOURCES DEPT.
SALEM, OREGON

Date started **3/16/99**

Completed **3/17/99**

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.

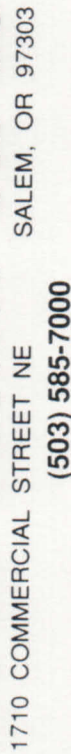
Signed _____ WWC Number **1725**
Date _____

Mack Drilling Company, Inc.

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed _____ WWC Number **1394**
Date **3-23-99**
Mack Drilling Company, Inc.



VOICE # 10432	TECH 452	TRUCK 70	OTHER
EQUIPMENT INFORMATION		CUSTOMER INFORMATION	
PE	AGE	CODE	JOB NAME DAVIS
KE			ADDRESS COMMERCIAL ST S
DEL			CROSS STREET WASHINGTON
RIAL			CITY SALEM
PE	AGE	CODE	ZIP
KE			NATURE OF REQUEST CUT UP 1/6 TANK
DEL			
RIAL			
TER			
TER			
ENVIRONMENTAL CHECKLIST		RECOMMENDATIONS	
COVER			
INSTALL			
NEW REON			
<input type="checkbox"/> CALL COMPLETE <input type="checkbox"/> RETURN (URGENT) <input type="checkbox"/> RETURN (NORMAL)		TECHNICIAN MATT / TOM	
WORK AUTHORIZATION			
AUTHORIZATION - I, the undersigned, am owner / authorized representative of the premises at which the work mentioned is to be performed. I hereby authorize you to perform Diagnosis / Solution, and to use such labor and materials you deem advisable.			
hereby authorize you to proceed with the quoted work for \$ _____			
AUTHORIZED SIGNATURE		JOB START DATE	JOB COMPLETION DATE
ACCEPTANCE OF WORK PERFORMED - I find the service and materials rendered and installed in connection with the above work mentioned to have been completed in a satisfactory manner. I agree that the amount set forth in the space labeled "TOTAL" to be the total a complete price. I agree to pay reasonable attorney's fees and court costs in the event of legal action.			
ACCEPTANCE SIGNATURE		DATE 11-13-00	
OPTIONAL SERVICE PLAN \$ _____		ACCEPT	DECLINE
		INITIALS	INITIALS

[illegible]

4-588-0721

AX 503-588-1722

800-309-JUNK (5865)

Cherry City Metals, LLC

3155 Kanz Ct. NE • P.O. Box 5191

Salem, OR 97304

DESCRIPTION	NET WEIGHT	PRICE	AMOUNT
# 1 Prep.			
# 2 Prep			
Unprepared			
Tin - Shear	2860	Ø	Ø
Tin - Baler			
Motor Blocks			
# 1 SB Copper			
# 1 Wire			
# 1 Solids			
# 2 Copper			
# 3 Copper			
# 1 Insul.			
# 2 Insul.			
Radiators			
Red Brass			
Yellow Brass			
Alum. - Sheet			
Alum. Cast			
Alum.			
Alum.			
Alum.			
Alum.			
ony Alum.			
Stainless Steel			
ony Stainless			
ie Cast			
lectric Motors			
TOTAL			(50.00)

Seller Home Service Co Date 11/1/81

DRIVER/PASSENGERS ON: 0 1 2 3 4 5

Truck # 1 Box/Trl # Orange

1:51P 10-09-00

33980 LE

2:03P 10-09-00

31120 LB

2800

TERMS AND CONDITIONS

I have read the current list of materials Cherry City Metals will not accept for regulatory and environmental reasons. I warrant that the materials I am selling Cherry City Metals do not contain any of the materials described on the list or contain hazardous or toxic wastes for which disposal in a municipal waste landfill is restricted or prohibited. I warrant that all materials, including tanks, sealed motors and metal borings, have been fully and lawfully drained of all oils and oil products. I further warrant that any items that contained ozone depleting compounds such as CFC's or Freon, have been emptied in accordance with applicable laws.

I warrant that I am the lawful owner of the materials being sold and that I have the right to sell them to Cherry City Metals. I acknowledge that for the payment I received in full, I sell and convey title to the materials to Cherry City Metals. I also understand that Cherry City Metals is not responsible for accidents to the materials or to vehicles while loading or unloading.

I agree to indemnify and hold harmless Cherry City Metals against all claims and expenses arising out of any breach of these warranties.

By **X**

PAYMENT RECEIVED IN FULL



SPENCER ENVIRONMENTAL

Protecting the Environment

INVOICE #: 62724

6400 SE 101st Ave. • Portland, Oregon 97266

* (503) 788-4612 Fax: (503) 788-4629

DATE: Oct 23 00

TO:

HOME SERVICE OIL
1710 COMMERCIAL ST NE
SALEM, OR 97303

LOCATION:

HOME SERVICE OIL
1710 COMMERCIAL ST NE
SALEM, OR 97303

SI #	EMP INT	PO #	DATE OF JOB	PROFILE#	TERMS NET	DUE DATE	ORDER #
5550	KF		Oct 17 00		30 DAYS	Nov/22/00	84336

Contact Gloria @ 503-585-7000

Pump the drums of sludge as directed on site. Transport the waste to our plant for processing and disposal.

08-0SRV-0055-0SUR	SERVICE CALL CHARGE (INDU)	1.00	150.00	EA	150.00
06-0NLQ-SE3-0SUR	NON-HAZ LIQUID DISPOSAL (73.00	0.50	BA	36.50
06-0NSD-0001-0SUR	NON-HAZ SOLID/SLUDGE DISP	100.00	2.35	BA	235.00

93-7013

PLEASE REMIT PAYMENT TO:
6400 S.E. 101st AVENUE
PORTLAND, OR. 97266-5142

ORDERED BY: Gloria 503-585-7000

PAY THIS AMOUNT →

421.50

A FINANCIAL CHARGE of 1 1/4% per month may be applied to any Past Due amount.
Past Due Accounts may be placed on C.O.D. without notification. If outside collection action is necessary purchaser shall pay all costs of collection including reasonable attorney fees.

HOME SERVICE OIL CO. HEATING & COOLING

1710 COMMERCIAL ST. N.E. • SALEM, OREGON 97303 • (503) 585-7000 • Fax (503) 581-2790

Date of Report Certification: 11-28-00

Tank Owner Name: William Davis

Site Address: 1705 Commercial St. S. Salem, OR

DEQ Cleanup File Number: 24-00 6353

- Type of Project:
- ☐ Soil Matrix Cleanup
 - ☒ HOT Generic Remedy Cleanup
 - ☐ Risk-Based Cleanup with Corrective Action Plan
 - ☐ Tank Decommissioning with no contamination

Home Service Oil Company has performed heating oil tank services at the above property and certifies that the work performed meets the appropriate requirements of OAR 340-122-0205 through 340-122-0360 and OAR Chapter 340, Division 177.

Based on information and belief formed after reasonable inquiry, the heating oil tank services performed under this certification were conducted in compliance with all applicable federal, state, and local laws.

Home Service Oil Company is currently insured as required by OAR 340-163-0050.

Signed By: Ginny Barrett Date Signed: 11-28-00
Ginny Barrett Vice President

Home Service Oil Company

HOT Service Provider License 16490 exp. March 15, 2001

UST Service Provider License 14647 exp. July 3, 2001

Soil Matrix Cleanup Provider License 14648 exp. July 3, 2001



DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

INITIAL Heating Oil Cleanup Report Form

March 1, 2000

If required by OAR 340-177-0055(5), complete this INITIAL report and submit it to the appropriate DEQ regional office as soon as possible, but at least within 45 days from the date the release from a heating oil tank is confirmed.

Property Owner Name: William Davis

DEQ Site ID No.: 24-00-6353
(Log Number)

Property Address: 1705 Commercial St. S.

City/State/Zip Code: Salem, OR 97302

County: Marion

Owner Phone Number: 503-362-8152

Owner Mailing Address (if different): 1750 Saginaw St. S. Salem, OR 97302

11-10-2000 Date the release was originally suspected (e.g. water in tank) or confirmed (sight, smell, test).

11-14-2000 Date the release was reported to DEQ. Name of DEQ person contacted: Tim Brown?

Note: Releases must be reported within 72-hours by owner or service provider.

Circle One

Yes No

A visual inspection of the release has been made and immediate actions taken to prevent any further release or migration of heating oil into surrounding soils or groundwater.

Yes No

Any fire, explosion, and/or vapor hazards in soil or groundwater have been identified and mitigated.

Yes No X NA Monitoring for hazards has continued beyond initial identification.

Yes No NA

As much heating oil/sludge as possible has been removed from the tank. Gallons removed: 118

Name of oil recycling or disposal company (circle one): Spencer Environmental

Yes No

Hazards posed by contaminated soil that has been excavated or exposed have been remedied.

Note: Contaminated soil cannot be stored on-site for more than 30 days without a permit from DEQ.

Yes No

Free product has been observed in the tank pit and/or groundwater (circle any that apply).

Note: Any free product observed must be removed and properly treated/disposed.

Yes No

Groundwater has been encountered during tank decommissioning or cleanup actions taken to-date.

Note: DEQ must be notified immediately when groundwater is encountered at any time.

Yes No

Measurements for the presence of a release where contamination is most likely to be encountered have been made at the time of this report. If yes, note highest TPH sample result: 1280 mg/kg TPH-Dx

Yes No

Cleanup actions have been initiated at the time of this report. If no, include proposed schedule for cleanup and statement of reason for delayed cleanup: Proposed cleanup date (month/year) _____

Reason: _____

Name of person preparing report: Gloria Holthaus
(please print)

Signature: [Signature]

Date of report: 11-28-00

Supervisor Cleanup License No.: 17925

Expiration Date: 8-5-02

Licensed Heating Oil Tank

Service Provider Company: Home Service Oil

Company License Number: 16490

Expiration Date: 3-15-01



Department of Environmental Quality - Underground Storage Tank Program
Heating Oil Tank Services
Service Provider Report Certification

Project Cost Summary

March 1, 2000

This form is to be completed by the licensed service provider for each certified heating oil tank project submitted to DEQ.

This summary must be included with the project certification cover sheet, checklist, and decommissioning or cleanup report. Upon receipt, DEQ will separate this form from the report and compile the project cost information for future reference.

Complete the following information for Questions 1 through 5:

1. Date the heating oil project was complete: 11-13-00
2. County the tank site is located in: Marion
3. Project cost (amount billed to tank owner): 2537.10
4. Type of certification category (check one):
 - ☐ Decommissioning only
 - ☐ Soil Matrix Cleanup
 - ☒ Generic Remedy Cleanup
 - ☐ Risk-Based Cleanup
5. Rate the general **complexity** of the project as compared to other similar projects of the same category that your company has worked on:
 - ☐ Normal
No unusual circumstances
 - ☐ Moderate
Some difficulties encountered
 - ☒ Difficult
Problems encountered that caused increased work or other complexities



Department of Environmental Quality (DEQ)- Underground Storage Tank
Program

Heating Oil Tank
Service Provider Report Certification

Cleanup Checklist

March 31, 2000

This checklist is divided into five sections. Section A must be completed for all cleanup projects. Complete Sections B, C, D, E as appropriate for the type of cleanup completed. The checklist must be filled out as completely as possible and any exceptions noted for the certification to be valid.

GENERAL INFORMATION

Tank Owner Name: William Davis

Tank Site Address: 1705 COMMERCIAL STS.
Salem OR 97302

DEQ Cleanup File Number: 24 - 00 - 6353

Date Release Reported: 11-14-00

Licensed HOT Service

Provider Company Name: Home Service Oil Co

16490
License Number

3-15-01
Expiration Date

Licensed HOT

Supervisor Name: GLORIA M. HOLTHAUS

17925
License Number

8-5-02
Expiration Date

"By my signature below, I state that the information contained in this checklist is true and complete to the best of my knowledge." (If more than one supervisor was involved with the project, please add a second sheet with the license information and a signature block).

Supervisor Signature: [Signature] Date: 11-28-00

The Oregon Department of Environmental Quality, by signing below, indicates that it has audited this cleanup and, based on the facts presented in the report, has determined that the cleanup has met the requirements of Oregon Administrative Rules (OAR) 340-177-0001 through 340-177-0095.

DEQ Project Manager Signature: _____ Date: _____

NOTE: DEQ must sign this checklist for the certification to be valid for ALL cleanups where Section E, must be filled out. Otherwise, the certification DOES NOT require DEQ to sign off on the cleanup.

✓ Check each item as complete and correct. By checking any of the boxes in this checklist, you are indicating that the statement applies to this project. If there are any exceptions to the statement, please note them in the comment area provided at the end of the checklist. If the statement does not apply, please do not check the box.

NOTE: TPH = Total Petroleum Hydrocarbons as diesel by method NWTPH-Dx

SECTION A - ALL CLEANUP PROJECTS

- ☒ A1. The release of petroleum was reported to DEQ (OAR 340-163-0020(4)).
- ☒ A2. No free product is present or was removed during initial abatement actions.
- ☐ A3. Water is present at the site and DEQ was notified. Please note the name of the DEQ Staff person notified and the date of notification _____.
- ☒ A4. A site sketch, drawn approximately to scale, is included in the report (OAR 340-122-0345) which clearly shows:
- ☒ The location of all buildings and other key features, both man-made and natural;
 - ☒ The names of adjacent streets and properties;
 - ☒ The location of all excavations including those that were for the removal of tanks and associated piping as well as those that were strictly for the removal of contaminated soils;
 - ☒ The location of all underground storage tanks, including those that were decommissioned as well as those that remain on the site in the vicinity of the cleanup;
 - ☒ All soil and water sample locations including sample depths and analytical results; and
 - ☒ Location of remaining contaminated soil (for risk-based decision making and generic remedy).
- ☒ A5. All soil and/or water samples have been properly collected, coded, stored, shipped, and analyzed as required and chain-of-custody forms have been filled out (OAR 340-122-0218, 340-122-0340 and 340-122-0345).
- ☐ A6. Petroleum-contaminated soil has been removed from the property and properly handled, disposed of, or treated.
Amount of soil taken off-site for treatment/disposal: _____
Disposal/treatment location: _____
- ☒ A7. A report has been prepared which includes a detailed description of everything that was observed and performed at the site and contains all of the information required by (check one):
- ☐ OAR 340-122-0360 and OAR 340-177-0055
 - ☒ DEQ's "Heating Oil Tank Generic Remedy Guidance Document" (January 24, 2000)
 - ☐ DEQ's "Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites" (September, 1999)

Note: The submittal of this checklist does not replace a final cleanup report.

For Soil Matrix cleanup project, complete Section B.

For Generic Remedy cleanup project, complete Section C.

For Risk-Based cleanup project (simple, soil-only), complete Section D.

For all sites where groundwater is encountered or where heating oil tank constituent concentrations exceed the risk based concentrations in Appendix A of the DEQ's "Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites" (September, 1999), complete Section E.

SECTION B - SOIL MATRIX CLEANUP

- ☐ B8. No contaminated soil exceeding the soil matrix level established for this site remains onsite. If a pocket of contamination exceeding the matrix level remains, use the checklist in Section C, D, or E instead.
- ☐ B9. TPH concentrations greater than 100 mg/kg remain in the soil and a Matrix Score Sheet has been completed. Supporting documentation for the matrix evaluation is included in the report. This project is a (check one):
 - ☐ Level 2 site (500 ppm TPH)
 - ☐ Level 3 site (1,000 ppm TPH)
- ☐ B10. Groundwater was encountered, but no benzene, toluene, ethylbenzene, and total xylenes (BTEX) or polynuclear aromatic hydrocarbons (PAHs) were detected in water above the risk-based concentrations. No BTEX was detected in soil samples collected from the soil/water interface pursuant to OAR-340-122-340.

SECTION C - GENERIC REMEDY

- ☒ C8. Contamination is limited to soil only and the remaining contaminated soil is above the seasonally high groundwater level.
- ☒ C9. The magnitude and extent of contamination has been clearly delineated both horizontally and vertically to at least 500 mg/kg TPH.
- ☒ C10. The volume of contaminated soil remaining in the subsurface above 500 mg/kg TPH is less than 65 cubic yards.
- ☒ C11. Any contaminated soil left in place is deeper than 3 feet below ground surface.
- ☒ C12. The maximum heating oil TPH concentration remaining in the soil is less than 10,000 mg/kg. The maximum TPH concentration detected remaining in the soil is 1280 (mg/kg).
- ☐ C13. Contaminated soil left in place is greater than 2,500 mg/kg TPH. A representative soil sample was collected from the most contaminated soil remaining at the site and analyzed for benzene. No benzene was detected in the soil in excess of 0.1 ppm.

SECTION D - SOIL ONLY RISK-BASED EVALUATIONS

- ☐ D8. Contamination is limited to soil only. The magnitude and extent of heating oil contamination (as TPH), has been clearly delineated vertically and horizontally (OAR 340-122-0240). *Note: It is often a site-by-site decision on the adequacy of this determination. Contact the appropriate regional office if there are questions on this issue.*
- ☐ D9. A sample representative of the most contaminated soil remaining at the site was obtained and analyzed. No BTEX or PAHs were detected in the soil in excess of any of the risk-based concentrations in DEQ's "Risk-Based Decision Making for the Remediation of Petroleum Contaminated Sites" (September 1999) guidance document.

**SECTION E - GROUNDWATER AND
COMPLEX RISK-BASED EVALUATIONS**

Note: The certification is not considered to be valid until the Department has reviewed this file and concurred with the certification for sites in this category.

- ☐ E8. The magnitude and extent of heating oil contamination as TPH in soil, and BTEX & PAHs in groundwater, have been clearly delineated vertically and horizontally (OAR 340-122-0240). *Note: It is often a site-by-site decision on the adequacy of this determination. Contact the appropriate regional office if there are questions on this issue.*
- ☐ E9. A mass balance calculation was performed using the form provided by the Department.
- ☐ E10. A detailed risk based evaluation has been conducted and the site has been found to be in compliance with OAR 340-122-0205 through 340-122-260. A detailed report documenting the finding has been prepared.

Comments:



DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Generic Remedy for Cleanup of Releases from Residential
Underground Heating Oil Tank Report Form

January, 2001

Complete this report and submit it to the appropriate DEQ regional office within sixty (60) days from the date the release from a residential heating oil tank is confirmed. Completion of this report form satisfies the requirements of Oregon Administrative Rules (OAR) 340-177-0055. Please read the Generic Remedy Report Form Instructions before completing this report.

General Information

Property Owner Name: William Davis

DEQ Site ID No.: 24-00-6353
(File Number)

Property Address: 1705 Commercial St. S.

City/State/Zip Code: Salem OR 97302

County: Marion

Owner Phone Number: 503-362-8152

Owner Mailing Address (if different): 1750 Saginaw St. S., Salem, OR 97302

Name of Person Reporting Release: Gloria Holthaus

Phone Number (if different from Owner): 503-585-7000

Nov. 10, 2000 Date the release was originally suspected (e.g. water in tank) or confirmed (sight, smell, test).

Nov. 14, 2000 Date the release was reported to DEQ. Name of DEQ person contacted: _____

Note: Confirmed releases must be reported within 72-hours by the service provider or the owner if a licensed service provider has will not be certifying the cleanup..

11-10-00 Date the tank was removed or decommissioned in-place (circle one).

Approximate size of tank: 840 gallons

If the tank was filled in-place, what type of fill material was used? Drainage rock

11-10-00 Date cleanup started.

11-14-00 Date cleanup completed.

1200 Approximate square footage of home on property where the release has occurred.

REPORT FORM

Initial Abatement Information (circle the appropriate answer)

1. ☒ Yes ☐ No A visual inspection of the release has been made and immediate actions taken to prevent any further release or migration of heating oil into surrounding soils or groundwater.
2. ☒ Yes ☐ No Any fire, explosion, and/or vapor hazards in soil or groundwater have been identified and mitigated.
☐ Yes ☐ No ☒ NA Monitoring for hazards has continued beyond initial identification.
3. ☒ Yes ☐ No NA As much heating oil and sludge as possible has been removed from the tank.
 Gallons removed: 118
 Name of oil recycling or disposal company (circle one): Spencer Environmental
4. ☒ Yes ☐ No Hazards posed by contaminated soil that has been excavated or exposed have been remedied.
 Note: Contaminated soil cannot be stored on-site for more than 30 days without a permit from DEQ.
5. ☒ Yes ☐ No Free product has been observed in the tank pit and/or groundwater (circle any that apply).
 Note: Any free product observed must be removed and properly treated/disposed. Use of the Generic Remedy for Heating Oil Tank Releases is not appropriate if free product is present.
6. ☒ Yes ☐ No Groundwater has been encountered during tank decommissioning or cleanup actions taken to-date.
 Note: DEQ must be notified immediately when groundwater is encountered at any time.
 Yes ☐ No ☐ Water in the tank excavation was encountered and pumped out, but did not recharge after 24 hours.
 Use of the Generic Remedy for Heating Oil Tank Releases is not appropriate if water recharges into the excavation 24-hours after initial pumping.
7. How was the release initially discovered? (Check any boxes that are correct)
☒ During tank decommissioning
☐ During a site assessment not associated with tank decommissioning (e.g. for property transaction, etc.)
☐ Other. Describe: _____
8. What observations were made about the tank condition when it was removed from the excavation or decommissioned in-place?
 Describe: Baffle Reinforced 840 gal tank. Small pinholes
9. How much contaminated soil was removed? 0 cubic yards What was done with the contaminated soil?
 (Check any boxes that apply)
☐ Disposed of at: _____ (name of disposal company)
☐ Treated off-site at: _____ (name of treatment company)
☐ Treated on-site. ATTACH copy of Solid Waste Letter of Authorization permit approved by DEQ.
☐ Yes ☐ No On-site treatment of contaminated soil is complete.
10. How was the cleanup conducted? Describe actions taken during cleanup and note any unusual circumstances: lateral & vertical samples taken due to RESTRICTED ACCESS. TANK cleaned & top half of upper curve cut off - it lot should be graded at a later date.

REPORT FORM

11. Note **highest** TPH soil sample result prior to any excavation of soil: 1280 mg/kg TPH-Dx
12. The following information must be ATTACHED as part of this report (clearly label each attachment as listed below):

Attachment
Label ID

A Site map, drawn roughly to scale, showing the location of all buildings on the property and on adjacent properties and the location of the heating oil tank. Include distances in feet between objects.
Plate 2

B Sketch of the property that clearly shows the sample locations and depths of all soil samples collected and identifies each location and sample with a unique sample identification code. An additional cross-section diagram may be necessary to clearly show sample locations at-depth.
Plate 2
Plate 3

C Copies of chain-of-custody forms for all soil samples collected.
Appendix
Note: Chain-of-custody forms should include the date, time, and location of each sample collected; the name and company of the person collecting the samples; a description of how the samples were collected, stored, and shipped to the laboratory; and note any problems encountered during the cleanup or sampling process that may have affected sample integrity. Forms should clearly state the address of where samples were collected as a unique identifier.

D Copies of all laboratory data reports. Test methods used, including method reporting limits, must be included. Include data for all samples, even if data is not used in summary (question #13).
Appendix

E Copies of all receipts or permits related to the disposal of any oil / sludge, free product, water pumped from the excavation, contaminated soil, and/or decommissioned tank and piping (circle all that apply).
Appendix

F Any photographs taken at the time of the heating oil tank decommissioning and cleanup that depict major activities (e.g. tank as it is removed to note presence or absence of pits or holes, contaminated soil handling, excavation, tank/excavation in relation to home, unusual circumstances, etc.)
Appendix

13. Provide a summary of the concentrations measured in the FINAL round of soil samples from each sample location that clearly show the extent and magnitude of the contamination.

Note: Write in the specific unit of measurement for each contaminant if different. Write in "N/A" if sample was not analyzed for Benzene. Use additional pages as necessary to report final summary results.

Sample ID	Location ID	TPH-Dx Conc.	Benzene Conc.
19582	North @ 4'	350 mg/kg	N/A ppm
19583	North @ 71"	ND mg/kg	ppm
19584	South @ 5'2"	ND mg/kg	ppm
19585	East @ 5'	1280 mg/kg	ppm
19586	East @ 6'6"	ND mg/kg	ppm
		mg/kg	ppm
		mg/kg	ppm
		mg/kg	ppm

REPORT FORM

Final Report Checklist and Signature

All of the following boxes must be checked indicating that the action has been taken and/or procedures followed correctly. This does not substitute for service provider certification requirements in OAR Chapter 340, Division 163. The person signing this report must ensure that this information is correct. "Guidance" refers to the Heating Oil Tank Generic Remedy Guidance Document.

- ☒ The cleanup project is for a release from a residential underground heating oil tank (a tank used primarily for single-family dwelling purposes; OR
- ☐ The cleanup project is for a commercial underground heating oil tank. On a separate attachment, describe why use of the generic remedy for residential tanks is appropriate to use for the commercial tank.
- ☒ A verbal report of the discovery of contamination from a leaking heating oil tank was made to the appropriate DEQ regional office. *Fixed*
- ☒ The underground tank was decommissioned following the procedures in Appendix 4 of the Guidance.
- ☒ A site assessment was conducted and the magnitude and extent of the contamination was determined in accordance with the procedures outlined in Appendix 3 of the Guidance.
- ☒ All samples were collected in accordance with methods described in OAR 340-122-0345.
- ☒ This project meets all of the Qualifying Criteria set forth in Section 1 of the Guidance.
- ☒ This project meets Remedial Action Alternative 1 of the Guidance; OR
- ☐ This project meets Remedial Action Alternative 2 of the Guidance.

Name of person preparing report: Gloria Holthaus ☒ Licensed Cleanup Supervisor?
(please print) Signature: [Signature] Date of report: 11-28-02
(if yes, check box)

Supervisor Cleanup License No.: 17925 Expiration Date: 8-5-02

Licensed Cleanup
Service Provider Company: Home Service Co.

Cleanup License Number: 16490 Expiration Date: 3-15-01

NOTE: If cleanup work and report documentation was conducted by the homeowner, describe how you learned how to perform the cleanup work: _____

☐ Yes ☐ No Additional information is included. If yes, write in attachment label(s): _____

HOME SERVICE OIL CO.

1710 Commercial St. N.E. • Salem, Oregon 97303

(503) 585-7000

HEATING, AIR CONDITIONING & SERVICE

INVOICE

CCB#6763

CUSTOMER: BILL DAVIS
1750 SAGINAW ST S
SALEM OR 97302

11 | 28 | 00

DATE BILLED

2-60545 20432

ACCOUNT NO.

INVOICE NO.

DATE WORK DONE

MAN NO.

TRUCK NO.

SERVICE FOR: BILL DAVIS (T432)
1705 COMMERCIAL ST SE
SALEM OR 97302

AMOUNT
PAID \$

DETACH TOP PORTION AND RETURN WITH PAYMENT

DESCRIPTION	QUANTITY	AMOUNT
DECOMMISSION TANK		1,850.00
CREDIT FOR BACKFILL		225.00-
TWO INITIAL SOIL SAMPLES		250.00
DISPOSAL OF 78 GALLONS WASTE OIL AND 40 GALLONS SLUDGE AT \$.95 PER GALLON		112.10
3 ADDITIONAL SOIL SAMPLES NWTPH-DX FOR CONTAMINATION AT \$100.00 PER SAMPLE		300.00
DEQ REPORT AND FILING		250.00
Payment in full of this invoice due within 30 days		
*** PAYMENTS ARE NOT SHOWN ON THIS INVOICE ***		
DUE UPON COMPLETION		
FINANCE CHARGES ONLY ON ACCOUNT 30 DAYS PAST DUE.		
TERMS: To avoid a FINANCE CHARGE pay this invoice within 30 days. On balances not paid in 30 days a FINANCE CHARGE of 1-1/2% per month, which is an ANNUAL PERCENTAGE RATE OF 18%, will be		
PLEASE PAY TOTAL \$ AMOUNT SHOWN		2,537.10