Guidance

Preparing a Heating Oil Tank Decommissioning Report

State of Oregon
Department of
Environmental
Quality

Guidance for Contractors and Homeowners
Oregon Administrative Rule 340-177-0025(3)

January 2020

Last Updated: 1/1/20
By: Lauren Dimock
12-LQ-039

This report prepared by:

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(503) 229-6704

For “property transaction,” “expedite” or “rush only” processing of this file, please use this address:

Oregon Department of Environmental Quality
HOT Program
700 NE Multnomah St., Suite 600
Portland, OR 97232

For all other transactions regarding this file, please use this address:

Oregon Department of Environmental Quality
Attention – Revenue Section
700 NE Multnomah St., Suite 600
Portland, OR 97232

Preparing a Heating Oil Tank Decommissioning Report

The quality and completeness of the Heating Oil Tank Voluntary Decommissioning Report, submitted by contractors and homeowners who do their own work, are important factors in DEQ's response in registering these reports. DEQ has developed this "model" HOT Voluntary Decommissioning Report to provide an example of a complete report. Many of the pages are DEQ-provided forms where the requested information needs to be filled in completely. Many of the attachments are copies of documents received from laboratories or waste handling treatment and disposal companies.

Other critical parts of the report that are very site specific are the narrative discussion describing major activities involved in completing the decommissioning, and the presentation of sampling data. The narrative discussion should be a simple explanation of the decommissioning and sampling activities that took place and the standard practices that followed. Simple tables displaying sampling results and associated site maps that show sampling locations and depths are critical to quick, complete understanding of what was at the site and vital in demonstrating that environmental standards are met.

For each of the topics outlined below, there's a corresponding example of the document or information that satisfies that requirement.

1. HOT Project Cost Summary Form [1 page] – **please do not attach this sheet to rest of decommissioning report**.
2. HOT Certified Report Cover Page Form [1 page].
   a. Version for use by contractors.
   b. Version for use by homeowners.
3. HOT Decommissioning Checklist [2 pages]
4. HOT Decommissioning Report [2 pages]
5. Example of Report Cover Page
6. Example of Report Table of Contents
7. Example of Report Narrative Discussion
   a. Introduction
   b. Site activities
   c. Sampling methodology and analytical results
   d. Summary
   e. Recommendations
   f. Attachments
8. Example Table of Sample Results
   a. Soil sample results
   b. Water sample results, **if applicable**
9. Example Site and Vicinity Maps
10. Example of Locations and Results Sketch
11. Example of Chain of Custody Form
12. Example of Laboratory Report
13. Example of Disposal Receipts
    a. Tank contents disposal receipt
    b. Tank disposal receipt (if tank is removed)
14. Example of Decommissioning Photos

Copies of standard forms referred to or pictured in this report are available by:

1. Downloading from these web pages:

    a. Contractors go to: https://www.oregon.gov/deq/tanks/Pages/HOT-Service-Providers.aspx
    b. Homeowners go to: https://www.oregon.gov/deq/tanks/Pages/HOT-Homeowners.aspx

2. Calling DEQ's Northwest Region office, Portland, at 503-229-6170

3. Calling toll-free in Oregon and leaving a message at 1-800-742-7878

4. Sending e-mail requests to hotinfo@deq.state.or.us.

5. Writing to DEQ's Northwest Region office:

    Oregon Department of Environmental Quality
    Heating Oil Tank Program
    700 NE Multnomah St., Suite 600
    Portland, OR 97232

Additional technical information and links to other agency programs are also available on the web pages whose addresses are listed in 1a and 1b above.

1. Heating Oil Tank Project Cost Summary Form

Project Cost Summary form available at: https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx

ALERT! Contractors or homeowners, **please do not** staple or bind this form with rest of decommissioning report. This one-page form **is not** filed in the HOT certification file.

State of Oregon Department of Environmental Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

PROJECT COST SUMMARY

This form must 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. *This form is used to record general information only and is not part of the individual file for any specific project.*

Complete the following information for Questions 1 through 5:

1. **Date** the heating oil project was complete: _____

2. **County** the tank site is located in: _____

3. Project **cost** (what did it cost to perform the services listed below): _____

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

2. Heating Oil Tank Certified Report Cover Page Form

a. For use by HOT service providers (contractors complete DEQ's one-page form).

Certified report cover page form available at https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx

ALERT! See "Certification Instructions for Service Providers" for information about fees that must be submitted with each report https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

CERTIFIED REPORT COVER PAGE INFORMATION

The following information must be **reproduced exactly as written on official company stationary** (showing the company name, address, and phone number), ***for each certified project report***. Each project that is certified must include a separate certification cover that includes the information listed on this page.

- **Include the following information:**

  Date of Report Certification
  Tank Owner Name
  Tank Site Address
  Tank Owner Mailing Address (if different from site address)
  DEQ Cleanup File Number (Not applicable for decommissioning projects)
  Type of Project and Fee: (list only one) Soil Matrix Cleanup ($250);
  HOT Generic Remedy Cleanup($350);
  Risk-Based Cleanup ($450); or
  Decommissioning (no contamination detected; $100)

- **Print the following statement exactly as written and sign:**

<Company Name> 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.

<Company Name> is currently insured as required by OAR 340-163-0050.

Signed By:_____ Date Signed:_____
<Print name and title of person signing under signature>
<The only persons who can sign certifications are those designated in the license application>

Licensed Service Provider Company Name:_____

Service Provider License Number:_____ Expiration Date:_____

- *Attach* all of the following for each certified project:
  - appropriate project certification checklist, signed by licensed supervisor
  - project report, including all supporting documentation
  - project cost summary form (do NOT put this form on company letterhead)

See "Certification Instructions for Service Providers" (Form No. DEQ-06-LQ-015) for information about fees that must be submitted with each report

b. For use by HOT homeowners (homeowners complete DEQ's one page form.)

Homeowners certified report form available at https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx.

ALERT! A non-refundable filing fee of $100 must be submitted with each HOT Decommissioning Report.

Date: _____

Tank Owner Name: _____

Tank Site Address: _____

DEQ Cleanup File Number: _____-____-_____.

Type of Project: (check one)
? Soil Matrix Cleanup
? HOT Generic Remedy Cleanup
? Risk-Based Cleanup with Corrective Action Plan
? Voluntary Decommissioning

I have performed heating oil tank services at the above property and certify that the work performed meets the appropriate requirements of OAR 340-122-205 through 340 -122-0360 and OAR Chapter 340, Division 177.

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

Signed By:_____ Date Signed: _____

- Attach all the following
  - Appropriate project certification checklist, signed by homeowner
  - Project report, including all supporting documentation
  - Registration fee

3. Heating Oil Tank Decommissioning Checklist Form

Complete DEQ's two-page form. Decommissioning Checklist form available at https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx.

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

DECOMMISSIONING CHECKLIST

State of Oregon Department of Environmental Quality

COMPLETE this checklist for any voluntary decommissioning project certified. Important: This checklist is for decommissioning projects where no contamination has been detected. If contamination is present, use the Cleanup Checklist.

GENERAL INFORMATION

Tank Owner Name: _____

Tank Site Address: _____

_____

Please Print or Type

Tank Owner Phone Number: _____

Licensed Service Provider
Company Name: _____

_____ _____
License Number Expiration Date

✓ **Check each item that is complete and correct (i.e. true).** 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. If the statement does not apply, please do not check the box. *Important: This checklist must be signed on page 2 by the supervisor with responsibility for this project.*

Check one of the following three statements - A, B, or C.

☐ A. The decommissioning was performed after March 15, 2000.

☐ B. The decommissioning was performed prior to March 15, 2000 by a licensed service provider (Soil Matrix Cleanup or UST Decommissioning) and two soil samples were collected in general conformity with OAR 340-177-0025.

Service Provider Name: _____ License No.: _____

C. The decommissioning was performed prior to March 15, 2000 by an unlicensed contractor or no soil samples were originally collected at time of decommissioning. If this box is checked as yes, then this checklist is used to document current site assessment actions taken to comply with the requirements of OAR 340-177-0025.

☐ Check all of the statements below that are true.

☐ 1. No contamination was detected during the site assessment above 50 mg/kg NWTPH-Dx or was non-detect for NWTPH-HCID.

☐ 2. The tank was decommissioned using a national code of practice.

☐ 3. The tank was cleaned to the maximum extent practicable. Disposal receipts for the tank contents are included in the report.

4. Check one of the following:
- ☐ 4.A. The tank was decommissioned in-place, and was filled with a solid inert substance that completely filled the tank void space.
- ☐ 4.B. The tank was decommissioned by removal.

☐ 5. A site assessment was conducted that meets the requirements of OAR 340-177-0025.

☐ 6. Water was present in the tank pit and the requirements of OAR 340-177-0025(2)(3) have been met.

☐ 7. A site sketch, drawn approximately to scale, has been made of this site (OAR 340-177-0025(e) and (f)) 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;
- ☐ The location of all underground storage tanks, including those that were decommissioned as well as those that remain on the site; and
- ☐ All soil and water sample locations including sample depths.

☐ 8. All soil and/or water samples have been collected, coded, stored, shipped, and analyzed as required, and chain-of-custody forms have been filled out (OAR 340-122-0218, 340-122-0340, 340-122-0345 and 340-177-0025).

☐ 9. A report has been prepared which includes a detailed description of everything that was observed and performed at the site, and that meets the requirements of OAR 340-177-0025(3).

Additional Comments

"By my signature below, I state that the information contained in this report is true and complete to the best of my knowledge."

Name of person preparing report:_____
(please print)

Signature:_____ Date:_____

Supervisor License No.:_____ Expiration Date:_____

4. Heating Oil Tank Decommissioning Report Form

Complete DEQ's two-page form. Decommissioning Report form available at https://www.oregon.gov/deq/tanks/Pages/HOT-Forms.aspx.

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

HEATING OIL TANK DECOMMISSIONING REPORT FORM

State of Oregon Department of Environmental Quality

Completion of this form meets the requirements of OAR 340-177-0025. **Be sure to sign and date page two after answering all questions.**

DEQ Use Only: File No. _____

Property Owner Name:_____

Property Address:_____

City/State/Zip Code:_____ County:_____

Owner Phone Number:_____

Owner Mailing Address (if different): _____

_____

Licensed Heating Oil Tank Service Provider:_____

License Number:_____ Expiration Date:_____

Yes No A narrative report is attached. (circle one)

1. What national code of practice was followed during decommissioning?

   _____

2. The tank and associated piping must be cleaned as thoroughly as possible to the maximum extent practicable of all product, sludge and/or water.
   Describe how the tank was cleaned:_____

   _____

   How much product was removed?_____gallons Sludge?_____gallons Water?_____gallons

   Where was the product/sludge/water **recycled?**_____ **disposed**? _____

3. _____ Date tank was **removed** or decommissioned **in-place**. (circle one of **bold** that applies)

   Approx. size of tank:_____gallons

   If tank filled in-place, what type of fill material was used?_____amount?_____gal.
   Tank must be completely filled with inert solid material that is compacted and appropriate for site conditions.

   If tank was removed, where was it **recycled/disposed** of? _____
   (circle one of **bold** that applies)

4. What was observed when the tank was removed from the pit or decommissioned in-place? Describe tank condition and excavation, etc.:_____

   _____

   (circle one)

1. Yes No Groundwater was encountered in the tank pit. If yes, ATTACH a separate summary of the data collected . *DEQ must be notified immediately if groundwater encountered.*

2. A site assessment must be performed that meets the requirements of OAR 340-177-0025(2)(c) and (d).

Provide a summary of the concentrations measured for soil samples collected from each sample location. NWTPH-HCID test may be used, however any positive results must be confirmed by NWTPH-Dx.
Note: If concentrations of TPH-Dx are greater than 50 mg/kg, this is a confirmed release and must be reported to DEQ; this project is then considered a cleanup and use of this form is not appropriate.

Sample ID	Sample Location	Sample Depth	NWTPH-HCID (detect/non-detect)	NWTPH-Dx Conc. (mg/kg)

3. The following information should be ATTACHED as part of this report (list the attachment number assigned for each one):

Attachment Number

____ 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.

____ Sketch of the property that clearly shows the sample locations and depths of all soil and/or water samples collected and identifies each location and sample with an unique sample identification code.

____ Copies of chain-of-custody forms for all soil and water samples collected.
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.

____ Copies of all laboratory data reports. Test methods used, including method reporting limits, must be included.

____ Copies of all receipts or permits related to the disposal of any **product** / **sludge** / **water**, and/or decommissioned **tank** and/or **piping** (circle all in **bold** that apply).

____ Photographs taken at the time of heating oil tank decommissioning and cleanup (not required, but helpful).

"By my signature below, I state that the information contained in this report is true and complete to the best of my knowledge."

Name of person preparing report (please print):_____

Signature:_____ Date:_____

Supervisor License No.:_____ Expiration Date:_____

NOTE: If decommissioning work and report documentation was conducted by the homeowner, on a separate sheet of paper, please describe how you learned how to perform this work.

5. Example of Report Cover Page

HEATING OIL TANK
VOLUNTARY DECOMMISSIONING REPORT

Site Address:
1015 NE Oil St.
Voluntary, OR 97999

Prepared by:
HOT Tank Excavators
2030 NE Tank St.
Steel, OR 97990
(phone) 503-229-5263
(fax) 503-229-6945
(e-mail) hottank@comcast.com

Prepared For:
Joe Homeowner
1015 NE Oil St.
Voluntary, OR 97999

November 2012

6. Example of Report Table of Contents

Table of Contents

7. Example of Report Narrative Discussion

1.0 Introduction

1.1 General

This report details the in-place decommissioning of a 500-gallon, steel heating oil tank and soil sampling activities that took place between Aug. 10 and 14, 2012 at 1015 NE Oil St. in Voluntary, Oregon (see vicinity and site map in Section 6.2). The top of the tank was buried two feet below ground surface and the bottom of the tank was at 6½ feet bgs.

1.2 Site Description

The property is in a residential section of Voluntary, Oregon on the northeast corner of 10th and Oil Street. The property's topography has a 5 percent slope to the north. There are no surface streams on the property. The residence at the site is currently occupied. The heating oil tank is two feet north and 10 feet east of the house's northwest corner.

1.3 Soils and Geology

The first two feet of soil were a darkish brown to black silty topsoil. From two feet to the bottom of the site assessment borings at 7½ feet, the soils were a yellow-brown clayey material. No bedrock was encountered to the bottom of the soil borings.

1.4 Groundwater.

Groundwater was not encountered in the soil assessment borings to 7.5 feet bgs.

2.0 Site Activities

2.1 Standards Used

The American Petroleum Institute Publication 1604, *Removal and Disposal of Used Underground Petroleum Storage Tanks,* was used as a guide in completing this in-place decommissioning.

2.2 HOT Decommissioning

On Aug. 10, 2012, HOT Tank Excavators excavated all the surface soils to uncover the tank's top. The soil was temporarily stored on-site on top of heavy-duty plastic sheeting to prevent possible contamination of surface soils. No visible contamination or odor was present in these soils. Both the fill pipe and vent pipe were removed from the tank. After insuring that the tank was properly inerted, a hole big enough to allow internal inspection was cut into the top of the tank.

Fuel Oil Company of Waste, Oregon, removed 30 gallons of unused fuel oil and another 60 gallons of rinse water from the tank (see content disposal receipts in Section 6.6 (a)). The

waste materials were taken to their processing facility for treatment and/or disposal. After the tank was thoroughly cleaned, an internal inspection was made of the tank, looking for any corrosion holes or other points of obvious structural failure.

NOTE 1: While performing an internal inspection, always insure an adequate supply of fresh air is present in the tank.
NOTE 2: If any corrosion holes of other points of structural failure are noted, soil samples must be taken at these locations of probable maximum soil contamination.

As discussed in more detail in Section 2.3, soil samples were collected on Aug. 11, 2012. After site assessment sample results were obtained from the laboratory on Aug. 14, 2012, it was concluded that no soil cleanup was required and that the decommissioning standards were met. To decommission the tank in-place, a cement slurry was pumped into the tank until all the void space was filled. Since the excavated soil was not contaminated, the site was backfilled and restored to original grade.

Section 6.7 shows some pictures of the above described activities.

NOTE: If the heating oil tank was decommissioned by removal, include a narrative discussion of this activity. Also discuss how and where the tank was disposed of (see 6.6 (b) for an example of a tank disposal receipt).

2.3 Site Assessment Activities

On Aug. 11, 2012 soil samples were collected at the site. Since no areas of tank failure were noted during the internal inspection, site assessment borings were advanced at either end of the tank. See Section 6.3 for sample locations and results. The borings were installed within six inches of each end of the tank. Since visibly contaminated soil was first observed at three feet bgs on the tank's east end, soil sample E-3.0-001 was collected to possibly represent the most contaminated soil at the site. The east soil boring was advanced to one foot below the tank bottom and sample E-7.5-002 was collected. The last sample W-7.5-003 was collected at 7.5 feet bgs on the west end of the tank, where no contaminated soil was observed in the removed soils.

3.0 Sampling Methodology and Analytical Results

Soil sampling was performed in accordance with Oregon Administrative Rule 340-122 -345. Samples were placed in sampling containers supplied by the laboratory. The sample containers were filled to the top with soil to eliminate any air space in the container. The containers were glass with Teflon-lined lids. Samples were placed in an ice chest with ice to keep them cold. A Chain of Custody form was filled out (see Section 6.4).

Sampling results are summarized in Table 1 (see Section 6.1). The results for NWTPH – DX ranged from non-detect on the west end to 45 parts per million (ppm) at 3.0 feet below ground surface at the east end. The contamination at the tank's east end decreased to 25 ppm at 7.5 feet below ground surface.

4.0 Summary

A 500-gallon heating oil tank was decommissioned in-place. The tank was filled with a cement slurry and the excavated soils were used for backfill, since the maximum level of contamination found was NWTPH-Dx of 45 ppm. Three site assessment soil samples were

collected in native soils from alongside and below the tank's bottom, with results of NWTPH-Dx ranging from non-detect to 45 ppm.

5.0 Recommendation

HOT Tank Excavators certifies that the site complies with state heating oil tank voluntary decommissioning rules found in OAR 340 – Division 177 and that no further action is required. We request that DEQ register this voluntary decommissioning site.

8. Example of Report Table of Sample Results

6.0 Attachments

6.1 Table of Soil Sample Results

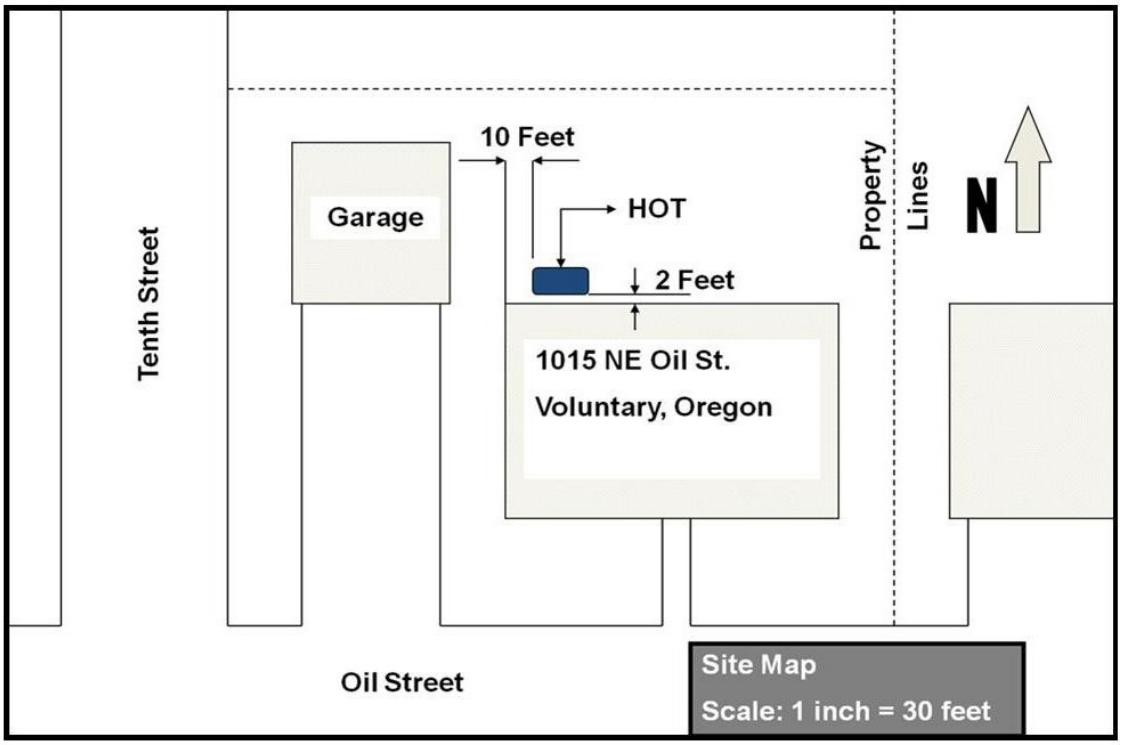
TABLE 1

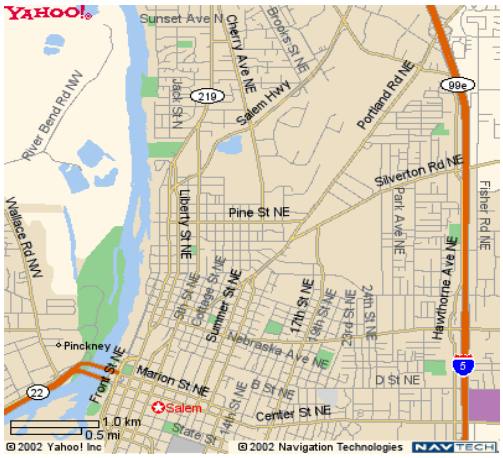
Sample Date	Sample Number	Sample Location	Depth in Feet	Analysis Run	Results in ppm
8-11-03	E-3.0-001	Shallow soils east end of tank	3.0	NWTPH-Dx	45
8-11-03	E-7.5-002	East end of tank	7.5	NWTPH-Dx	25
8-11-03	W-7.5-003	West end of tank	7.5	NWTPH-Dx	Non-detect

NOTE: Add a table showing results of any groundwater sampling if groundwater was encountered in the tank pit excavation or site assessment borings.

9. Example of Site and Vicinity Map

6.2 Vicinity and Site Maps

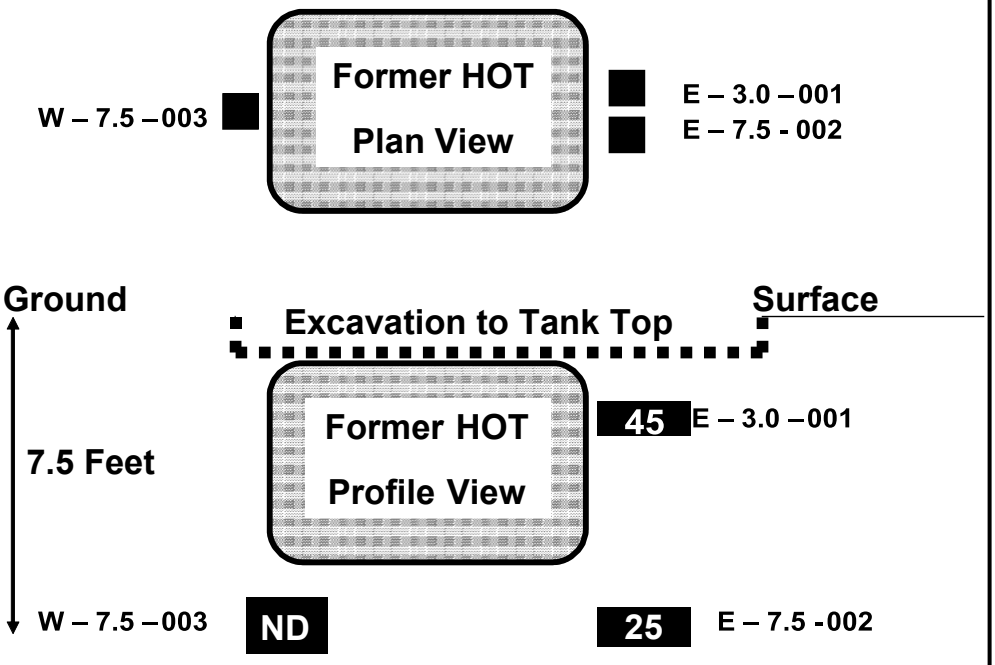




Vicinity Map

10. Example of Sample Locations and Results Sketch

6.3 Sample Locations and Results



A GOOD SAMPLE LOCATION SITE SKETCH HAS:

- **All sample locations shown**
- **Depth of samples shown**
- **Each sample uniquely identified**
- **Sample results shown**
- **Both a plan view and a profile view**

11. Example of Chain of Custody Form

6.4 Chain of Custody Form

[redacted]

CASCADE ENVIRONMENTAL SERVICES INC. Lab Order:
P.O. Box 14128 Portland, Oregon 97214
TEL 503-233-1193 FAX 503-233-2838 www.myoiltank.com info@cascade-environmental.com

CHAIN OF CUSTODY Laboratory: **Environmental Services Laboratory, Inc.** 17400 SW Upper Boones Ferry Rd. Portland, Oregon 97224

PROJECT NO.	PROJECT NAME	PROJECT STREET ADDRESS	PROJECT CITY, STATE
			Portland, OR
COMPANY Cascade Environmental Services	REPORT ATTENTION Don Francis	PHONE NO. 503-233-1193	FAX NO. 503-233-2838
SAMPLES COLLECTED BY	DATE(S) COLLECTED 5-14-3	SPECIAL INSTRUCTIONS	SAMPLES CHILLED TO 4° C? Yes

FIELD ID	TIME COLLECTED	MEDIA	CONTAINER	VOLUME ETC	ANALYSIS REQUIRED	TURNAROUND	LAB ID
SO1-G1-79	1010 am/pm	SOIL	GLASS JAR	4 OUNCE	NWTPH-Dx	24	01
SO2-G2-79	1030 am/pm	5	5	5	5+Btx/PAH	5	02
	am / pm						
	am / pm						
	am / pm						
	am / pm						
	am / pm						
	am / pm						
	am / pm						
	am / pm						
	am / pm						

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	5-14-3 3:45	[signature]	5-14-03 1545
[signature]	5-14-03 1625	[signature]	5-14-03 1625
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

Environmental Services Laboratory will return white copy to Cascade Environmental with lab report and keep yellow copy for files. Cascade retains pink copy.

ATTACHMENT #3

12. Example of Laboratory Report

6.5 Laboratory Results

Pacific Northwest Laboratories
65 Centennial Loop
Eugene, Oregon 97401
(541) 484-4493 Fax: 484-4188

LABORATORY REPORT

PNL REPORT NUMBER: 4240

CLIENT:
CLIENT PROJECT CODE:
SITE LOCATION:

ITEMS ANALYZED: 2 soil samples

DATE SAMPLES COLLECTED: September 23, 2002
DATE ANALYSIS COMPLETED: October 2, 2002

METHOD: **NWTPH-Dx**
Results and Method Reporting Limits (MRL) presented in mg/kg (ppm)
ND = Compound not detected

	Diesel		Lube Oil	
Sample I.D	Result	MRL	Result	MRL
SPD01-P1-4'9"	ND	25	ND	100
SPD01-P2-5'2"	15000		ND	100
LAB BLANK	ND	25	ND	100

Surrogate Recoveries

Sample I.D	Percent	Acceptance Limits
SPD01-P1-4'9"	122	50-150
SPD01-P2-5'2"		
LAB BLANK	116	

Unable to calculate Surrogate Recovery due to analyte concentration

13. Example of Tank Content Disposal Receipt

a. Tank contents disposal receipt

6.6 a. Disposal Receipt for Tank Contents

ATTACHMENT #5

OIL RE-REFINING CO., INC.

Main Office
4150 N. Suttle Rd.
Portland, OR 97217

24 Hour Emergency
(503) 286-8352
1-800-367-8894

701 Bozarth
P.O. Box 1407
Woodland, WA 98674
EPA # WAD 980986012

No. 106313
Date: 3-27-02
Cust. I.D. # 7042
Call Back:

Generator: Cascade Environmental
Name Contact Person 503
2305 SE 50th Portland Or 97206 233-1193
Address City State Zip Phone

Billing Address:
P.O. Box 14128
Portland Or 97214

Consigned To: Fuel Processors EPA #ORD 980975492
Destination: 4150 N Suttle Rd Portland Or 97217
Via Carrier: OARCO
Driver: Rick Truck No.: 0680 Miles Run: Unk

Profile Date: Attached
CK# 5076 P.O.#
Load Ticket # Weight:

Gal./Brl.	Description	Sniffer P/F	CDT/ HCDT	pH	Flash Point	Rate Per Gal./Brl.	Rate Per Hour	Charge
490	Waste Diesel	P				N/C		N/C
586	Emulsified Diesel & water	P		6		.35		205.10
	Flash >200°F Exempt from Regulation							
1	Stop clog					55.00		55.00
	Diesel & Water in same Tanks							
Above materials transported for recycling. EPA #					Total:			260.10

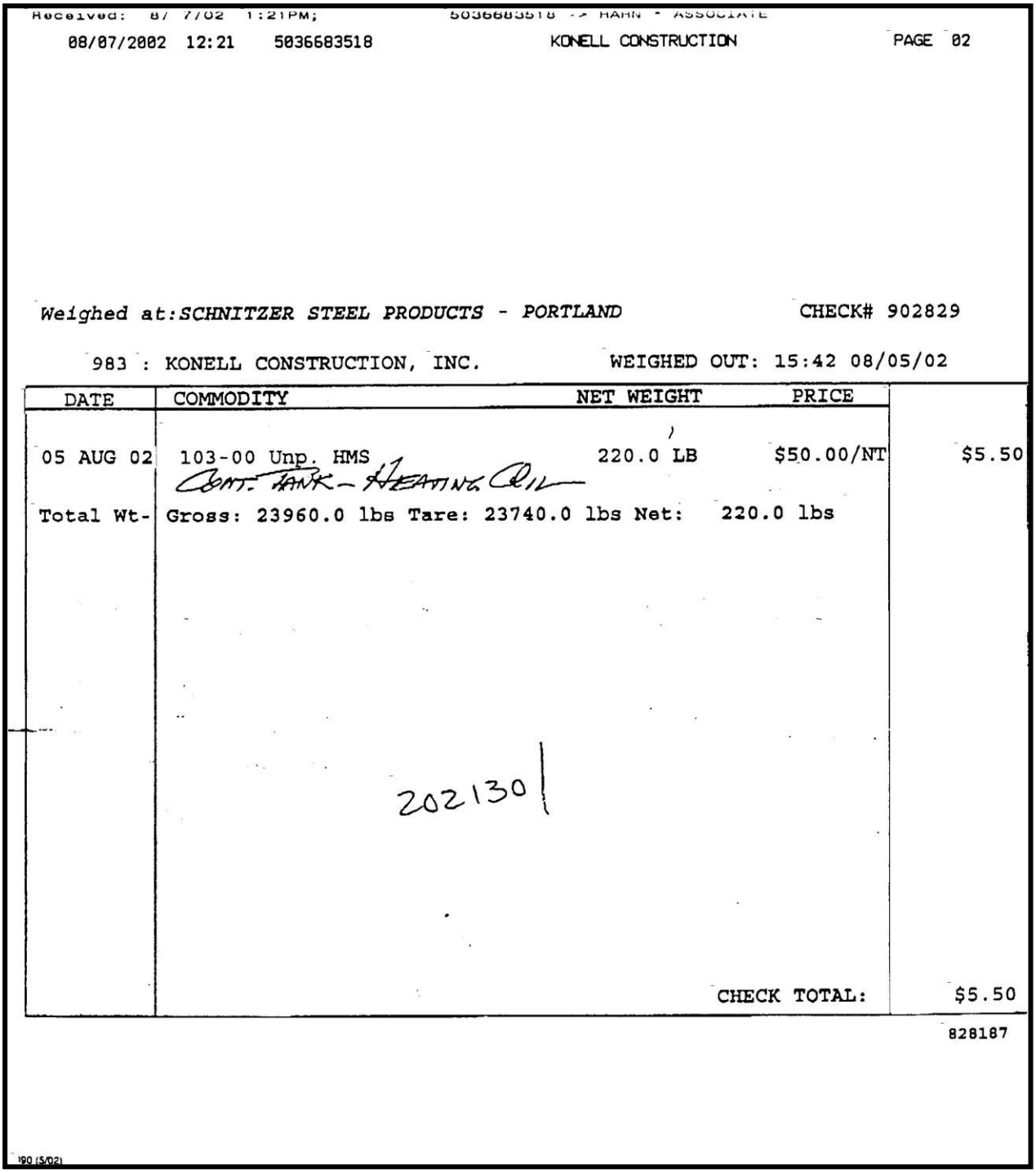
Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminants including, without limitation, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, PCBs at concentrations greater than 2 PPM (or 50 PPM with Manifest), or any other material classified as hazardous waste by 40 CFR part 261, Subparts C and D (implementing the Federal Resource Conservation and Recovery Act) or by any equivalent State hazardous waste or hazardous substance classification program. Should laboratory tests find this waste product not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

Signed: X

Date: 3/27/02

b. Tank disposal receipt (if tank is removed)

6.6 b. Disposal Receipt for Tank (if removed)



Received: 8/ 7/02 1:21PM; 5036683518 -> HAHN - ASSOCIATE

08/07/2002 12:21 5036683518 KONELL CONSTRUCTION PAGE 02

Weighed at:SCHNITZER STEEL PRODUCTS - PORTLAND CHECK# 902829

983 : KONELL CONSTRUCTION, INC. WEIGHED OUT: 15:42 08/05/02

DATE	COMMODITY	NET WEIGHT	PRICE	
05 AUG 02	103-00 Unp. HMS CONT. TANK - HEATING OIL	220.0 LB	$50.00/NT	$5.50
Total Wt-	Gross: 23960.0 lbs Tare: 23740.0 lbs Net: 220.0 lbs			
	202130			
			CHECK TOTAL:	$5.50

828187

190 (5/02)

14. Example of Decommissioning Photos

6.7 Site Photos

(1)

(2)

(3)

(4)