ECOTECH
environmental services
503.493.1040 • fax 503.493.1042 • PO Box 11630 • Portland, OR 97211 • WWW.ECOTECHLLC.COM

Heating Oil Tank Decommissioning Report

1825 SE 7th Avenue
Portland, Oregon

ECOTECH environmental services
503.493.1040 • fax 503.493.1042 • PO Box 11630 • Portland, OR 97211 • WWW.ECOTECHLLC.COM

Date of Report Certification: October 8, 2013

Tank Owner Name:	Michael Hoeye
Tank Site Address:	1825 SE 7th Avenue Portland, Oregon 97214
Owner Mailing Address:	13908 SE Fairoaks Avenue Milwaukie, Oregon 97267
Type of Project:	Decommissioning

EcoTech, LLC 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.

EcoTech, LLC is currently insured as required by OAR 340-163-0050.

Signed By: _____ Date Signed: October 8, 2013

Donald J. Francis, President

Licensed Service Provider Company Name: EcoTech, LLC

Service Provider Number: 23250 Expiration Date: 06/19/2014

State of Oregon Department of Environmental Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

DECOMMISSIONING CHECKLIST

July 3, 2001
Form No. HOT-DecCklst.2.070301

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: Michael Hoeye

Tank Site Address: 1825 SE 7th Avenue
Portland, OR 97214

Please Print or Type

Tank Owner Phone Number: ---

Licensed Service Provider
Company Name: EcoTech, LLC.

23250 License Number

06/19/2014 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: Donald Francis

Signature: _____ Date: October 8, 2013

License Number: 21370 Expires: 1/25/15

State of Oregon Department of Environmental Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

HEATING OIL TANK DECOMMISSIONING REPORT FORM

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: Michael Hoeye

Property Address: 1825 SE 7th Ave.

City/State/Zip Code: Portland, OR 97214 County: Multnomah

Owner Phone Number: ---

Owner Mailing Address (if different): 13908 SE Fairoaks Ave.
Milwaukie, OR 97267

Licensed Heating Oil Tank Service Provider: EcoTech LLC

License Number: 23250 Expiration Date: 6/19/14

Yes [✓] No [ ] A narrative report is attached. (check √ yes or no)

1. What national code of practice was followed during decommissioning?
   API 1604.

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: The tank was cut open and the slurry contents removed and transported to Hillsboro Landfill.

   How much ~~product~~ contaminated slurry was removed? 3.52 ~~gallons~~ tons Sludge? 0 gallons Water? 0 gallons

   Where was the ~~product/sludge/water~~ slurry **recycled?** _____ **disposed?** Hillsboro Landfill

3. 8/16/13 Date tank was **removed** [ ] or decommissioned **in-place** [✓]. **(check √ removed or in-place)**

   Approx. size of tank: 675 gallons

   If tank filled in-place, what type of fill material was used? Perlite amount? 675 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? **(check √ recycled or disposed)**

   Name and location of business N/A

4. What was observed when the tank was removed from the pit or decommissioned in-place? Describe tank condition and excavation, etc.: The tank had moderate pitting with no corrosion holes.

(check √ yes or no)

5. 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.*

6. 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)
	See Attach. 2			

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

Attachment Number

1 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.

2 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.

3 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.

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

4 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): Hillsboro LF receipt Perlite receipt

N/A 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): Don Francis

Signature: [signature] Date: 10/8/13

Supervisor License No.: 21370 Expiration Date: 1/25/15

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.

HEATING OIL TANK DECOMMISSIONING REPORT

Tank Owner: ***Michael Hoeye***

Tank Capacity: 675-gallons
Tank Dimensions: 45-inches (diameter) x 96-inches (length) [note tank is cylindrical]
Depth to Tank Bottom: 60-inches
Tank Orientation: East-West

Decommissioning and Soil Sampling

On June 20, 2013, EcoTech, LLC (EcoTech) arrived on-site at 1825 SE 7th Avenue in Portland, Oregon to initiate decommissioning of the underground heating oil tank (HOT) and collect assessment soil samples from borings completed on the ends of the tank. EcoTech excavated the soil above the HOT, exposed and cut open the top of the tank, and observed that the tank was partially filled with concrete slurry. However, it was evident that the tank was not properly cleaned before the slurry was poured into the tank and the slurry had absorbed the residual fuel and sludge.

EcoTech subsequently collected assessment soil samples from borings B1 and B2, which were completed on the east and west ends of the tank, respectively. See Attachment 2 for sampling locations and depths. Laboratory analysis of the two assessment soil samples indicated non-detect total petroleum hydrocarbon (TPH) concentrations beneath both ends of the HOT.

Note: The non-detect diesel range TPH concentration referenced above (for the east end soil sample) is after it was analyzed by Method NWTPH-Dx with Acid/Silica Gel Cleanup. See laboratory report (Attachment 3).

On August 16, 2013, EcoTech returned to remove the contaminated fill from the tank and complete the HOT decommissioning. EcoTech removed the contaminated slurry, scraped the tank to bare metal, and inspected the tank. The 3.52-tons of contaminated slurry were transported to Hillsboro Landfill for disposal – the disposal receipt to Hillsboro Landfill is presented in Attachment 4. EcoTech completed the decommissioning by filling the HOT to capacity with perlite that was hydrated and compacted in lifts. The native overburden of the HOT was returned to finished grade.

Conclusion

TPH concentrations were not detected in the assessment soil samples and the analytical reporting limits for the samples are below 50-parts per million (ppm). EcoTech certifies that the tank was properly decommissioned in accordance with applicable Oregon Administrative Rules (OARs).

Soil Sampling Protocol

Soil samples were collected from undisturbed material using a direct push-probe sampler (GeoProbe). The soil samples were placed in clean 2- or 4-ounce clear glass jars, compacted by hand using a pair of new, disposable nitrile gloves, sealed with Teflon-lined lids, labeled and placed in a secure, chilled cooler. The soil samples were kept chilled at all times and transported to Apex Laboratories (Apex) in Tigard, Oregon following proper chain-of-custody protocol. Apex is a DEQ Certified (ORELAP) laboratory.

The soil samples were subsequently analyzed for TPH by Method NWTPH-Dx, per the Oregon Department of Environmental Quality. The results of the TPH analysis are expressed in mg/kg, or parts per million (ppm) and denote the quantification of the diesel and heavy oil ranges of petroleum hydrocarbons present within the soil sample analyzed. A laboratory analytical result reported as not detected (ND) indicates that petroleum hydrocarbons (or other constituents analyzed) in the sample, if present, were absent or below the detection limit of the analytical equipment used and/or the analytical method.

Certification Limits

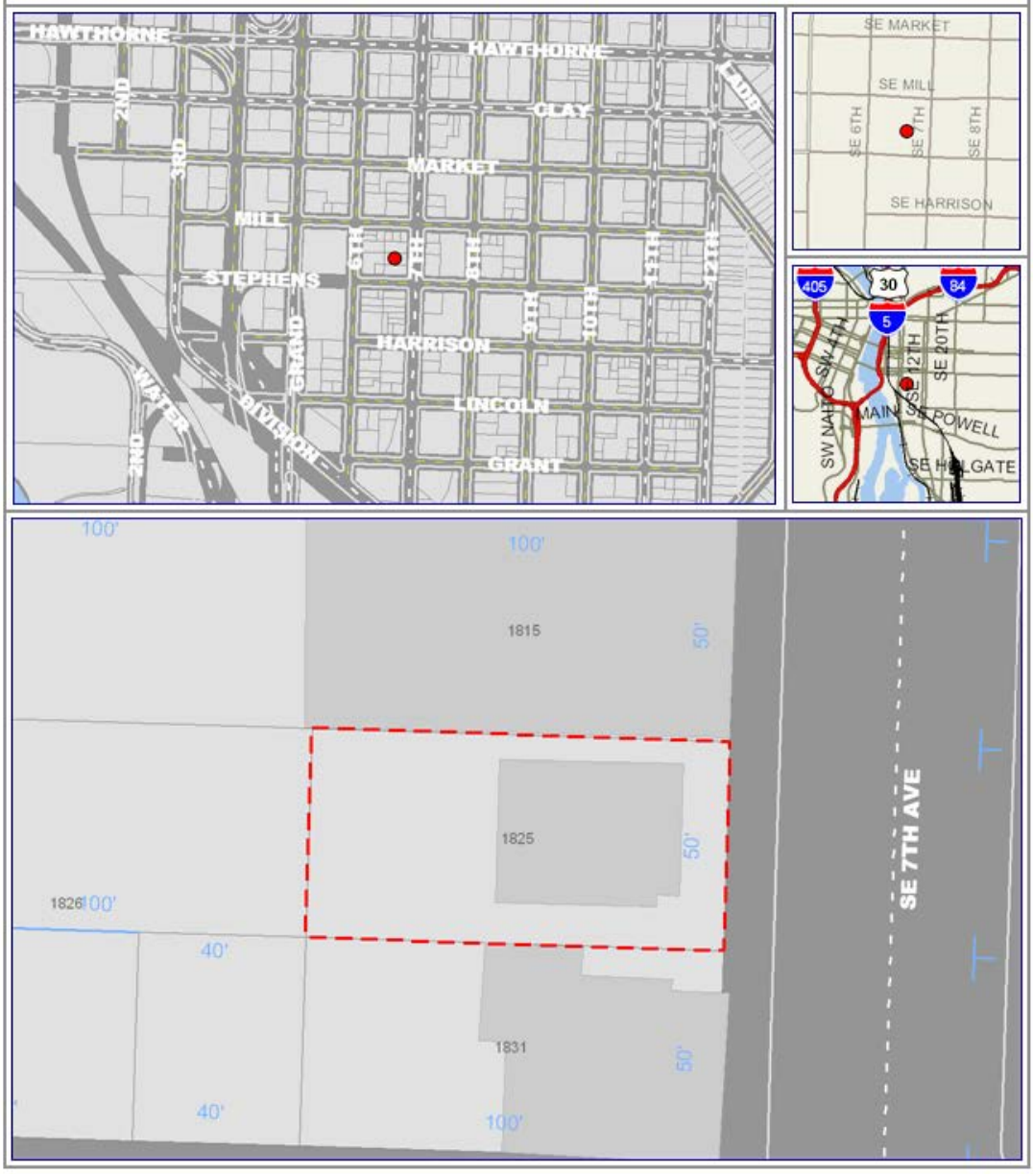
This Certification and the conclusions and recommendations reached from investigative services performed by EcoTech are based only on data provided by others, analytical laboratory results, and observations made during field investigations. The accuracy of these findings should not be considered as scientific certainties, but rather as professional opinion based upon the data and information available during the investigation. EcoTech's work was to determine if the property meets the cleanup and risk standards at the time EcoTech's work was performed. Due to changing regulations, scientific knowledge, health risk assessment techniques, etc., EcoTech makes no representation about safety (health or environmental) and/or fitness of use of this property.

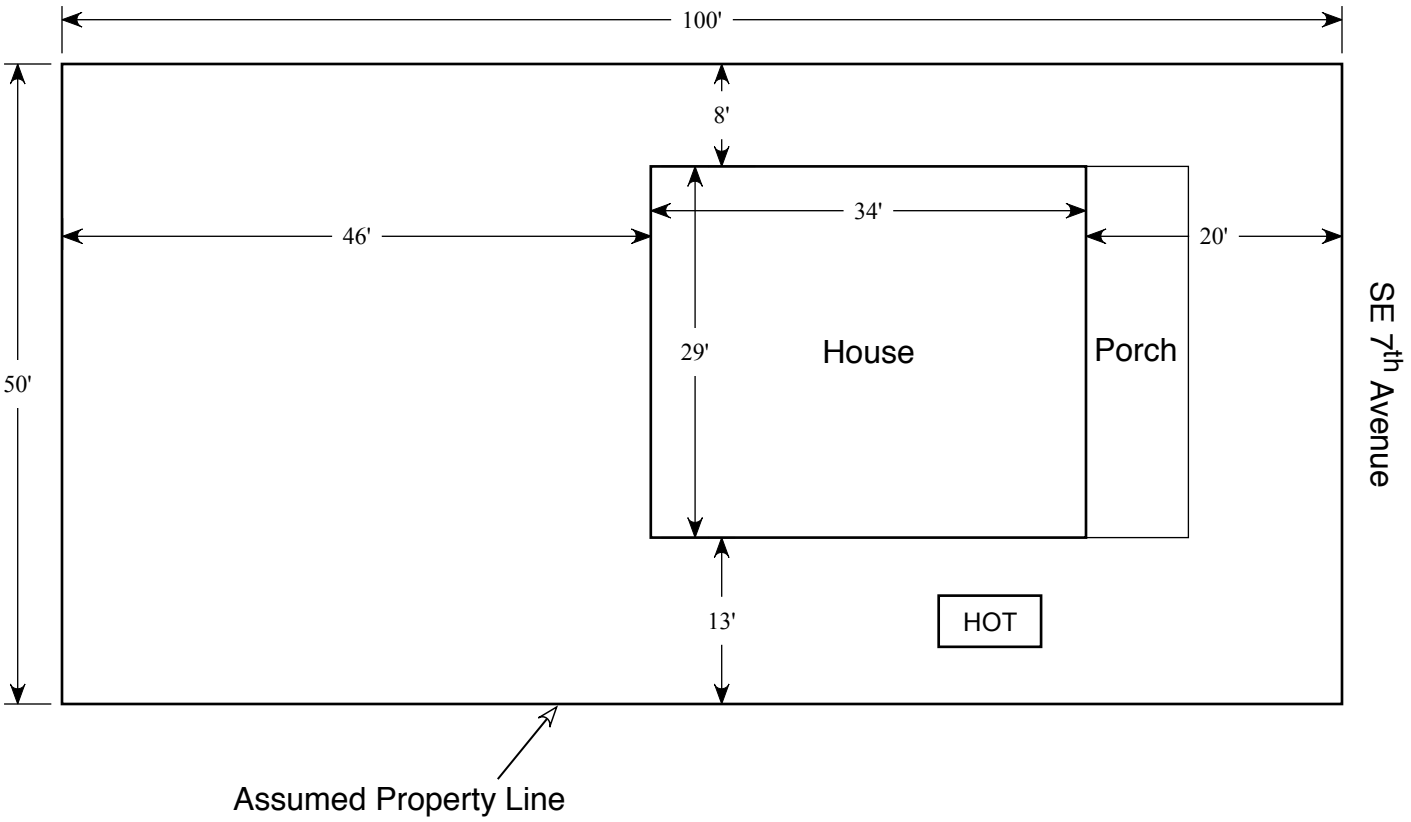
The term "tank" referenced in the accompanying DEQ Decommissioning Checklist means, for this Certification, any underground storage tanks brought to EcoTech's attention by the property owner and/or other interested parties, and/or as discovered by EcoTech prior to completion of field services reported herein.

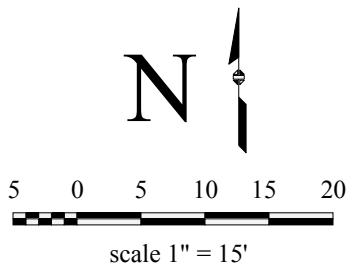
Attachment 1

1825 SE 7th Avenue, Portland, OR

Property & Location







et EcoTech	Site Plan 13-1114	1825 SE 7th Avenue Portland, OR 97214

Attachment 2

DETAIL DIAGRAM & TPH SAMPLE RESULTS TABLE

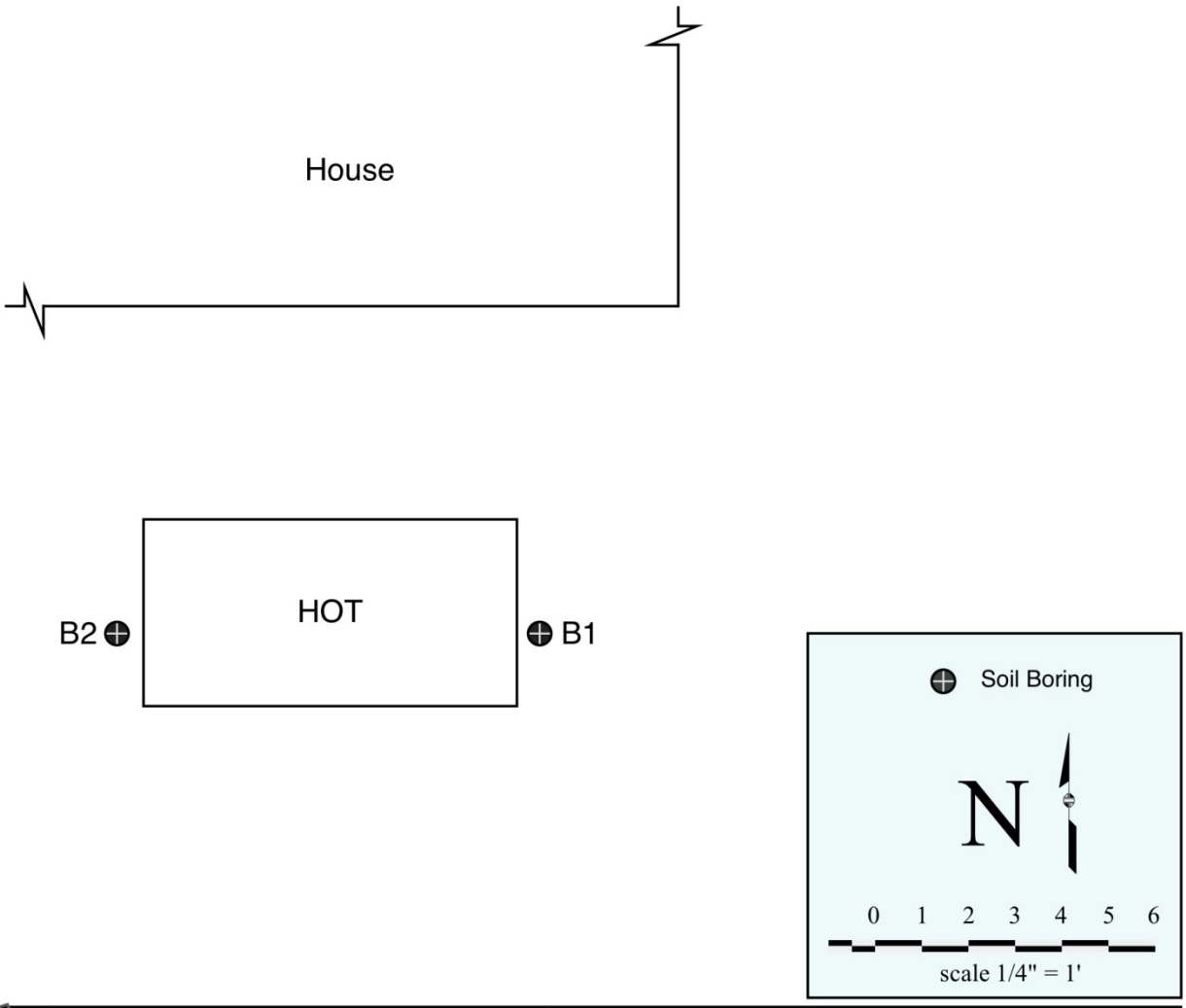


Table: Soil Sample Results - TPH by Method NWTPH-Dx per DEQ, in mg/kg (ppm)

Sample I.D. (1)	Date Collected	Location	TPH (diesel)	TPH (oil)
1E-B1-60-80	6/20/13	0.5-feet east of HOT	ND (2)	ND
2W-B2-60-80	6/20/13	0.5-feet west of HOT	ND	ND

ND = not detected B = boring

- (1) Sample I.D. includes sample number, boring/grab number and sample depth in inches from ground surface.
- (2) Result reflects diesel range TPH concentration after analysis by Method NWTPH-Dx with Acid/Silica Gel Cleanup.

Attachment 3

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, June 27, 2013

Don Francis
EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

RE: 1825 SE 7th Ave/13-001114

Enclosed are the results of analyses for work order A3F0487, which was received by the laboratory on 6/20/2013 at 6:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cwoodcock@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1E-B1-60-80	A3F0487-01	Soil	06/20/13 11:00	06/20/13 18:00
2W-B2-60-80	A3F0487-02	Soil	06/20/13 11:05	06/20/13 18:00

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08

ANALYTICAL SAMPLE RESULTS

Diesel and Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
1E-B1-60-80 (A3F0487-01)			**Matrix: Soil**		**Batch: 3060543**			
Diesel	**85.9**	---	26.3	mg/kg dry	1	06/20/13 22:15	NWTPH-Dx	F-17
Oil	ND	---	52.6	"	"	"	"	F-17
Surrogate: o-Terphenyl (Surr)			*Recovery: 97 %*	*Limits: 50-150 %*	"	"	"	
2W-B2-60-80 (A3F0487-02)			**Matrix: Soil**		**Batch: 3060543**			
Diesel	ND	---	25.4	mg/kg dry	1	06/20/13 22:33	NWTPH-Dx	
Oil	ND	---	50.8	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 84 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Christina M. Woodcock, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

Project/#: **1825 SE 7th Ave/13-001114**

Project Manager: Don Francis

Reported:
06/27/13 16:08

ANALYTICAL SAMPLE RESULTS

Diesel and Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
1E-B1-60-80 (A3F0487-01RE1)			**Matrix: Soil**		**Batch: 3060587**			
Diesel	ND	---	32.9	mg/kg dry	1	06/24/13 11:41	NWTPH-Dx/SG	
Oil	ND	---	65.8	"	"	"	"	
Surrogate: o-Terphenyl (Surr)			*Recovery: 98 %*	*Limits: 50-150 %*	"	"	"	

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

Project/#: **1825 SE 7th Ave/13-001114**

Project Manager: Don Francis

Reported:
06/27/13 16:08

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
1E-B1-60-80 (A3F0487-01)			**Matrix: Soil**		**Batch: 3060544**			
% Solids	**73.6**	---	1.00	% by Weight	1	06/21/13 07:19	Apex SOP	
2W-B2-60-80 (A3F0487-02)			**Matrix: Soil**		**Batch: 3060544**			
% Solids	**73.4**	---	1.00	% by Weight	1	06/21/13 07:19	Apex SOP	

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

Project/#: **1825 SE 7th Ave/13-001114**

Project Manager: Don Francis

Reported:
06/27/13 16:08

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060543 - EPA 3546 (Fuels)							**Soil**					
Blank (3060543-BLK1)					Prepared: 06/20/13 18:33 Analyzed: 06/20/13 21:03							
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (3060543-BS1)					Prepared: 06/20/13 18:33 Analyzed: 06/20/13 21:21							
NWTPH-Dx												
Diesel	112	---	25.0	mg/kg wet	1	125	---	90	70-130%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

Project/#: **1825 SE 7th Ave/13-001114**

Project Manager: Don Francis

Reported:
06/27/13 16:08

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060567 - EPA 3546 (Fuels)							**Soil**					
Blank (3060567-BLK1)					Prepared: 06/21/13 13:54 Analyzed: 06/21/13 22:31							
NWTPH-Dx/SG												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*			*Dilution: 1x*					
LCS (3060567-BS1)					Prepared: 06/21/13 13:54 Analyzed: 06/21/13 22:49							
NWTPH-Dx/SG												
Diesel	120	---	25.0	mg/kg wet	1	125	---	96	70-130%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 106 %*		*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (3060567-DUP1)					Prepared: 06/21/13 13:54 Analyzed: 06/22/13 00:20							
QC Source Sample: 1E-B1-60-80 (A3F0487-01)												
NWTPH-Dx/SG												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	"	"	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 92 %*		*Limits: 50-150 %*			*Dilution: 1x*					

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC
7302 N Richmond Ave
Portland, OR 97217

Project/#: **1825 SE 7th Ave/13-001114**

Project Manager: Don Francis

Reported:
06/27/13 16:08

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060587 - EPA 3546 (Fuels)							**Soil**					
Blank (3060587-BLK1)					Prepared: 06/20/13 18:33 Analyzed: 06/24/13 10:39							
NWTPH-Dx/SG												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (3060587-BS1)					Prepared: 06/20/13 18:33 Analyzed: 06/24/13 11:10							
NWTPH-Dx/SG												
Diesel	115	---	25.0	mg/kg wet	1	125	---	92	70-130%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3060544 - Total Solids (Dry Weight)												**Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08

SAMPLE PREPARATION INFORMATION

Diesel and Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 3060543							
A3F0487-01	Soil	NWTPH-Dx	06/20/13 11:00	06/20/13 19:25	10.33g/5mL	10g/5mL	0.97
A3F0487-02	Soil	NWTPH-Dx	06/20/13 11:05	06/20/13 19:25	10.72g/5mL	10g/5mL	0.93

Diesel and Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 3060587							
A3F0487-01RE1	Soil	NWTPH-Dx/SG	06/20/13 11:00	06/20/13 19:25	10.33g/5mL	10g/5mL	0.97

Apex Laboratories

Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08

Notes and Definitions

Qualifiers:

F-17	No fuel pattern detected. The Diesel result represents carbon range C12 to C24, and the Oil result represents >C24 to C40.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

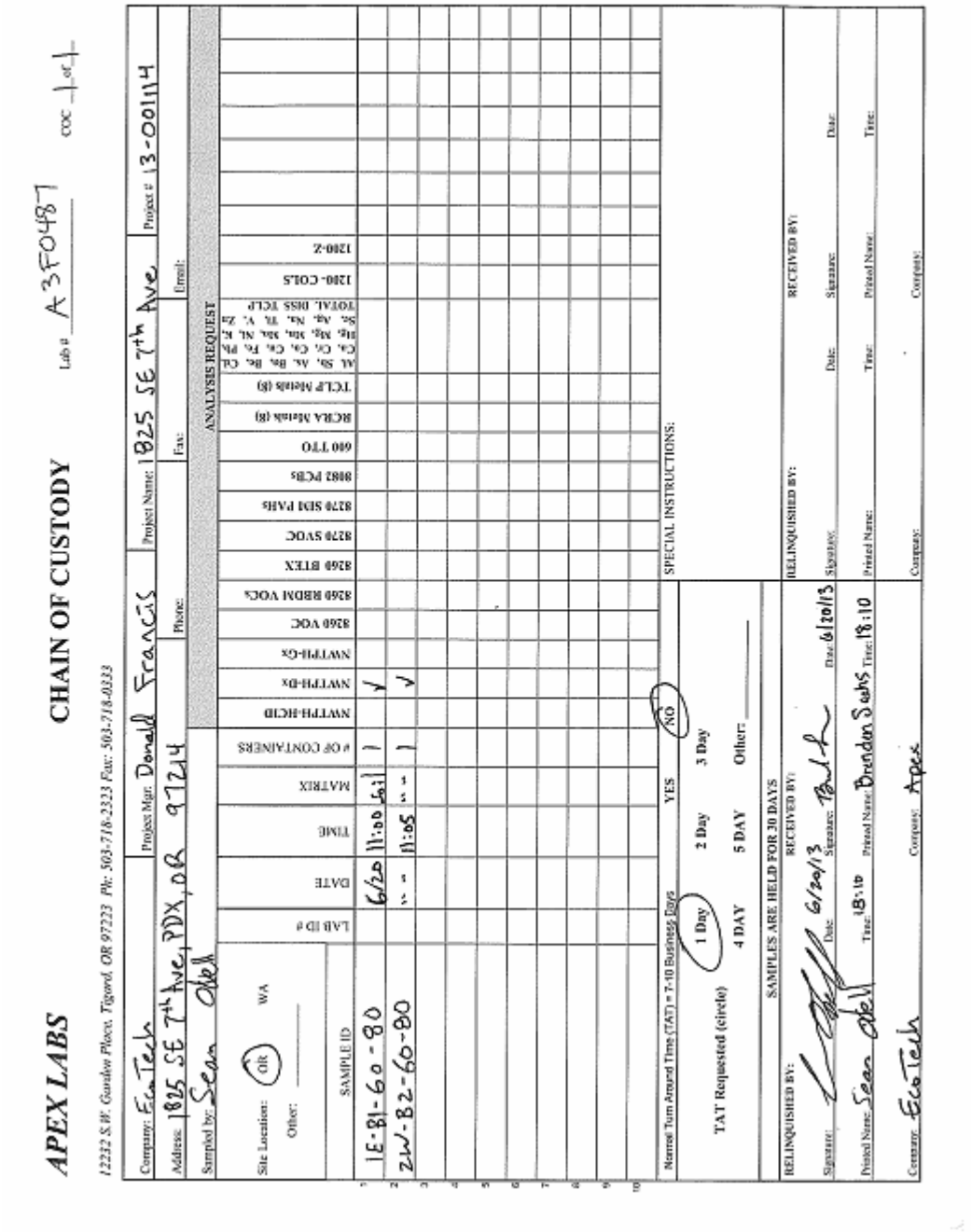
Christina M. Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EcoTech, LLC	Project/#: **1825 SE 7th Ave/13-001114**	
7302 N Richmond Ave		**Reported:**
Portland, OR 97217	Project Manager: Don Francis	06/27/13 16:08



APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

CHAIN OF CUSTODY

Lab # A3F0487 COC 1 of 1

Company: EcoTech | Project Mgr: Donald Francis | Project Name: 1825 SE 7th Ave | Project # 13-001114

Address: 1825 SE 7th Ave, PDX, OR 97214 | Phone: | Fax: | Email:

Sampled by: Sean Odell

Site Location: OR / WA / Other: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	680 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL, DISS TCLP	1200- COLS	1200-Z
1	1E-81-60-80		6/20	11:00	Soil	1		✓												
2	2W-82-60-80		"	11:05	"	1		✓												
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Normal Turn Around Time (TAT) = 7-10 Business Days | YES | NO

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 4 DAY | 5 DAY | Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Date: 6/20/13 Time: 18:10 Printed Name: Sean Odell Company: EcoTech

RECEIVED BY: Signature: Date: 6/20/13 Time: 18:10 Printed Name: Brandon Sachs Company: Apex

RELINQUISHED BY: Signature: Date: 6/20/13 Time: 18:10 Printed Name: Brandon Sachs Company:

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

Apex Laboratories

Christina M. Woodcock

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Christina M. Woodcock, Project Manager

Attachment 4

WASTE MANAGEMENT

Hillsboro Landfill, Inc
3205 SE Minter Bridge
Hillsboro, OR, 97123
Ph: (503)-640-9427

Original
Ticket# 1326596

Customer Name ECOTECHLLC ECOTECH LLC
Ticket Date 08/19/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest na
Destination
PO 1825 SE 7TH AVENUE
Profile 113623OR (PCS)
Generator OR-MICHAEL HOEYE MICHAEL HOEYE

Carrier RIVER CITY ENVIRO
Vehicle# 228
Container
Driver john
Check#
Billing # 0002247
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/19/2013 08:23:56	Inbound_1	jdb		Gross	35740 lb
Out	08/19/2013 08:36:02	Outbound	jdb		Tare	28700 lb
					Net	7040 lb
					Tons	3.52

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-	100	3.52	Tons	29.74		$104.68	MULT-IN
2	13% FEA-13% FEA FE	100		%	13.00		$13.61	MULT-IN

John Doty

Total Tax
Total Ticket $118.29

Driver's Signature

403WM

Shipping Invoice

41637

SUPREME PERLITE COMPANY

Date 8-6-13

4600 N. Suttle Road Ph 503.286.4333
Portland, OR 97217-7720 Fax 503.286.1068
info@perlite.com - www.perlite.com

BILL TO:

1825 SE 7th Ave

CUSTOMER P.O.			SHIPPED VIA	PORTLAND N Y	MULT. CO. N Y	LOADED BY
1825 SE 7th						
Quantity Cubic Feet	No. of Packages Bulk	4 c.f.	PERLITE PRODUCTS		PRICE	AMOUNT
		25	*Horticultural*: Propagation			
			Soil Mix			
			Plug			
			XLP			
			Construction Grade			
			Cryogenic: Light			
			Heavy			
			Industrial: FA BHF			
		lbs.	*Ore:* TH-40 S 12x20			
		lbs.	"C" Bin "B" Bin			
			Bags			
			Pallets Wrap Pallets & Wrap			
			Wrap/Caps PW & Caps			

Signature: TOTAL

Terms:

2%, 20 Days, Net 30
18% Interest Charged Thereafter

Ship To:

Serving the Northwest Since 1954

Perlite Aggregates for Construction, Horticulture & Industry
Member, Perlite Institute