

U5T 3417

UNDERGROUND STORAGE TANK CLOSURE

Rental Service Corp

**3409 Everett Ave
Everett, Wa 98201
Project No: 06-22-0008**

Prepared for

Mr. James Shaffer
PO Box 906
Freeland, WA 98249
360-331-7369

Prepared by

L & R Environmental, LLC
PO Box 48819
Spokane, Washington 99228

June 16, 2011

SUMMARY

We are pleased to report the results of our site assessment at the time of closure of two underground storage tanks (USTs) at Rental Service Corporation located at 3409 Everett Ave, Everett, WA 98201. The property is developed with a John Deere landscaping shop and office with a paved entry in to a plastic pipe storage yard. The property is located in a mix of commercial and residential use.

Two USTs were removed from a single excavation north west of the building on the property, as shown on the Site Plan. The tanks were used to store gasoline and diesel fuel.

The tanks were removed on May 18, 2011 by L & R Environmental using a trackhoe. The tanks were conditioned for removal by the addition over two pounds of dry ice per 100 gallons capacity. After removal the tanks were exported from the site for cleaning and disposal.

Both tanks were of double-wall STIP-3 steel construction. The tanks were each 2,000 gallons capacity. The tops of the tanks were about 36 inches below the ground surface. Upon removal, the tanks were observed to be in very good condition without excessive rust, holes or other defects.

Soils exposed in the tank excavation consisted of backfill pea gravel. Native soil consisted of clay. Groundwater was not encountered in the 13' deep excavation pit.

METHODOLOGY

Soil samples were collected using clean hand tools and were placed in sterilized glass jars with Teflon-sealed lids furnished by the project laboratory. The samples were stored in an iced chest at the site and during transport to the laboratory in order to preserve the volatile fractions within the sample. Each jar was labeled according to location, depth, job time and field personnel. EPA-recommend sample management protocol, including maintenance of chain of custody documentation, was observed during the project.

The soil samples were submitted for laboratory analysis by Northwest Method NWTPH-G for total petroleum hydrocarbons in the gasoline range and EPA Method 8020 for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX), specific compounds within gasoline. Lower detection limits for these methods are on the order of 0.050 parts per million (ppm) in soil. Soil samples were also tested for Northwest Method NWTPH-DX for total petroleum hydrocarbons in the Diesel range. The project laboratory is Environmental Science Corp locate at 12065 Lebanon Rd, Mt Juliet, TN 37122.

This analytical approach is intended to provide a basis for comparing the site environment to regulatory standards offered in the Model Toxics Control Act (MTCA), Chapter 173-340 Washington Administrative Code, and to recommended analyses offered in the October 1992 amended "Guidance for Site Checks and Site Assessments for Underground Storage Tanks," Washington Department of Ecology document 90-52. A total of six soil samples were collected from the tank excavation.

Results of the laboratory analysis indicate that there are no residual hydrocarbon concentrations in the soils at the bottom or sidewalls of the excavation.

LABORATORY RESULTS

Laboratory Results in PPM, NWTPH-G Analysis						
Hazardous Substance	Southside Wall 12 ft	Bottom Diesel 13 ft	Bottom Gas 13 ft	Northside Wall 12 ft	Product Lines 3 ft	Dispensers 2 ft
Benzene	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL
Lead	NA	BDL	BDL	BDL	BDL	BDL
MTBE	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL
NWTPH- Gas with Benzene	BDL	BDL	BDL	BDL	BDL	BDL
NWTPH - Gas without Benzene	BDL	BDL	BDL	BDL	BDL	BDL
NWTPH - Diesel	BDL	14	6.4	BDL	BDL	BDL
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL

CONCLUSIONS

There is no gasoline or diesel contamination in or around the tank excavation pit. All testing meets current Method A Cleanup Standards.

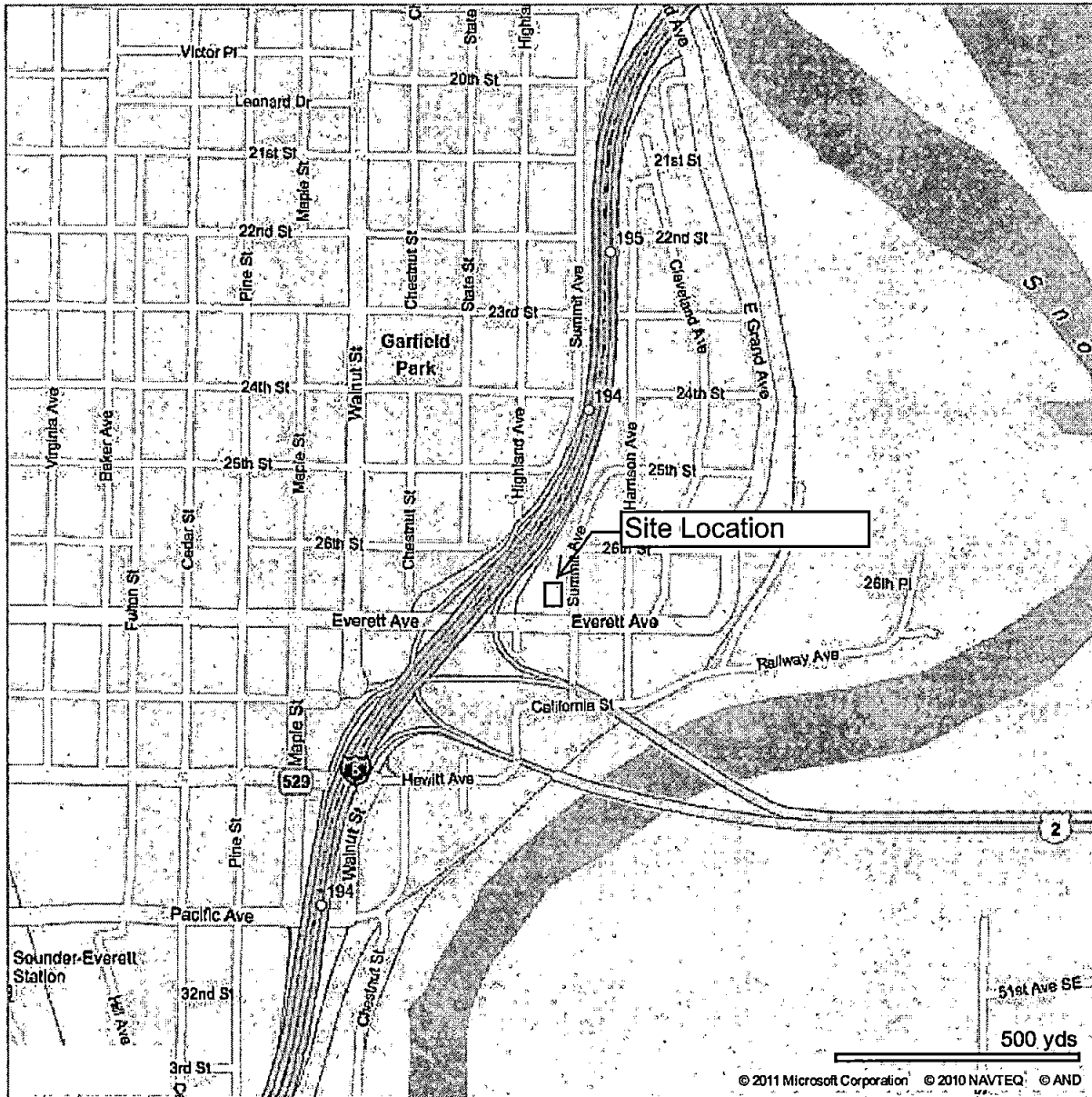
RECOMMENDATIONS

No recommendations site meets State and Federal UST Closure Process.

Respectfully submitted,

Regan Hardy
Principal

Attachments: Vicinity Map
Site Plan
Laboratory Reports
Assessment Checklist





Tank Excavation

Everett Ave



UNDERGROUND STORAGE TANK 30 DAY NOTICE

See back of form for instructions

FOR OFFICE USE ONLY	
Site ID #:	_____
FS ID #:	_____

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Both

Site Information

Owner Information

(This form will be returned to this address)

UBI Number 3417

UST Owner/Operator Jim Shaffer

Site/Business Name Rental Service Corp
Street

Mailing Address _____
Street

Site Address 3409 Everett Ave

P.O. Box 906
P.O. Box

City/State Everett, WA

City/State Freeland, WA

Zip Code 98201 Telephone (425) 259-6108

Zip Code 98249 Telephone (425) 528-6370

Tank Installation Company (if known). Fill out this section ONLY if tanks are being installed.

Service Company _____ Contact Name _____

Address _____
Street P.O. Box
City State Zip Code Telephone () _____

Tank Permanent Closure Company (if known). Fill out this section ONLY if tanks are being closed.

Service Company L & R Environmental Contact Name Bryan Hardy

Address _____
Street P.O. Box
Spokane WA 99228 Telephone (509) 313-1276
City State Zip Code

Tank Closure Information

Fill out this section ONLY if tanks are being closed.

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date Tank Last Used	Is There Product In the Tank (Yes/No)	If No, Date Tank Was Pumped
60284	5/9/11	2,000	W.L. Gas	7/1/2005	NO	7/1/2005
6417	5/9/11	2,000	Diesel	7/1/2005	NO	7/1/2005

Tank Installation Information

Fill out this section ONLY if tanks are being installed.

Tank ID	Approx. Install Date



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY	
Site ID #:	_____
Facility Site ID #:	_____

Please ☒ the appropriate box(es)

☐ Temporary Tank Closure ☐ Change-In-Service ☒ Permanent Tank Closure ☐ Site Check/Site Assessment

Site Information

Site ID Number 3417
(Available from Ecology if the tanks are registered)
Site/Business Name Rental Service Corp
Street
Site Address 3409 Everett, Ave, Everett
City/State Everett, WA 98201
Zip Code 98201 Telephone (425) 259-6008

Owner Information

UST Owner/Operator Jim Shaffer
Mailing Address _____
Street
P.O. Box
City/State Freeland, WA
Zip Code 98249 Telephone (425) 508-6370

Owners Signature _____

Tank Closure/Change-In-Service Company

Service Company L & R Environmental
Certified Supervisor Bryan Hardy Decommissioning Certification No. 5276957-42
Supervisor's Signature Bryan Hardy Date 4/11/2011
Address _____
Street
City Spokane State WA Zip Code 99228 Telephone (208) 313-1276

Site Check/Site Assessor

Certified Site Assessor Bryan Hardy
Address _____
Street
City Spokane State WA Zip Code 99228 Telephone (208) 313-1276

Tank Information

Contamination Present at the Time of Closure

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

☐ Yes ☐ No ☐ Unknown
Check unknown if no obvious
contamination was observed
and sample results have not
yet been received from
analytical lab.

☐ Yes ☐ No
If contamination is present,
has the release been reported
to the appropriate regional
office?

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY

Site #: 3417

Facility Site ID #: 41573749

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 3417

Site/Business Name: Rental Service Corporation

Site Address: 3409 Everett Ave Telephone: (425) 259-6168

Everett
City

Street

WA
State

98201
Zip Code

TANK INFORMATION

Tank ID No.

Tank Capacity

Substance Stored

6284

2,000

Diesel

6417

2,000

Unleaded Gasoline

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ☐ Investigate suspected release due to on-site environmental contamination.
- ☐ Investigate suspected release due to off-site environmental contamination.
- ☐ Extend temporary closure of UST system for more than 12 months.
- ☐ UST system undergoing change-in-service.
- ☒ UST system permanently closed with tank removed.
- ☐ Abandoned tank containing product.
- ☐ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ☐ Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on a vicinity map.	R.H	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	X	
3. A summary of UST system data is provided. (see Section 3.1.)	X	
4. The soils characteristics at the UST site are described. (see Section 5.2)	X	
5. Is there any apparent groundwater in the tank excavation?		X
6. A brief description of the surrounding land use is provided. (see Section 3.1)	X	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	X	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	X	
- groundwater samples distinguished from soil samples (if applicable)	NA	
- samples collected from stockpiled excavated soil	N/A	
- tank and piping locations and limits of excavation pit	X	
- adjacent structures and streets	X	
- approximate locations of any on-site and nearby utilities	NA	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	X	
11. Any factors that may have compromised the quality of the data or validity of the results are described.		X
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.		X

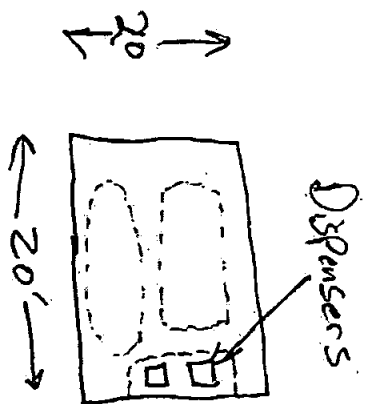
SITE ASSESSOR INFORMATION

Regan Hardy L & R Environmental
 Person registered with Ecology Firm Affiliated with
 Business Address: P.O. Box 48819 Telephone: (208) 313-1276
Spokane WA 99228
 City State Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

6/22/11 Regan Hardy
 Date Signature of Person Registered with Ecology

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.



Building

Street



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

Report Summary

Tuesday May 31, 2011

Report Number: L516860

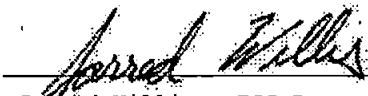
Samples Received: 05/19/11

Client Project:

Description: Rental Service Corporation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation

Sample ID : SOUTHSIDE WALL 12 FT

Collected By : Ryan Hardy
Collection Date : 05/18/11 05:33

ESC Sample # : L516860-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.59	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a, a, a-Trifluorotoluene (FID)	94.7		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0059	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.029	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.018	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0059	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	112.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	114.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	BDL	4.7	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	12.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	79.5		% Rec.	NWTPHDX	05/28/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 05/31/11 10:18 Printed: 05/31/11 10:19



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REPORT OF ANALYSIS

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation

ESC Sample # : L516860-02

Sample ID : BOTTOM DIESEL 13 FT

Site ID :

Collected By : Ryan Hardy
Collection Date : 05/18/11 05:34

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	98.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.51	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a, a, a-Trifluorotoluene (FID)	94.7		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0051	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.026	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0051	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.015	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0051	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	116.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	113.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	14.	4.1	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	10.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	61.6		% Rec.	NWTPHDX	05/28/11	1

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BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation
Sample ID : BOTTOM GAS 13 FT
Collected By : Ryan Hardy
Collection Date : 05/18/11 05:35

ESC Sample # : L516860-03

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	98.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.51	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a, a, a-Trifluorotoluene (FID)	94.5		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0051	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.026	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0051	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.015	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0051	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	116.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	113.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	6.4	4.1	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	10.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	65.4		% Rec.	NWTPHDX	05/28/11	1

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REPORT OF ANALYSIS

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation
Sample ID : NORTHSIDE WALL 12 FT
Collected By : Ryan Hardy
Collection Date : 05/18/11 05:36

ESC Sample # : L516860-04

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.52	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a, a, a-Trifluorotoluene (FID)	93.9		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0052	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.026	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0052	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.016	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0052	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	117.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	112.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	BDL	4.1	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	10.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	68.3		% Rec.	NWTPHDX	05/28/11	1

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REPORT OF ANALYSIS

Ryan Hardy
L & R Environmental Land Farms
PO Box 65
Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation
Sample ID : PRODUCT LINE 1 3 FT
Collected By : Ryan Hardy
Collection Date : 05/18/11 05:37

ESC Sample # : L516860-05

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.52	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a,a,a-Trifluorotoluene (FID)	94.0		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0052	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.026	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0052	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.016	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0052	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	118.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	112.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	BDL	4.2	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	10.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	70.4		% Rec.	NWTPHDX	05/28/11	1

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Kuna, ID 83634

May 31, 2011

Date Received : May 19, 2011
Description : Rental Service Corporation
Sample ID : PRODUCT LINE 2 2 FT
Collected By : Ryan Hardy
Collection Date : 05/18/11 05:59

ESC Sample # : L516860-06

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.		%	2540G	05/26/11	1
Gasoline Range Organics-NWTPH	BDL	0.53	mg/kg	NWTPHGX	05/20/11	5
Surrogate Recovery						
a, a, a-Trifluorotoluene (FID)	93.9		% Rec.	NWTPHGX	05/20/11	5
Benzene	BDL	0.0053	mg/kg	8260B	05/20/11	5
Toluene	BDL	0.026	mg/kg	8260B	05/20/11	5
Ethylbenzene	BDL	0.0053	mg/kg	8260B	05/20/11	5
Total Xylenes	BDL	0.016	mg/kg	8260B	05/20/11	5
Methyl tert-butyl ether	BDL	0.0053	mg/kg	8260B	05/20/11	5
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	05/20/11	5
Dibromofluoromethane	118.		% Rec.	8260B	05/20/11	5
4-Bromofluorobenzene	112.		% Rec.	8260B	05/20/11	5
Diesel Range Organics (DRO)	BDL	4.2	mg/kg	NWTPHDX	05/28/11	1
Residual Range Organics (RRO)	BDL	11.	mg/kg	NWTPHDX	05/28/11	1
Surrogate Recovery						
o-Terphenyl	64.8		% Rec.	NWTPHDX	05/28/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 05/31/11 10:18 Printed: 05/31/11 10:19

Summary of Remarks For Samples Printed
05/31/11 at 10:19:22

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L516860-01 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18
Sample: L516860-02 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18
Sample: L516860-03 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18
Sample: L516860-04 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18
Sample: L516860-05 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18
Sample: L516860-06 Account: LRENVRIID Received: 05/19/11 09:00 Due Date: 05/31/11 00:00 RPT Date: 05/31/11 10:18



YOUR LAB OF CHOICE

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Ryan Hardy
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Kuna, ID 83634

Quality Assurance Report
Level II

L516860

12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

May 31, 2011

Analyte	Result	Units	Laboratory Blank % Rec	Limit	Batch	Date Analyzed
Benzene	< .001	mg/kg			WG536604	05/20/11 07:24
Ethylbenzene	< .001	mg/kg			WG536604	05/20/11 07:24
Methyl tert-butyl ether	< .001	mg/kg			WG536604	05/20/11 07:24
Toluene	< .005	mg/kg			WG536604	05/20/11 07:24
Total Xylenes	< .003	mg/kg			WG536604	05/20/11 07:24
4-Bromofluorobenzene		% Rec.	114.4	59-140	WG536604	05/20/11 07:24
Dibromofluoromethane		% Rec.	110.5	63-139	WG536604	05/20/11 07:24
Toluene-d8		% Rec.	104.9	84-116	WG536604	05/20/11 07:24
Gasoline Range Organics-NWTPH	< .1	mg/kg			WG536522	05/19/11 17:45
a,a,a-Trifluorotoluene (FID)		% Rec.	95.14	59-128	WG536522	05/19/11 17:45
Total Solids	< .1	%			WG537147	05/26/11 09:33
Diesel Range Organics (DRO)	< 4	ppm			WG536627	05/27/11 23:44
Residual Range Organics (RRO)	< 10	ppm			WG536627	05/27/11 23:44
o-Terphenyl		% Rec.	74.22	50-150	WG536627	05/27/11 23:44

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	71.0	72.4	1.83	5	L516878-03	WG537147

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	.025	0.0217	86.7	65-128	WG536604
Ethylbenzene	mg/kg	.025	0.0223	89.2	74-128	WG536604
Methyl tert-butyl ether	mg/kg	.025	0.0231	92.4	44-148	WG536604
Toluene	mg/kg	.025	0.0222	88.9	70-120	WG536604
Total Xylenes	mg/kg	.075	0.0668	89.1	74-127	WG536604
4-Bromofluorobenzene				106.8	59-140	WG536604
Dibromofluoromethane				110.7	63-139	WG536604
Toluene-d8				105.8	84-116	WG536604
Gasoline Range Organics-NWTPH	mg/kg	5.5	5.13	93.2	67-135	WG536522
a,a,a-Trifluorotoluene (FID)				100.6	59-128	WG536522
Total Solids	%	50	50.0	100.	85-155	WG537147
Diesel Range Organics (DRO)	mg/kg	30	29.2	97.2	50-150	WG536627
Residual Range Organics (RRO)	mg/kg	30	25.0	83.3	50-150	WG536627
o-Terphenyl				73.33	50-150	WG536627

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec	%Rec				
Benzene	mg/kg	0.0221	0.0217	88.0		65-128	1.92	20	WG536604
Ethylbenzene	mg/kg	0.0240	0.0223	96.0		74-128	7.30	20	WG536604
Methyl tert-butyl ether	mg/kg	0.0225	0.0231	90.0		44-148	2.72	20	WG536604
Toluene	mg/kg	0.0232	0.0222	93.0		70-120	4.12	20	WG536604
Total Xylenes	mg/kg	0.0723	0.0668	96.0		74-127	7.89	20	WG536604
4-Bromofluorobenzene				111.4		59-140			WG536604
Dibromofluoromethane				108.9		63-139			WG536604
Toluene-d8				105.7		84-116			WG536604
Gasoline Range Organics-NWTPH	mg/kg	4.55	5.13	83.0		67-135	11.9	20	WG536522
a,a,a-Trifluorotoluene(FID)				99.96		59-128			WG536522
Diesel Range Organics (DRO)	mg/kg	31.4	29.2	105.		50-150	7.53	20	WG536627
Residual Range Organics (RRO)	mg/kg	28.3	25.0	94.0		50-150	12.4	20	WG536627
o-Terphenyl				81.12		50-150			WG536627

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzene	mg/kg	0.121	0	.025	97.2	16-143	L516813-06	WG536604
Ethylbenzene	mg/kg	0.131	0	.025	105.	12-137	L516813-06	WG536604
Methyl tert-butyl ether	mg/kg	0.123	0	.025	98.1	21-157	L516813-06	WG536604
Toluene	mg/kg	0.124	0	.025	99.0	12-136	L516813-06	WG536604
Total Xylenes	mg/kg	0.391	0	.075	104.	10-138	L516813-06	WG536604
4-Bromofluorobenzene					108.5	59-140		WG536604
Dibromofluoromethane					110.7	63-139		WG536604
Toluene-d8					104.4	84-116		WG536604

Gasoline Range Organics-NWTPH	mg/kg	20.2	0.0776	5.5	73.1	55-109	L516698-01	WG536522
a,a,a-Trifluorotoluene(FID)					97.34	59-128		WG536522
Diesel Range Organics (DRO)	mg/kg	31.8	0	30	106.	50-150	L516860-01	WG536627
Residual Range Organics (RRO)	mg/kg	28.0	0	30	93.5	50-150	L516860-01	WG536627
o-Terphenyl					76.55	50-150		WG536627

Analyte	Units	MSD	Matrix Spike		%Rec	Limit	RPD	Limit	Ref Samp	Batch
			Ref	Duplicate						
Benzene	mg/kg	0.107	0.121	85.5		16-143	12.8	31	L516813-06	WG536604
Ethylbenzene	mg/kg	0.114	0.131	91.4		12-137	13.7	36	L516813-06	WG536604
Methyl tert-butyl ether	mg/kg	0.113	0.123	90.1		21-157	8.54	31	L516813-06	WG536604
Toluene	mg/kg	0.112	0.124	89.6		12-136	9.97	32	L516813-06	WG536604
Total Xylenes	mg/kg	0.346	0.391	92.2		10-138	12.3	36	L516813-06	WG536604
4-Bromofluorobenzene				109.6		59-140				WG536604
Dibromofluoromethane				107.4		63-139				WG536604
Toluene-d8				105.3		84-116				WG536604

Gasoline Range Organics-NWTPH	mg/kg	21.2	20.2	76.9		55-109	4.97	20	L516698-01	WG536522
a,a,a-Trifluorotoluene(FID)				98.39		59-128				WG536522

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Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Diesel Range Organics (DRO)	mg/kg	36.2	31.8	121.	50-150	13.1	20	L516860-01	WG536627
Residual Range Organics (RRO)	mg/kg	29.8	28.0	99.5	50-150	6.21	20	L516860-01	WG536627
o-Terphenyl				91.33	50-150				WG536627

Batch number /Run number / Sample number cross reference

WG536604: R1695629: L516860-01 02 03 04 05 06
WG536529: R1696590: L516860-01 02 03 04 05 06
WG536522: R1696969: L516860-01 02 03 04 05 06
WG537147: R1701270: L516860-01 02 03 04 05 06
WG536627: R1704089: L516860-01 02 03 04 05 06

* * Calculations are performed prior to rounding of reported values.

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits; the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.