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Prepared for:

City of Woodburn c/o Curtis Stultz, Public Works Operations Director 202 Young Street Woodburn, Oregon 97071

&

Oregon Department of Environmental Quality
Northwest Region
Underground Storage Tank Program
700 NE Multnomah Street, Suite 600
Portland, Oregon 97232

April 30, 2021

Prepared by:

Soil Solutions Environmental Services, Inc. 3540 Southeast 28th Avenue Portland, Oregon 97202

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1.0 INTRODUCTION

This report summarizes the activities conducted by Soil Solutions Environmental Services, Inc. (SSES) at 150 Newberg Highway in Woodburn, Oregon (site). Site activities included the decommissioning by removal of a 1,700-gallon commercial underground storage tank (UST); removal of petroleum contaminated soil; and soil and groundwater sampling and analysis. The UST was associated with the standby diesel generator for the City of Woodburn Mill Creek Wastewater Pump Station. SSES provided Oregon Department of Environmental Quality (DEQ) licensed supervisor oversight on behalf of R.L. Reimers Construction regarding the UST decommission as well as oversight of soil and groundwater sampling. This report describes our activities and summarizes the results of the work.

2.0 SITE DESCRIPTION

As shown on the Vicinity Map, Figure 1, the site is located in a suburban area of Woodburn, Oregon in Marion County. As shown on the Site Map, Figure 2, the site is located south of Newberg Highway, west of North Front Street, and north and east of Saint Luke's Cemetery. Drinking water at the site is supplied by the City of Woodburn. The UST was located to the northwest of the pump building onsite.

The site gently slopes west and southwest towards Mill Creek, located onsite and approximately 65-ft southwest of the UST area. The surrounding area slopes to the north-northeast, also draining to Mill Creek, a tributary of the Pudding River. According to the United States Geological Survey Topographic 7.5-minute map for the Woodburn, Oregon quadrangle, the site lies at an elevation of approximately 155 to 170-feet above mean sea level. The site is located in township 1S range 1E section 8 of the Willamette Meridian. O'Connor et al. (2001) maps the surface geology of the site as Quaternary-aged fine-grained sediments of the Missoula Flood Formation. Conlon et al. (2005) indicate deep, regional groundwater in the vicinity of the site is typically present 20 to 60-ft below ground surface (bgs). Conlon et al. (2005) also indicate groundwater is typically present near land surface in the Central Willamette Basin outside of the Willamette and Molalla River flood plains. Shallow groundwater was encountered from 4 to 7-ft bgs during site activities.

3.0 FIELD ACTIVITIES

Field activities were completed between February 26 and March 10, 2021. Photographs of field activities are included in Appendix A and disposal receipts are included in Appendix C. Activities included the decommissioning by removal of a 1,700-gallon diesel UST; removal of petroleum contaminated soil; and collection and analysis of soil and groundwater samples. Gravel backfill material was encountered in the UST excavation along with brown and gray clay loam. Site features and sample locations are shown on Figure 2. All depths are measured from the ground surface at the tank. All equipment was decontaminated between sampling locations. New nitrile gloves were donned by the sampler prior to each sample collected. Soil and groundwater samples collected during field activities were placed in laboratory-supplied clean glass jars or bottles, labeled, and placed in a cooler with ice.



3.1 Tank Decommissioning

On February 26, 2021, R.L. Reimers Construction uncovered a portion of the tank and cut it open. The tank was found to contain approximately 783 gallons of fuel that was transferred to an above ground storage tank (AST) for future use onsite. Subsequently, the interior of the tank was thoroughly pressure-washed using approximately 10 gallons of rinsate and the remaining trace tank contents were transported to the SSES equipment yard for temporary storage and then transported for recycling, in bulk, by Oil Re-Refining Company (ORRCO). Under SSES oversight, the entire tank and associated piping were removed and disposed by R.L. Reimers Construction. Petroleum-contaminated soil (PCS) was removed to a depth of approximately 9.6-ft bgs and was stockpiled on plastic for temporary storage outside the fence on the northwest side of the site. The UST measured 12-ft in length and 5.0-ft in diameter for a capacity of 1,700 gallons.

On February 26, 2021, SSES collected seven soil grab samples, designated SG1 to SG7, from around the UST. Samples SG1 and SG2 were collected at a depth of 9.6-ft bgs from approximately 1-ft below the west and east tank ends, respectively. Soil grab samples SG3 to SG6 were collected at a depth of 7.0-ft bgs from the north, south, east, and west excavation sidewalls, respectively. SG7 was collected from the spoils pile located outside the fence on the northwest side of the site.

3.2 Additional Site Assessment Activities

On March 1, 2021, SSES collected one groundwater sample, WG8@5, from the groundwater that had entered the excavation, filling the excavation with water to approximately 4-ft bgs. WG8@5 was collected from a depth of approximately 5-ft bgs. An estimated 1,000 gallons of impacted groundwater was removed from the excavation by another contractor and disposed in a batch discharge into the infiltration well on site. Permission for this discharge was provided by the City of Woodburn.

On March 5, 2021, SSES collected two soil grab samples, SG9 and SG10, from the southeastern corner of the excavation after additional PCS had been removed to expose previously unexposed locations. Sample SG9 was collected at a depth of 7.0-ft bgs from the southeastern excavation sidewall near the western corner of the pump building. Sample SG10 was collected at a depth of 9.6-ft bgs from the bottom of the excavation near the western corner of the pump building. Approximately 59.96 tons of PCS was placed in a drop box onsite before being transported to Hillsboro Landfill for DEQ approved disposal.

On March 10, 2021, SSES collected one groundwater sample, WG11@4, from the groundwater that had recharged and entered the excavation. WG11@4 was collected approximately 4-ft bgs.

Following receipt of all laboratory reports, the former tank excavation was backfilled with gravel by R.L. Reimers Construction and was restored to grade. Photographs of field activities are included in Appendix A.



4.0 ANALYTICAL RESULTS

Samples were transported under chain of custody documentation to Friedman & Bruya, Inc. laboratory in Seattle, Washington. Laboratory analysis of soil and groundwater included diesel and residual range oil using Northwest Total Petroleum Hydrocarbons Diesel Analysis (NWTPH-Dx); and benzene, toluene, ethylbenzene, and xylenes (BTEX) using Environmental Protection Agency (EPA) Method 8021B.

Diesel and heavy oil were detected in soil at a maximum concentration of 810 ppm at a depth of 7.0-ft bgs in sample SG4@7.0'; however, this sample location was removed from the site during excavation. After contaminated soil was removed, diesel and heavy oil were detected at a maximum concentration of 130 ppm in soil at a depth of 9.6-ft bgs in sample SG10@9.6'. Diesel and heavy oil were not detected above laboratory reporting limits in any other sample remaining onsite indicating the extent of soil contamination is delineated to a small location in the southeastern corner of the former tank area. The estimated extent of contaminated soil is shown on Figure 2.

Diesel and heavy oil were detected in groundwater at a maximum concentration of 270 ppb in sample WG8@5, collected from the groundwater in the UST excavation. This sample was sent for additional BTEX analysis. BTEX was detected above laboratory reporting limits; however, concentrations of contaminants of concern in toluene, ethylbenzene, and total xylenes were low. Following contaminated soil removal and pumping and disposal of groundwater from the excavation, a sample WG11@4' showed no impact from diesel and heavy oil.

5.0 SOIL MATRIX CLEANUP EVALUATION

As required under Oregon Administrative rule 340-122-325, SSES completed a Soil Matrix Cleanup evaluation of this site. Appendix E contains Soil Matrix checklist and Score Sheet. Based on site-specific parameters, a Soil Matrix score of 33 was calculated giving a Level 2 cleanup standard of 500 ppm diesel. Final confirmation samples collected from the excavation extents did not exceeding the soil matrix level of 500 ppm diesel established for the site. An initial groundwater sample, collected of water that had entered the excavation, showed low levels of diesel and heavy oil contamination; following contaminated soil removal, pumping, and disposal of groundwater from the excavation, a confirmation groundwater sample showed no impact from diesel and heavy oil. Therefore, SSES proceeded with the soil matrix cleanup.

6.0 SUMMARY, DISCUSSION, AND CONCLUSIONS

One 1,700-gallon UST was decommissioned by removal at 150 Newberg Highway in Woodburn, Oregon. The site is in a suburban setting and drinking water is supplied by the City of Woodburn. Initial soil grab samples were collected on February 26, 2021, and the leaking tank reported to DEQ on March 3, 2021. A total of approximately 783-gallons of product were removed from the UST and transferred to an AST for future use at the property. A total of 59.96 tons of contaminated soil was removed from the former tank area under SSES oversight. Laboratory analytical results



of final excavation confirmation soil samples showed that no remaining diesel concentrations exceed the Soil Matrix Level 2 cleanup standard.

The project site is a pump station associated with wastewater treatment for the City of Woodburn. Groundwater in the vicinity is not used for drinking, irrigation or other beneficial uses and drinking water in the area is supplied by the City of Woodburn. Contaminated groundwater was encountered in the excavation and was removed by another contractor during site activities. Groundwater recharged in the excavation, was reanalyzed by SSES, and neither diesel nor BTEX was detected above laboratory reporting limits. The excavation was backfilled by another contractor. Nine soil grab samples and 2 groundwater samples were collected for analysis. A soil matrix score of 33 was calculated for the site resulting in Level 2 cleanup standard of 500 ppm of diesel.

Oregon Water Resources Department (OWRD) well logs were reviewed for township, range, and section of the site as well as surrounding sections. Four beneficial use water wells logs (domestic and/or irrigation) were identified within ¼-mile of the site (MARI 1626, 1641, 1668, and 1670). The logs for these wells were reviewed and it was determined that all are screened to significantly greater depths than the shallow groundwater identified during site activities. Therefore, it is not probably that the contamination at this site will complete a pathway for ingestion or inhalation of contaminants as tap water. Well logs are included in Appendix D.

7.0 RECOMMENDATION

SSES requests a finding of No Further Action and file closure for the above referenced site, DEQ file #24-21-0252.

8.0 LIMITATIONS

This report was prepared by Soil Solutions Environmental Services, Inc. (SSES) for the City of Woodburn, and summarizes the results of our work at 150 Newberg Highway, Woodburn, Oregon. We have performed our services in accordance with our agreement and understanding with the client. The scope of work was limited to the specific project, location, and activities described herein. The material in it reflects our best judgment in light of the information available at report preparation.

This report may not be used or relied upon by any other party without the written consent of SSES. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SSES is not responsible for the independent conclusions, opinions or recommendations made by others based on this report and accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

SSES performed this work in accordance with generally accepted professional practices related to the nature of the work accomplished, in the same or similar localities, at the time the services were performed. The conclusions presented in this report are, in part, based upon subsurface sampling



performed at selected locations and depths. There may be conditions between sample points or samples that differ significantly from those presented in this report and which cannot be predicted by this study. For these types of evaluations, it is often necessary to use information prepared by others and SSES cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

9.0 REFERENCES

Jim E. O'Connor, Andrei Sarna-Wojcicki, Karl C. Wozniak, Danial J. Polette, and Robert J. Fleck, 2001, Origin, Extent, and Thickness of Quaternary Units in the Willamette Valley, Oregon: Reston, Virginia, U.S. Geological Survey Professional Paper 1620, Scale 1:250,000.

Terrence D. Conlon, Karl C. Wozniak, Douglas Woodcock, Nora B. Herrera, Bruce J. Fisher, David S. Morgan, Karl K. Lee, and Stephen R. Hinkle, 2005, Ground-Water Hydrology of the Willamette Basin, Oregon. Reston, Virginia, United States Geological Survey Scientific Investigations Report 2005-5168, 83p.



10.0 SIGNATURE

SOIL SOLUTIONS ENVIRONMENTAL SERVICES, INC

Report prepared by:

Adam Jones, Technical Report Writer, Project Manager

Kendra J. Williams, Registered Geologist, Project Manager



Expires 5/31/2023

Kendra J. Williams, R.G.



FIGURES

Vicinity and Site Map



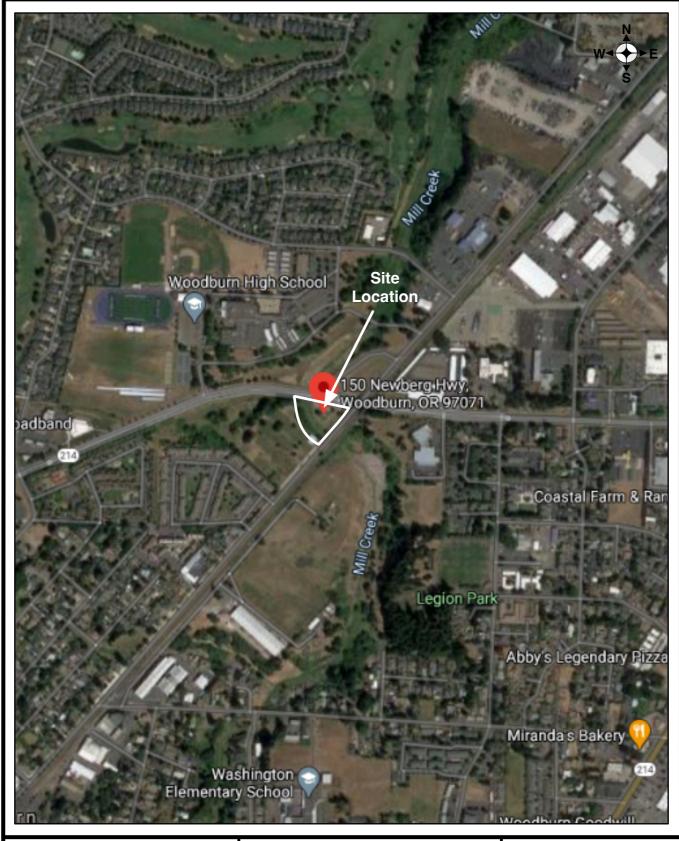


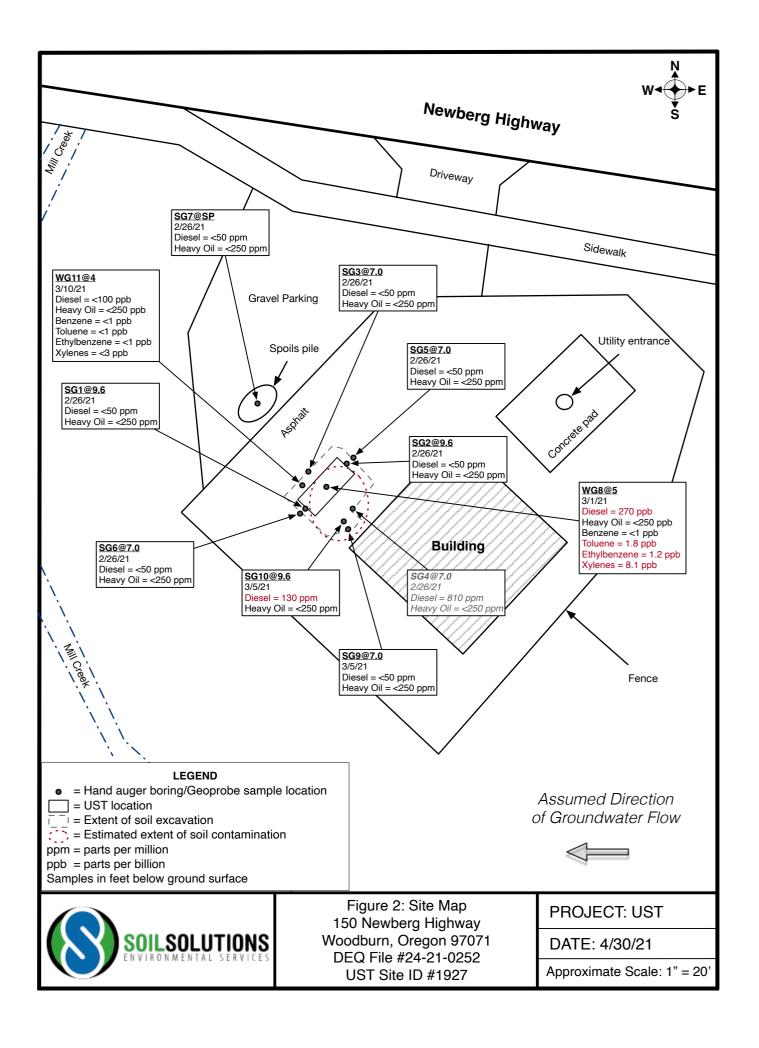


Figure 1: Vicinity Map 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-21-0252 UST Site ID #1927

PROJECT: UST

DATE: 4/30/21

Approximate Scale: 1" = 500'



TABLES

Soil and Groundwater Sample Analytical Results



Underground Storage Tank Closure Report 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-21-0252 UST Site ID #1927

Table 1 Soil Sample Analytical Results

		Analytical Results (mg/kg)2								
Sample Identification	Depth ¹	Date	Soil Disposition	Diesel Range (C ₁₀ -C ₂₅) ⁽³⁾	Residual Range (C ₂₅ -C ₃₆) ⁽³⁾	Benze ne ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-benzene ⁽⁴⁾	m,p-Xylene ⁽⁴⁾	o-Xylene ⁽⁴⁾
SG1@9.6'	9.6	2/26/21	Remain	<50	<250	-		-	-	-
SG2@9.6'	9.6	2/26/21	Remain	<50	<250	-		-	-	-
SG3@7.0'	7	2/26/21	Remain	<50	<250	-		-		-
SG4@7.0'	7	2/26/21	Removed	810	<250	-			-	-
SG5@7.0'	7	2/26/21	Remain	<50	<250	-		-	_	-
SG6@7.0'	7	2/26/21	Remain	<50	<250	-		-	_	-
SG7@SP	-	2/26/21	Remain	<50	<250	-	-	-	-	-
SG9@7.0'	7	3/5/21	Remain	<50	<250	-		-	_	-
SG10@9.6'	9.6	3/5/21	Remain	130	<250	-		_	_	-

Notes:

Gray italics indicate sample location has been removed from the site.

- 1 Depth in feet below ground surface
- 2 Results reported in miligrams per kilogram
- 3 Analyzed by NWTPH-Dx
- 4 Analyzed by EPA Methods 8260D/8021B
- x Sample chromatograph does not resemble fuel standard used for quantitation
- -- Not analyzed

Underground Storage Tank Closure Report 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-19-1007 UST Site ID #1927

Table 2

Groundwater Sample Analytical Results

				Analyt	ical Res	ults (ug/l)	2	
Sample Identification	Depth ¹	Date	Diesel Range (C ₁₀ -C ₂₅) ⁽³⁾	Residual Range (C ₂₅ -C ₃₆) ⁽³⁾	Benzene ⁽⁴⁾	Tolue ne ⁽⁴⁾	Ethyl-benzene ⁽⁴⁾	Total Xylenes ⁽⁴⁾
WG8@5	5	3/1/21	270	<250	<1	1.8	1.2	8.1
WG11@4'	4	3/10/21	<100	<250	<1	<1	<1	<3

Notes:

Gray italics indicate sample collected before remediation activities were complete

- 1 Depth in feet below ground surface
- 2 Results reported in micrograms per liter (ug/l)
- 3 Analyzed by NWTPH-Dx
- 4 Analyzed by EPA Methods 8260D/8021B
- x Sample chromatograph does not resemble fuel standard used for quantitation
- * sample passed through silica gel cleanup prior to analysis
- -- Not analyzed

APPENDICES

Appendix A Photographs of Field Activities

Appendix B Certified Analytical Reports, Chain of Custody Documents

Appendix C Disposal Receipts

Appendix D Nearby Water Well Logs

Appendix E DEQ Forms



Appendix A

Photographs of Field Activities





Photo 1. View of 150 Newberg Highway in Woodburn, Oregon. View is to the SSW.



Photo 3. Gates securing the wastewater pump facility at 150 Newberg Highway.



Photo 2. View of western half of property at 150 Newberg Highway. View is to the SW.



Photo 4. NW corner of pump station building. UST is located along right edge of photo. View is to the SE.





Photo 5. Asphalt parking lot covering UST. View is to the S.



Photo 7. UST location near SW corner of fence. View is to the S.

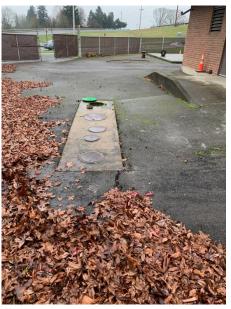


Photo 6. UST fill ports over UST. View is to the N.



Photo 8. Proximity of SW corner of fence to Mill Creek, located approximately 35-ft south of SW corner of fence. View is to the SE.





Photo 9. Spoils pile located outside NW side of fencing. Sample SG7@SP was collected here. View is to the SW.



Photo 11. Exposed tank with groundwater in excavation. View is to the SW.



Photo 10. Location of the UST. View is to the NW.



Photo 12. UST area view. View is to the S.





Photo 13. Cut tank top to inspect tank interior. View is to the SW.



Photo 14. Triple-rinsing and pumping the interior of the tank.



Photo 15. Removing the UST from the tank pit. View is to the SW.



Photo 16. Stockpiled clean soil from excavation to the west of the tank pit. View is to the WSW.





Photo 17. Proximity of excavation to pump station. View is to the S.



Photo 19. SE corner of excavation with groundwater pump in pit. View is to the SW.



Photo 18. Groundwater in tank pit. Sample WG8@5 was collected from this water. View is to the SW.



Photo 20. View of tank excavation pit with groundwater pumped out. View is to the SSE.



Appendix B

Certified Analytical Reports, Chain of Custody Documents



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 3, 2021

Project Managers Soil Solutions 3540 SE 28th Ave Portland, OR 97202

Dear Project Managers:

Included are the results from the testing of material submitted on February 27, 2021 from the 150 Newberg Hwy, F&BI 102457 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Soil Solutions Reports

SSI0303R.DOC

ENVIRONMENTAL CHEMISTS

Date of Report: 03/03/21 Date Received: 02/27/21

Project: 150 Newberg Hwy, F&BI 102457

Date Extracted: 03/01/21 Date Analyzed: 03/01/21

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25} ext{)}}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
SG1@9.6' 102457-01	<50	<250	95
SG2@9.6' 102457-02	<50	<250	105
SG3@7.0' 102457-03	<50	<250	103
SG4@7.0' 102457-04	810	<250	105
SG5@7.0' 102457-05	<50	<250	104
SG6@7.0' 102457-06	<50	<250	103
SG7@SP 102457-07	<50	<250	106
Method Blank	<50	<250	101

ENVIRONMENTAL CHEMISTS

Date of Report: 03/03/21 Date Received: 02/27/21

Project: 150 Newberg Hwy, F&BI 102457

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 102422-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	40,000	94 b	124 b	64-133	28 b

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

102457 SA		FCUSTODY ME C	2/27/2	(VS)	D02
Send Report To Project Managers	SAMPLERS signatu	Mys .			AROUND TIME
Company Soil Solutions Address 3540 SE 28th Avenue	PROJECT NAME/N		O#	☐ Standard ₩RUSH Rush charges	SAme Ay
City, State, Zip <u>Portland, OR 97202</u> Phone # (503) 234-2118 Fax # (503) 331-7133	REMARKS		(XDispose aft □ Return san	
		ANALYSES	REQUESTED		·

			***************************************	<u> </u>					AN	ALYSE	SREQ	UES'	CED	 ****	
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	NWTPH-Dx	NWTPH-HCID	NWTPH-Gx	BTEX 8021B	BTEXN 8260C	PAHs (No N) 8270CCIM	PAHs 8270C SIM	Lead by 200.8		Notes
St 1 C 9.6'	DIAK	2/26/21		Sal	1420r 24142	Y							, , , , , , , , , , , , , , , , , , ,		
SG2 (9.6'	02	2/26/21		<u>></u> か	24104	У									
S63 (7.6)	03	2/26/21		Soil	14500	У									
S64 P7-0'	204	2/26/21		Soil	142h 2400A	4							,,,,,		
ایرست ۸ ستیدا	a5	2/26/21		Soil	192m 24004	7				***************************************					
SG6 (7.0'	04	2 26/21		Seil	142a 2400A	Y									
56785P	07	2/26/21		Soil	24000	4		77							
		-				7	1								
															-
							1.								

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE TIME
Relinquished by:	Todd Inch	5 5	2/26/21
Received by:	James BIDES	F#B	2/27 1500
Relinquished by:			
Received by:			

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 5, 2021

Project Managers Soil Solutions 3540 SE 28th Ave Portland, OR 97202

Dear Project Managers:

Included are the results from the testing of material submitted on March 2, 2021 from the 150 Newberg Hwy, F&BI 103020 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Soil Solutions Reports

SSI0305R.DOC

ENVIRONMENTAL CHEMISTS

Date of Report: 03/05/21 Date Received: 03/02/21

Project: 150 Newberg Hwy, F&BI 103020

Date Extracted: 03/02/21 Date Analyzed: 03/02/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) Limit (52-124)
WG8@5 103020-01	<1	1.8	1.2	8.1	76
Method Blank 01-354 MB	<1	<1	<1	<3	77

ENVIRONMENTAL CHEMISTS

Date of Report: 03/05/21 Date Received: 03/02/21

Project: 150 Newberg Hwy, F&BI 103020

Date Extracted: 03/02/21 Date Analyzed: 03/02/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25})}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
WG8@5 103020-01	270	<250	107
Method Blank 01-519 MB	<100	<250	121

ENVIRONMENTAL CHEMISTS

Date of Report: 03/05/21 Date Received: 03/02/21

Project: 150 Newberg Hwy, F&BI 103020

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 103020-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	1.8	1.7	2
Ethylbenzene	ug/L (ppb)	1.2	1.2	1
Xylenes	ug/L (ppb)	8.1	8.1	1

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	99	65-118
Toluene	ug/L (ppb)	50	92	72 - 122
Ethylbenzene	ug/L (ppb)	50	91	73-126
Xylenes	ug/L (ppb)	150	89	74-118

ENVIRONMENTAL CHEMISTS

Date of Report: 03/05/21 Date Received: 03/02/21

Project: 150 Newberg Hwy, F&BI 103020

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	100	96	63-142	4

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

103020		SA	AMPLE CHAIN OF CUSTODY ME 03/02/21 VWI/ E03	
Send Report To Project Ma	nagers	·	SAMPLERS (signature) Page #ofTURNAROUND TIME	 C
Company Soil Solution Address 3540 SE 28		2	PROJECT NAME/NO. PO# Standard RUSH_ Rush charges authorized by:	
City, State, ZipPortland, C		-7133	REMARKS SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions	
			ANALYSES REQUESTED	
Sample ID	Lab ID Date Sampled	Time Sampled	Sample Type # of	

Sample ID	Lab ID	Sampled	Sampled	Sample Type	concamers	U.H.J.M.N	NWTPH-E	BTEX 802	BTEXN 82	PAHS (No 8270CCIM	PAHs 8270	Lead by 20	Notes
W6805	01 A-F	3/1/21		Hzc	3 AMb. 3 VIA	X		X					
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Toshi Sagara	SS	3/1/21	
Received by:	Whan Phan	FEBI	3/2/21	0130
Relinquished by:				1
Received by:				

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 9, 2021

Project Managers Soil Solutions 3540 SE 28th Ave Portland, OR 97202

Dear Project Managers:

Included are the results from the testing of material submitted on March 6, 2021 from the 150 Newberg Hwy, F&BI 103128 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Soil Solutions Reports

SSI0309R.DOC

ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/21 Date Received: 03/06/21

Project: 150 Newberg Hwy, F&BI 103128

Date Extracted: 03/08/21 Date Analyzed: 03/08/21

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25})}$	$\frac{\text{Residual Range}}{(\text{C}_{25}\text{-C}_{36})}$	Surrogate (% Recovery) (Limit 56-165)
SG9@7.0' 103128-01	<50	<250	88
SG10@9.6' 103128-02	130	<250	88
Method Blank	<50	<250	81

ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/21 Date Received: 03/06/21

Project: 150 Newberg Hwy, F&BI 103128

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 103128-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	56	97	91	63-146	6

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	88	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

N3/154 03-06-21 SAMPLE CHAIN OF CUSTQDY 103128 SAMPLERS (signatur TURNAROUND TIME Send Report To Project Managers Standard Sine Day PO# PROJECT NAME/NO Rush charges authorized by: Soil Solutions Company____ 150 Newberg Hwy 3540 SE 28th Avenue SAMPLE DISPOSAL Address REMARKS X Dispose after 30 days City, State, Zip Portland, OR 97202 □ Return samples ☐ Will call with instructions Phone #___(503) 234-2118 __Fax #___(503) 331-7133 ANALYSES REQUESTED PAHS 8270C SIM BTEXN 8260C NWTPH-HCID 200.8 PAHs (No N) 8270CCIM BTEX 8021B NWTPH-Dx Notes # of Time Date Sample Type Lab ID Sample ID containers Sampled Sampled 1200 Son 3/5/21 DUJUA 14200 26004 Soi 3 5 21 Samples received at TIME COMPANY PRINT NAME SIGNATURE Friedman & Bruya, Inc. Relinguished by: 3012 16th Avenue West 3/6/21/1500 Ann webber Brusa Received by: Seattle, WA 98119-2029 Relinguished by: Ph. (206) 285-8282 Received by: Fax (206) 283-5044

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

March 17, 2021

Project Managers Soil Solutions 3540 SE 28th Ave Portland, OR 97202

Dear Project Managers:

Included are the results from the testing of material submitted on March 11, 2021 from the 150 Newberg Hwy, F&BI 103197 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures

c: Soil Solutions Reports

SSI0317R.DOC

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/21 Date Received: 03/11/21

Project: 150 Newberg Hwy, F&BI 103197

Date Extracted: 03/11/21 Date Analyzed: 03/11/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Surrogate (% Recovery) Limit (52-124)
WG11@4' 103197-01	<1	<1	<1	<3	71
Method Blank	<1	<1	<1	<3	74

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/21 Date Received: 03/11/21

Project: 150 Newberg Hwy, F&BI 103197

Date Extracted: 03/11/21 Date Analyzed: 03/11/21

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$rac{ ext{Diesel Range}}{ ext{(C}_{10} ext{-C}_{25})}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
WG11@4'	<100	<250	70
Method Blank	<100	<250	69

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/21 Date Received: 03/11/21

Project: 150 Newberg Hwy, F&BI 103197

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 103143-06 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm

Laboratory Code: Laboratory Control Sample

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Benzene	ug/L (ppb)	50	93	65-118	
Toluene	ug/L (ppb)	50	87	72 - 122	
Ethylbenzene	ug/L (ppb)	50	86	73 - 126	
Xylenes	ug/L (ppb)	150	85	74-118	

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/21 Date Received: 03/11/21

Project: 150 Newberg Hwy, F&BI 103197

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 103184-06 (Matrix Spike)

				Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	380	120	102	50-150	16

Laboratory Code: Laboratory Control Sample

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	ug/L (ppb)	2,500	96	63-142	_

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
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- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
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- ht The analysis was performed outside the method or client-specified holding time requirement.
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- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
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- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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103197	SAMPLE CHAIN OF CUSTODY	- ME	03-11-21 VWI/E04
Send Report To Project Managers	SAMPLERS (signature)		rage#of TURNAROUND TIME
Company Soil Solutions Address 3540 SE 28th Avenue	PROJECT NAME/NO. 150 Newberg Hwy	P0#	Standard RUSH Rush charges authorized by:
City, State, Zip <u>Portland, OR 97202</u> Phone #(503) 234-2118 Fax #(503) 331-7133	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

	į								AN.	ALYSE	S REQ	UES?	red		
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	NWTPH.Dx	NWTPH-HCID	NWTPH-Gx	BTEX 8021B	BTEXN 8260C	PAHs (No N) 8270CCIM	PAHs 8270C SIM	Lead by 200.8		Notes
W61104	OIAE	3/10/21		H20	5	X			X						
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					3										

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Antonio R	5/5	3/10/21	
Received by: mill all au	Whan Phan	FLBI	3/11/21	1030
Relinquished by:				
Received by:				

Underground Storage Tank Closure Report 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-21-0252 UST Site ID #1927

Appendix C

Disposal Receipts



BILL OF Headquarters EPA# ORO000024941 Goshen, OR: 306962 LADING Hoguiam, WA: EPA# WAD988519419 4150 N. Suttle Road Klamath Falls, OR: EPA# ORD980980775 Portland, Oregon 97217 Kennewick, WA: EPA# WAH000011577 Phone 503-286-8352 Medford, OR: EPA# ORD987197092 Coos Bay, OR: EPA# ORD980978266 Toll Free 800-367-8894 Spokane, WA: EPA# WAH000011585 Dispatch # EPA# ORD980975692 Company CHAKLIE 503-234-211A Generator Contact Person Address County Consigned To: Check# PO# Destination: Via Carrier: Load Ticket # Truck # Driver: Profile CDT/ Flash Rate per Rate Per рН Gal./Brl. Description Charge HCDT Point Gal./Brl. Date Hour Above material is being transported for Recycling Total: Customer warrants that the waste petroleum products being transferred by the above collector does 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 Analytical), 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 substance classification program Should Laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

Signed X

3-12-2



Reprint Ticket# 1595030

Customer Name SOILSOLUTION SOIL SOLUTIONS E Carrier WEST COAST DUMP TRUCKS Vehicle# 99-SOLO Ticket Date 03/05/2021 Volume Container

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route State Waste Code Manifest

NA Destination

PO SOIL SOLUTIONS

Profile 1061770R (LF02-Diesel Fuel Impacted Soil and/or Debris Cleanup)

Generator OR-SOIL SOLUTIONS SOIL SOLUTIONS 3540 SE 28TH AVE

Scale Operator Inbound Gross 50320 lb 24540 lb 25780 lb JPRIME Tare 03/05/2021 13:01:26 Inbound 1 Τn 03/05/2021 13:17:14 Outbound **JPRIME** Net 12.89 Tons

Driver

Check# Billing #

Grid

Gen EPA ID N/A

ORVIE

0002022

Comments

Consumer Comments? We want to know. Please call.

Proc	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-To 13% FEA-13% FEA FE		12.89	Tons				MULT-IN MULT-IN

Total Tax Total Ticket



Reprint

Volume

Ticket# 1595048

Customer Name SOILSOLUTION SOIL SOLUTIONS E Carrier RL REIMERS Ticket Date 03/05/2021 Vehicle# 5-SOLO

Ticket Date 03/05/2021 Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route State Waste Code Manifest na Driver SAM Check#

Container

Billing # 0002022 Gen EPA ID N/A

Destination Grid

PO SOIL SOLUTIONS

Profile 106177OR (LF02-Diesel Fuel Impacted Soil and/or Debris Cleanup)

Generator OR-SOIL SOLUTIONS SOIL SOLUTIONS 3540 SE 28TH AVE

Time Scale Operator Inbound Gross 55660 lb
In 03/05/2021 14:13:30 Inbound 2 EDESMART Tare 25560 lb
Out 03/05/2021 14:13:30 EDESMART Net 30100 lb
Tons 15.05

Comments

Consumer Comments? We want to know. Please call.

Proc	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-To 13% FEA-13% FEA FE		15.05	Tons				MULT-IN

Total Tax Total Ticket



Reprint Ticket# 1595057

Customer Name SOILSOLUTION SOIL SOLUTIONS E Carrier WEST COAST DUMP TRUCKS Vehicle# 99-SOLO Ticket Date 03/05/2021 Volume Container

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route State Waste Code

Manifest NA Destination Grid

PO SOIL SOLUTIONS

Profile 106177OR (LF02-Diesel Fuel Impacted Soil and/or Debris Cleanup)

Generator OR-SOIL SOLUTIONS SOIL SOLUTIONS 3540 SE 28TH AVE

Scale Operator Inbound Gross 55940 lb 24480 lb Inbound 1 amarti22 03/05/2021 15:47:55 Tare Τn 31460 lb 15.73 03/05/2021 16:02:41 Outbound **EDESMART** Net Tons

Driver

Check# Billing #

Gen EPA ID N/A

ORVIE

0002022

Comments

Consumer Comments? We want to know. Please call.

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	15.73	Tons				MULT-IN
2.	13% FEA-13% FEA FE	100		용				MUT ₁ T-TN

Total Tax Total Ticket



Reprint

Volume

Ticket# 1594989

Customer Name SOILSOLUTION SOIL SOLUTIONS E Carrier RL REIMERS Vehicle# 5-SOLO Ticket Date 03/05/2021

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route State Waste Code Manifest NA

Destination

Container Driver SAM Check#

Billing # 0002022 Gen EPA ID N/A

Grid

PO SOIL SOLUTIONS

Profile 1061770R (LF02-Diesel Fuel Impacted Soil and/or Debris Cleanup)

Generator OR-SOIL SOLUTIONS SOIL SOLUTIONS 3540 SE 28TH AVE

Scale Operator Inbound Gross 58140 lb 25560 lb Inbound 2 03/05/2021 10:21:36 Tare amarti22 Τn 32580 lb 16.29 03/05/2021 10:37:51 Outbound **JPRIME** Net Tons

Comments

Consumer Comments? We want to know. Please call.

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover-PCS-To 13% FEA-13% FEA FE		16.29	Tons				MULT-IN

Total Tax Total Ticket

PNW METAL RECYCLING, INC. **DBA: R.S. DAVIS RECYCLING**

10105 SE MATHER RD CLACKAMAS, OR 97015 503-655-5433

Account:

SCALE RECEIVER

**** RECEIVING HOURS*****

MON-FRI 8:00AM TO 4:15 PM SATURDAY 8:00AM TO 1:45 PM

Recv Date: 02/01/2021

Receiver #: 1266135

Control #: 1266135

TIME IN: 08:03

		OR 97068		TIME OUT: 08:22 Contract:					
Commodity	Description		Gross	Tare	Deduct	Net	Price	UΜ	Amount
TIN	TIN	*	15,260	13,740	0	1,520	140.00	/ NT	106.40
		IN	: 02/01/	2021 8:04:0	9 AM OU	I T: 02/0	01/2021 8:	22:16 <i>F</i>	
ROUNDING	ROUNDING ACCOUNT								-0.40
		IN	:		OU	IT:		_	
					Totals	1,520			106.00

Initials

PAYMENT

Cash

CPC

Declaration of Seller

I, the undersigned, hereby declare that the property that is subject to this transaction is not, to the best of my knowledge, stolen property. I understand that this statement is made under penalty of perjury and may be used as evidence in court. I also certify that all refrigerant (including but not limited to chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and hydrofluorocarbons (HFCs), as defined in 40 CFR Part 82, Subpart F, pursuant to the Clean Air Act Amendments,) that has not leaked previously has been properly recovered prior to delivery. Seller further agrees to hold PNW Metal Recycling harmless from any claim, penalty, fine, fee, cost, attorney's fees, or other liability resulting in whole or in part from seller's breach of this certification.

	Employee's signature:	
Accepted by:	Date:	TH

Underground Storage Tank Closure Report 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-21-0252 UST Site ID #1927

Appendix D

Nearby Water Wells



NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

WATER WELL REPORT

JUL 24 196 TATE OF OREGON

State Well No. 5/16-70

of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310 FILE ENGINEER, SALEM, OREGON 97310 FILE ENGINEER, SALEM, OREGON 97310 FILE ENGINEER type or print) within 30 days from the date of well completion.

State Permit No.

of well completion.	G-4050
(1) OWNER:	(11) LOCATION OF WELL:
Name St. Luke's Cemetery Assoc., Inc.	County Marion Driller's well number 1237
Address 782 N. Third St. Woodburn, Oregon	14 14 Section 7 T. 5S R. 1W W.M.
(9) TYPE OF WORK (sheek).	Bearing and distance from section or subdivision corner
(2) TYPE OF WORK (check):	
New Well Deepening Reconditioning Abandon	
f abandonment, describe material and procedure in Item 12.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(12) WELL LOG: Diameter of well below casing
Rotary Driven Domestic Industrial Municipal	Depth drilled 130 ft. Depth of completed well 130 ft.
Oug 🗍 Bored 🗋 Irrigation 🙀 Test Well 🗌 Other 📋	Formation: Describe color, texture, grain size and structure of materials;
CASING INSTALLED: Threaded Welded \(\overline{\pi} \) 8 \('' \) Diam from top \(\text{ft} \) to \(\frac{130}{250} \) ft. Gage 250	and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level as drilling proceeds. Note drilling rates.
The state of the first o	MATERIAL From To SWL
" Diam. from ft, to ft. Gage	Top soil 0 3
PERFORATIONS: Perforated? ₩ Yes □ No.	Yellow Clay 3 18
Type of perforator used Mills	Grayxmandyxmhalex is is is
	Silty yellow clay 18 35
Size of perforations 3/8 in. by 2 in. 64 perforations from 119 ft. to 124n in ft.	Gray sandy shale 35 60 40
	Black sandy shale 60 75
perforations fromft. toft.	Black sand Shale 75 80
perforations fromft. toft.	Black sand shall are 80 100
perforations fromft. toft.	<u>Gramainhyhinekynhain</u>
perforations from ft. to ft.	Black sand 100 113
(7) SCREENS: Well screen installed? ☐ Yes ▼ No	Black sand small gravel 113 114
Manufacturer's Name	Greenish black shale 114 116
Type Model No	Black sand & small gravel 116 123 Black sand & mud 123 130
Diam Slot size Set from ft. to ft.	1
Diam Slot size Set from ft. to ft.	Brown sandy shale 130 40
(8) WATER LEVEL: Completed well.	,
Sian pressure lbs. per square inch Date	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	
Was a pump test made? To Yes \(\subseteq \) No If yes, by whom? driller	
<u>Vield: 100</u> gal./min. with 70 ft. drawdown after 4 hrs.	Work started 7/7/67 19 Completed 7/18/67 19
80 " 55 " 4 "	Date well drilling machine moved off of well 7/18/67 19
" <u>-</u> " "	Drilling Machine Operator's Certification:
Bailer test gal./min. with ft. drawdown after hrs.	This well-was constructed under my direct supervision. Mate-
	rials used and information reported above are true to my best knowledge and belief.
Artesian flow g.p.m. Date	and a last 120 lon
Temperature of water 54 Was a chemical analysis made? ☐ Yes 🔁 No	[Signed] Date 7, 18/0, 19 (Drilling Machine Operator)
(10) CONSTRUCTION:	Drilling Machine Operator's License No74
Well seal-Material used Drill cuttings & Puddle Clay	Dining Machine Operators Discuss No
Depth of seal	Water Well Contractor's Certification:
Diameter of well bore to bottom of seal in.	This well was drilled under my jurisdiction and this report is
Were any loose strata cemented off? The No Depth	true to the best of my knowledge and belief.
Was a drive shoe used? ▼ Yes □ No	NAME WILLAMETTE DRILLING COMPANY (Person, firm or corporation) (Type or print)
Did any strata contain unusable water Tyes 🗑 No	Th. 0 Th 0 Th -
Type of water? dpth of strata	Address Rt. 2 Box 276, Salem, Oregon
Method of sealing strata off	[Signed] Mul Decen
Was well gravel packed? ☐ Yes ₩ No Size of gravel:	(Water Well Contractor)
Gravel placed fromtt.	Contractor's License No. 2 Date 7/18/67 19
Graver places seem	

FEB 1 9 1975 tate Well No. 55 | IW-8 cb of this report are to be filed with the STATE OF OREGON STATE ENGINEER, SALEM, OREGON (Please type or print) STATE ENGINEER Permit No. within 30 days from the date (Do not write above this line) SALEM, OREGON of well completion. (10) LOCATION OF WELL: (1) OWNER: coMarion Driller's well number Ken Monnier Name 8 r. 5S r. 1420 N Front NW 14 SW 14 Section Woodburn, Oregon Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): New Welk Deepening [Reconditioning | Abandon 🛘 If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (3) TYPE OF WELL: (4) PROPOSED USE (check): Depth at which water was first found Rotary XX Driven 🗆 Static level ft. below land surface. Date Domestic 🕱 Industrial 🗌 Municipal 🗌 Cable Jetted D \Box Irrigation XIX Test Well □ Other Dug Bored | Artesian pressure lbs. per square inch. Date CASING INSTALLED: Threaded | Welde X X (12) WELL LOG: Diameter of well below casing 8 " Diam. from ... 0 ft. to ... 112 ft. Gage ... 250 114 ft. Depth of completed well Depth drilled " Diam. from ft. to ft. Gage Formation: Describe color, texture, grain size and structure of materials; ______ ft. to ______ ft. Gage _____ and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in PERFORATIONS: position of Static Water Level and indicate principal water-bearing strata. Perforated? Tyes XXo. Type of perforator used MATERIAL Topsoil Size of perforations in. by perforations from ft. to ft. Brown clay 26 Grey clay 26 43 perforations from ft. to ft. Grev fine sand _____ perforations from _____ ft. to _____ ft. Greyy clay 68 (7) SCREENS: Well screen installed? ☐ Yes XX No 68 73 Grev fine sand Manufacturer's Name Blue clay 73 81 81 Model No. Grey fine sand 87 87 Diam. Slot size Set from ft. to Grye clay 95 Diam. Slot size Set from ft. to ft. Brown fine sand 95 105 Sand & gravel, Medium 105 Drawdown is amount water level is lowered below static level (8) WELL TESTS: driller Was a pump test made? XXYes \(\backslash \text{No If yes, by whom?} \) 150 gal./min. with 87 ft. drawdown after gal./min. with ft. drawdown after g.p.m. sian flow Depth artesian flow encountered ft. perature of water Work started 11-20 19 71 Completed 11-22 Date well drilling machine moved off of well (9) CONSTRUCTION: Well seal-Material used Bentonite Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Well sealed from land surface to Materials used and information reported above are true to my best knowledge and belief. Diameter of well bore to bottom of seal 3 [Signed] January M Jacob Machine Operator Diameter of well bore below seal Number of sacks of cement used in well seal Drilling Machine Operator's License No. Number of sacks of bentonite used in Fell seal Bariod Water Well Contractor's Certification: Number of pounds of bentonite per 100 Mions of water This well was drilled under my jurisdiction and this report is lbs./100 gals. true to the best of my knowledge and belief. Name Skyles Drilling and Supply

(Type or print) Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft. Did any strata contain unusable water? Tes XXNo Address 1169 Molalla Avenue, Oregon City depth of strata Type of water? Method of sealing strata off Was well gravel packed? Tyes XXV0 Size of gravel: Contractor's License No. 553 ±t to -(USE ADDITIONAL SHEETS IF NECESSARY)

WATER WELL REPOR

NOTICE TO WATER WELL CONTRACTOR The original and first copy

RECEIVED

SP*45656_119

STATE ENGINEER Salem, Oregon OWNER: J. A. Wiedeman M. R. V. Well LOCATION OF WELL OF A N. W.	Record	STATE WELL NO. 5/14-8M COUNTY MARION APPLICATION NO. CR-2827
OWNER: J. A. Wiedeman	MAILING ADDRESS:	Woodburn, Oregon
LOCATION OF WELL: Owner's No.	CITY AND STATE:	***************************************
NW 4 SW 4 Sec. 8 T. 5 S, R. T W	., W.M.	
Bearing and distance from section or subdivision corner1300' E. and 60' S.		

A 4		
Altitude at well		
TYPE OF WELL: drilled Date Constructed Depth drilled 125 Depth cased 125		Section
CASING RECORD:		
8-inch		
FINISH:		
AQUIFERS:	2 to 1 to	
•••		
WATER LEVEL: 15-feet	400	
T)-166 (
PUMPING EQUIPMENT: Type Fairbanks M Capacity 100 G.P.M.	orse Turbine	H.P. 5
WELL TESTS: Drawdown ft. after	hours	
Drawdown ft. after		
USE OF WATER irrigation	Temp.	°F
DRILLER or DIGGER		
ADDITIONAL DATA: Log Water Level Measurements	_ Chemical Ans	alysis Aquifer Test

REMARKS:

LOCATION OF WELL: Owner's No. STATE:	MARILLE	l Recor	NG	COUNT	Y MATION NO	5/1W-8M(arion D
Mater Level: 15 feet Water Level: 15 feet Water Level: 15 feet Water Level: 15 feet Water Level: Capacity G.P.M Well Tests: Drawdown ft. after hours G.P.M Use OF Water Domestic, Irr10 acres Temp. Source Of Information Light Source Of Information Light Source Of Information Light Drawloval Data: Chemical Analysis Aquifer Test		CTTV	A NTD			
Bearing and distance from section or subdivision corner			•			
Altitude at well	Bearing and distance from section or subdivision					
Altitude at well 180 TYPE OF WELL: Drilled Date Constructed 1952 Depth drilled 125 Depth cased 125 Section CASING RECORD: 8 inch FINISH: AQUIFERS: WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type Turbine H.P. 5 Capacity G.P.M. WELL TESTS: Drawdown ft. after hours G.P.M. Drawdown ft. after hours G.P.M. USE OF WATER Domestic, Err10 acres Temp. °F. , 19. SOURCE OF INFORMATION USGS. DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aquifer Test						
Depth drilled 125 Depth cased 125 Section CASING RECORD: 8 inch AQUIFERS: WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type Turbine H.P. 5 Capacity G.P.M. WELL TESTS: Drawdown ft. after hours G.P.M. Drawdown ft. after hours G.P.M. USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aquifer Test					 -	
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WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type Turbine				Section		
FINISH: AQUIFERS: WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type	CASING RECORD:					
AQUIFERS: WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type Turbine H.P. 5 Capacity G.P.M. WELL TESTS: Drawdown ft. after hours G.P.M Drawdown ft. after hours G.P.M USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aquifer Test	8 inch					
WATER LEVEL: 15 feet PUMPING EQUIPMENT: Type Turbine	FINISH:	·				
PUMPING EQUIPMENT: Type Turbine H.P. 5 Capacity G.P.M. WELL TESTS: Drawdown ft. after hours G.P.M Drawdown ft. after hours G.P.M USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USCS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aguifer Test	AQUIFERS:				**************************************	
Capacity G.P.M. WELL TESTS: Drawdown ft. after hours G.P.M Drawdown ft. after hours G.P.M USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aquifer Test			32			
WELL TESTS: Drawdown ft. after hours G.P.M Drawdown ft. after hours G.P.M USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aquifer Test	PUMPING EQUIPMENT: Type	Turbine			Н.Р	5
USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aguifer Test	WELL TESTS:					
USE OF WATER Domestic, Irr10 acres Temp. °F. , 19 SOURCE OF INFORMATION USGS DRILLER or DIGGER ADDITIONAL DATA: Log Water Level Measurements Chemical Analysis Aguifer Test	Drawdown ft. after	hours		and the second district of the second distric		GPM
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Log Water Level Measurements Chemical Analysis Aquifer Test	DRILLER or DIGGER	S Temp.	°F	and the second section of the sectio		, 19
KHWAKK						

Underground Storage Tank Closure Report 150 Newberg Highway Woodburn, Oregon 97071 DEQ File #24-21-0252 UST Site ID #1927

Appendix E

DEQ Forms

Forms included: Soil Matrix Checklist Soil Matrix Scoresheet





OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY Underground Storage Tank Program

SOIL MATRIX CHECKLIST AND SOIL MATRIX SCORESHEET



1. The release of petroleum has been reported to the DEQ (0220).



2. The matrix score sheet has been completed for this site, unless the site is cleaned up to the most stringent cleanup level (0320).



3. The required hydrocarbon identification test (NWTPH-HCID) has been performed (0335(3)), and, if detectable levels were found, the appropriate analytical method or methods have been used to measure the levels of contamination (0218).



4. A sketch has been made of this site (0345(1)) which clearly shows:



The location of all buildings and other key features, both man-made and natural;



b. The names of adjacent streets and properties;



The location of all excavations including those that were for the removal of tanks and associated piping as well as those that were strictly for the removal of contaminated soils;



The location of all product storage tanks, lines and dispensers, including those that d. were decommissioned as well as those that remain on the site; and



e. All soil and water sample locations.



If any contaminated soil exceeding matrix limits has been left on site, the reason for leaving this soil has been explained and the requirements of 0340(1)(f) and 0355(4) have been met.



6. If water was present in the tank pit, the Department was notified, the water was pumped from the pit, and the requirements of 0340(4) have been met.



7. All soil and/or water samples have been collected, coded, stored and shipped as specified in the rules, and proper chain-of-custody forms have been filled out (0345).



8. If a release from a waste oil tank was discovered, at least one sample has been analyzed by the methods specified in 0218(1)(b)(D).



If a tank was decommissioned in place, the Department gave prior approval for a site-specific sampling plan (0340(5)).



A report has been prepared which includes a detailed description of everything that was observed and performed at the site, contains all of the information required by the rules (0360), and presents findings and recommendations which are consistent with Department regulations.

SOIL MATRIX SCORE SHEET

1.	Depth to Groundwater < 25 feet 25 - 50 feet 51 - 100 feet > 100 feet	r (10) (7) (4) (1)	10
2.	Mean Annual Precipit > 45 inches 20 - 45 inches < 20 inches	(10)	
3.	Native Soil Type Course sands, Silts, fine sand Clays	-	
4. Aquifer	Sensitivity of Upperm Sole Source Current Potable Future Potable Non-potable	(10) (7) le (4)	4
5.	Potential Receptors Many, near Medium Few, far	(10) (5) (1)	
	TOTAL SCORE	=	33
	MATRIX SCORE	Cleanup Level Gasoline	(ppm TPH) Diesel
Level Level Level	2: 25 - 40 pts.	40 80 130	100 500 1000

Clear All Entries

Print Form