Report

Second Half 2020 Groundwater Monitoring Report

J.H. Baxter & Co. Wood Treating Facility
Eugene, Oregon
ECSI No. 55

Prepared for

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1. Introduction 3
2. Monitoring Activities 3
3. Groundwater Elevations 4
4. Analytical Results 4
4.1 Onsite Monitoring Wells 4
4.2 Onsite Extraction Wells 5
4.3 Offsite Monitoring Wells 5
4.4 Quality Assurance and Quality Control 5
5. Groundwater Extraction and Treatment System 6
6. First Half 2021 Activities 6
7. References 7

Tables

Table 1 Groundwater Elevation Summary
Table 2 Phenol Analytical Results in Groundwater Samples
Table 3 Groundwater Extraction System Summary

Figures

Figure 1 Site Vicinity Map
Figure 2 Site Detail Map
Figure 3 Shallow Zone Groundwater Elevation, Second Half 2020
Figure 4 Intermediate Zone Groundwater Elevation, Second Half 2020
Figure 5 Pentachlorophenol in Groundwater, Second Half 2020

Appendices

Appendix A Laboratory Report
Appendix B Groundwater Sampling Forms
Appendix C Time Series Plots: Pentachlorophenol in Groundwater

1. Introduction

This report presents the results of groundwater monitoring activities conducted in the second half of 2020 at the J.H. Baxter & Co. (Baxter or J.H. Baxter) facility in Eugene, Oregon (facility or Site), located at 85 Baxter Street (Figures 1 and 2). Groundwater monitoring activities were conducted in accordance with the *Groundwater Monitoring Work Plan* (Hart Crowser, 2001), *Revised Groundwater Monitoring Work Plan* (Baxter, 2003), and *Revised Monitoring Program May 2015* (Baxter, 2015).

The facility has a total of 3 extraction wells and 41 monitoring wells. Additionally, an offsite well not owned by Baxter is included in the monitoring well network. The wells are:

- **Extraction Wells** (total of 3): W-13S, W-13I, and W-20I
- **Onsite Monitoring Wells** (total of 26): W-1S, W-2S, W-2I, W-3S, W-4S, W-5I, W-6I, W-7S, W-8S, W-8I, W-9S, W-9I, W-9D, W-11S, W-11I, W-12I, W-12D, W-13D, W-14I, W-15S, W-18AS, W-18AI, W-21S, W-21I, W-22S, and W-23
- **Offsite Monitoring Wells** (total of 15): W-16AS, W-16AI, W-17AS, W-17AI, W-17BI, W-18BI, W-19AS, W-24, W-25, W-26, W-28, W-29, W-32, W-34, and W-35
- **Non-Baxter Offsite Monitoring Well**: Zip-O-Log

Of these wells, 17 were sampled in September 2020 for Site-related constituents in agreement with the *Revised Monitoring Program May 2015* (Baxter, 2015). On May 7, 2015, the *Revised Monitoring Program May 2015* was approved by the Oregon Department of Environmental Quality (DEQ; DEQ, 2015). The revised monitoring program requires the sampling of 4 wells semiannually in March and September (W-24, W-25, W-26 and W-29), and 13 additional wells annually in September. Monitoring well W-24 was not sampled in September 2020 due to access restrictions from asphalt paving operations, Baxter will work with the City of Eugene to gain access to W-24 for future sampling events. The analytical method was changed from EPA Method 8270C to EPA Method 625.1 due to analytical laboratory limitations. One additional well, W-18AI was sampled in September 2020. This report summarizes the results of the September 2020 monitoring event and the groundwater extraction data through December 2020.

2. Monitoring Activities

The groundwater monitoring event was conducted on September 28 through 30, 2020. Field activities, including groundwater level measurements and groundwater sampling, were completed by GSI Water Solutions and Baxter personnel. Wells were sampled using low-flow methods as described in the *Revised Groundwater Monitoring Work Plan* (Baxter, 2003), with dedicated groundwater pumps and tubing. Groundwater samples, equipment decontamination, and sample custody procedures were in accordance with previous sampling events, the *Groundwater Monitoring Work Plan* (Hart Crowser, 2001), and *Revised Groundwater Monitoring Work Plan* (Baxter, 2003).

Groundwater samples were analyzed by Neilson Research Corporation (NRC) of Medford, Oregon for the following:

- Pentachlorophenol (PCP) and Phenol by U.S. Environmental Protection Agency (EPA) Method 625.1.

Groundwater levels were measured at 33 wells and groundwater samples were collected from 17 wells. The laboratory report is presented in Appendix A and groundwater sampling forms are presented in Appendix B.

On September 29, 2020, one field blind, or duplicate, was collected at well W-20I. The blind was analyzed for PCP and phenol. No equipment blank was required in September 2020 since dedicated pumps were installed in 2020 and are now used for groundwater monitoring at all sampled wells.

3. Groundwater Elevations

Groundwater elevations are presented in Table 1. Groundwater elevation contours are presented in Figures 3 and 4, with the shallow zone contoured in Figure 3 and the intermediate zone contoured in Figure 4. The groundwater contour maps for both the shallow and intermediate zones show that the extraction system is achieving capture within the historic source area.

4. Analytical Results

Groundwater samples for the September 2020 monitoring event were analyzed for PCP and phenol. The laboratory results are provided in Table 2. PCP results are presented in Figure 5 and time-series plots are provided in Appendix C. Note that the non-detect values on the time-series plots are shown as hollow symbols so that when method detection limits (MDL) are elevated, it is not misinterpreted as representing the concentration in the well.

4.1 Onsite Monitoring Wells

Seven onsite monitoring wells were sampled during the September 2020 monitoring event. PCP was detected in five of the onsite wells, with concentrations ranging from an estimated detection of 2.03 to 1,560 micrograms per liter (µg/L). The highest concentration of PCP was found in well W-7S. W-18AI had a detected value of 4.45 µg/L, Baxter does not plan on sampling W-18AI in the future as it is not included in the *Revised Monitoring Program May 2015* (Baxter, 2015). Figure C-1 in Appendix C shows that the concentrations in well W-7S have generally decreased from a high of 4,000 µg/L in 2009, however; a rising trend in PCP concentrations began after the October 2016 sampling event before peaking in September 2019 and beginning to shows a reversing trend with the September 2020 results. However, as 2020 was the first indication of a falling concentration since 2016, the results will continue to be monitored closely to determine if the trend is sustained. The reasoning for the variable trend is unknown but may indicate more effective movement of PCP from points upgradient of W-7S towards the extraction well or variable saturation of the vadose zone soil from year to year during the time of sampling. September 2019 was one of the wettest Septembers on record while September 2020 was close to an average month. However, September 2018 showed an increasing trend and was an exceptionally dry month. Additionally, there is no increase in the extraction well concentrations indicating a new

source. Concentrations in all other wells sampled continue to decrease towards reporting limits or are stable around or below method reporting limits (MRLs) aside from W-23 (C-6) which noted an increase in PCP concentration but with the detected result at only at 12.4 µg/L. The second half 2020 detections remain less than historical averages and continue on decreasing trends.

No phenol was detected at any of the onsite monitoring wells. The phenol result from W-6I was rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. As such, the presence or absence cannot be verified.

4.2 Onsite Extraction Wells

PCP was detected in the three onsite extraction wells during the September 2020 monitoring event, with concentrations ranging from 1.88 to 254 µg/L. The highest detection was in well W-13I. No phenol was detected in any onsite extraction wells. Concentrations in W-13S (Figure C-4) appear to have stabilized near reporting limits since first quarter of 2015. Concentrations in W-13I (Figure C-4) have appeared to stabilize below 400 µg/L since the first quarter of 2015 and concentrations in W-20I (Figure C-6) have appeared to stabilize around 20-25 µg/L since the third quarter of 2015 indicating consistent and continuous removal of PCPs in intermediate zone groundwater over time.

4.3 Offsite Monitoring Wells

PCP was detected in three of the seven off-site monitoring wells sampled during the September 2020 monitoring event. Detectable concentrations ranged from 0.61 to 9.25 µg/L. The highest offsite concentration of PCP was in well W-25, which is located west of the Site.

No phenol was detected in any of the off-site monitoring wells in September 2020. The phenol result from W-29 was rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. As such, the presence or absence cannot be verified.

Overall, offsite wells have shown a general decline in PCP concentrations since 2011.

4.4 Quality Assurance and Quality Control

Groundwater samples for the September 2020 monitoring event were analyzed by Nielson Research Corporation (NRC) for Analytical Laboratory Group (ALG). The case narrative in the laboratory report (Appendix A) describes the flags or footnotes associated with exceptions to standard analytical protocols and is summarized below. All results except two (W-29 and W-6I) are considered usable with the appropriate additional flags.

EPA 8270C was requested on the chain of custody (COC). However, it was agreed upon by the project manager and the contract laboratory that EPA 625.1 would be a more suitable method to achieve offsite PCP screening levels with laboratory detection limits. This method was used for all analyses.

Sample coolers for the September 2020 monitoring event arrived at the laboratory in good condition; however, some samples were above EPA's 6 degrees Celsius (˚C)

recommendation. The samples that were greater than 6 °C were submitted the same day as sampling occurred. Because large sample volumes were collected for the analysis, samples were unable to equilibrate below 6 °C before they were submitted to the analytical laboratory. Samples were received by NRC at below 6 °C.

Three samples (W-13I, W-7S, and W-12I) required dilution before analysis. Elevated detection limits (DLs) are provided.

There were no PCP detections in the method blank.

There was a systematic negative bias in recovery of 2,4,6-tribromophenol, 2-fluorophenol, and phenol-d6, the three acid fraction surrogates associated with pentachlorophenol (PCP) and phenol analysis. The recovery for phenol-d6 was especially low and was below the lower control limit of 10% in two samples (W-6I and W-29, in which PCP was not detected). Because of this low recovery, all sample results were qualified "J-," and W-6I and W-29 results for phenol were rejected (qualified "R").

One blind sample was collected during the September 2020 monitoring event from W-20I. The blind sample was analyzed for PCP. The parent sample and blind duplicate results were comparable.

5. Groundwater Extraction and Treatment System

The groundwater extraction and treatment system consists of three wells, a filtration system, and granulated activated carbon. The system was in operation approximately 183 days, from July 1, 2020 to December 31, 2020. The estimated pumping rates and extracted constituent mass are presented in Table 3.

During the second half of 2020, approximately 13.25 million gallons (MG) of groundwater were extracted and sent through the treatment system. An extracted contaminant mass for PCP was calculated based on the September 2020 analytical results for each extraction well (Table 3). In the second half of 2020, approximately 9.86 pounds of PCP was removed.

Since January 1994, approximately 671.5 MG of groundwater have been extracted and treated. Approximately 1,688 pounds of PCP have been extracted since January 1994. Polycyclic aromatic hydrocarbons (PAH) and total metals were analyzed in groundwater samples through June 2015, so a calculated mass of 4.4 pounds of PAHs and 3.6 pounds of total metals were extracted between January 1994 and June 2015. PAHs and total metals are still extracted from groundwater, but the mass removed is no longer quantified as of June 2015.

6. First Half 2021 Activities

Semiannual groundwater monitoring will be conducted for the first half of 2021 in accordance with the *Revised Monitoring Program May 2015* (Baxter, 2015), and is planned to occur in March 2021.

7. References

Baxter. 2003. Revised Groundwater Monitoring Work Plan J.H. Baxter & Co. Wood Preserving Facility, 85 Baxter Road, Eugene, Oregon. Prepared by J.H. Baxter & Co. March 7, 2003.

Baxter. 2015. Revised Monitoring Program May 2015 J.H. Baxter Eugene Site ESCI No. 55. Prepared by J.H. Baxter & Co. May 1, 2015.

DEQ. 2015. Email message from Greg Aitken, Oregon Department of Environmental Quality, to Heidi Blischke re: "RE: Groundwater Monitoring Program for the Baxter Site as Discussed at our Meeting." May 7, 2015.

Hart Crowser. 2001. Groundwater Monitoring Work Plan J.H. Baxter Wood Preserving Eugene Facility. Prepared by Hart Crowser, Inc. May 22, 2001.

Tables

Table 1. Groundwater Elevation Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Well ID	Top of Casing Elevation (ft msl)	Depth to Well Bottom (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
			9/28/2020	
W-1S	395.91	28.5	11.56	384.35
W-2S	393.16	27.6	8.71	384.45
W-2I	394.23	81.71	--	--
W-3S	395.01	33	14.38	380.63
W-4S	396.56	22.3	--	--
W-5I	396.71	75.5	--	--
W-6I	397.77	70	15.82	381.95
W-7S	397.66	20	14.97	382.69
W-8S	395.90	20.17	11.03	384.87
W-8I	393.66	82.33	8.64	385.02
W-9S	396.45	25	10.82	385.63
W-9I	396.19	67	10.33	385.86
W-11S	394.17	24.85	11.37	382.80
W-11I	394.17	83	13.42	380.75
W-12I	395.62	78.5	16.66	378.96
W-12D	395.54	133.75	--	--
W-13S	396.71	29.02	14.95	381.76
W-13I	396.15	71.46	15.13	381.02
W-13D	396.40	133.51	--	--
W-14I	395.60	77.5	13.48	382.12
W-15S	396.62	28	14.52	382.10
W-16AS	391.86	24.98	7.12	384.74
W-16AI	391.86	81.85	12.33	379.53
W-17AS	390.29	23.67	8.95	381.34
W-17AI	390.80	87.42	11.97	378.83
W-17BI	392.08	84.88	12.48	379.60
W-18AS	392.84	25.05	10.00	382.84
W-18AI	393.70	86.81	14.10	379.60
W-18BI	391.98	88.6	--	--
W-19AS	393.82	23.66	9.91	383.91
W-20I	397.10	85	--	--
W-21S	393.80	16.75	10.89	382.91
W-21I	393.80	81.42	--	--
W-22S	396.72	19.38	12.66	384.06
W-23	396.16	55.5	15.28	380.88
W-24	391.64	65	--	--
W-25	389.92	64	10.13	379.79
W-26	390.14	79	10.11	380.03
W-28	390.01	84.42	10.38	379.63
W-29	388.56	74.83	9.11	379.45
W-32	388.35	74	10.02	378.33
W-34	389.17	76	10.73	378.44
W-35	391.46	77	--	--

Notes

-- = not measured.

ft amsl = feet above mean sea level.

Table 2. Phenol Analytical Results in Groundwater Samples

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Well ID	Well Location	Sample Date	Pentachlorophenol[1] (µg/L)	Phenol[1] (µg/L)
W-6I	On-Site	9/29/2020	**2.03 J-**	0.211 R
W-7S	On-Site	9/29/2020	**1,560 J-**	0.211 UJ-
W-11S	On-Site	9/30/2020	0.571 UJ-	0.211 UJ-
W-11I	On-Site	9/30/2020	0.571 UJ-	0.211 UJ-
W-12I	On-Site	9/30/2020	**74.4 J-**	0.211 UJ-
W-13S	Extraction	9/29/2020	**1.88 J-**	0.211 UJ-
W-13I	Extraction	9/29/2020	**254 J-**	0.211 UJ-
W-17AS	Off-Site	9/28/2020	0.571 UJ-	0.211 UJ-
W-17AI	Off-Site	9/28/2020	0.571 UJ-	0.211 UJ-
W-18AI	On-Site	9/30/2020	**4.45 J-**	0.211 UJ-
W-20I	Extraction	9/29/2020	**19.5 J-**	0.211 UJ-
W-20I (Blind)	Extraction	9/29/2020	**18.1 J-**	0.211 UJ-
W-23	On-Site	9/30/2020	**12.4 J-**	0.211 UJ-
W-24	Off-Site	--	NS	NS
W-25	Off-Site	9/29/2020	**9.25 J-**	0.211 UJ-
W-26	Off-Site	9/29/2020	**0.61 J-**	0.211 UJ-
W-29	Off-Site	9/29/2020	**2.96 J-**	0.211 R
W-32	Off-Site	9/29/2020	0.571 UJ-	0.211 UJ-
Zip-O-Log	Off-Site	9/29/2020	0.571 UJ-	0.211 UJ-

Notes

[1] Pentachlorophenol and Phenol analysis by EPA method 625.1

µg/L = micrograms per liter.

Blind = duplicate sample

J- = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte and may have a potential negative bias.

U = Analyte was not detected above the sample method detection limit.

R = The result is rejected due to serious deficiencies in the ability to analyze the sample and to meet QC criteria. The presence or absence of the analyte cannot be verified.

NS = Not Sampled

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Observation Period	Well W-20I								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	20 - 30	61,012,800	361	27	0.00	19.57	0.86	0.00
03-Dec-98 to 23-Feb-99	83	25	2,988,000	74	0.43	0.00	1.84	0.01	0.00
24-Feb-99 to 03-Mar-99	8	35	403,200	74	0.43	0.00	0.25	0.00	0.00
04-Mar-99 to 02-Jun-99	92	35	4,636,800	80	0.43	0.00	3.09	0.02	0.00
02-Jun-99 to 15-Dec-99	181	35	9,122,400	97	0.00	0.00	7.39	0.00	0.00
30-Nov-99 to 13-Mar-00	104	35	5,241,600	87	0.00	0.00	3.80	0.00	0.00
13-Mar-00 to 10-Jul-00	119	35	5,997,600	87	0.00	0.00	4.34	0.00	0.00
11-Jul-00 to 30-Sept-00	82	35	4,132,800	97	0.00	0.00	3.36	0.00	0.00
01-Oct-00 to 31-Jan-01	123	35	6,199,200	98	0.00	0.00	5.05	0.00	0.00
01-Feb-01 to 30-Jun-01	150	35	7,560,000	103	0.00	0.00	6.49	0.00	0.00
01-Jul-01 to 31-Dec-01	184	35	9,273,600	104	0.00	0.00	8.01	0.00	0.00
01-Jan-02 to 30-Jun-02	151	35	7,610,400	106	0.00	0.00	6.70	0.00	0.00
01-July-02 to 31-Dec-02	183	35	9,223,200	111	0.00	0.00	8.51	0.00	0.00
01-Jan-03 to 30-Jun-03	134	35	6,753,600	100	0.00	0.00	5.66	0.00	0.00
01-July-03 to 31-Dec-03	184	35	9,273,600	135	0.00	0.00	10.41	0.00	0.00
01-Jan-04 to 30-Jun-04	180	35	9,072,000	108	0.00	0.00	8.14	0.00	0.00
01-July-04 to 31-Dec-04	155	35	7,812,000	185	0.00	0.00	12.03	0.00	0.00
01-Jan-05 to 30-Jun-05	181	35	9,122,400	196	0.00	0.00	14.92	0.00	0.00
01-July-05 to 31-Dec-05	152	35	7,660,800	117	0.00	0.00	7.45	0.00	0.00
01-Jan-06 to 30-Jun-06	176	35	8,870,400	95	0.00	0.00	7.02	0.00	0.00
01-July-06 to 31-Dec-06	184	35	9,273,600	96	0.00	0.00	7.39	0.00	0.00
01-Jan-07 to 30-Jun-07	181	35	9,122,400	83	0.00	0.00	6.31	0.00	0.00
01-July-07 to 31-Dec-07	183	35	9,223,200	78	0.00	0.00	5.98	0.00	0.00
01-Jan-08 to 30-Jun-08	180	35	9,072,000	83	0.00	0.00	6.25	0.00	0.00
01-July-08 to 31-Dec-08	177	35	8,920,800	83	0.00	0.00	6.14	0.00	0.00
01-Jan-09 to 30-Jun-09	180	35	9,072,000	47	0.00	0.00	3.53	0.00	0.00
01-July-09 to 31-Dec-09	180	35	9,072,000	49	0.95	0.00	3.74	0.07	0.00
01-Jan-10 to 30-Jun-10	181	35	9,122,400	43	0.00	0.00	3.30	0.00	0.00
01-July-10 to 31-Dec-10	181	35	9,122,400	61	0.00	0.00	4.65	0.00	0.00
01-Jan-11 to 30-Jun-11	181	35	9,122,400	115	0.00	3.65	8.75	0.00	0.28
01-July-11 to 31-Dec-11	184	35	9,273,600	44	0.00	1.57	3.41	0.00	0.12
01-Jan-12 to 30-Jun-12	163	35	8,215,200	47	0.19	0.60	3.24	0.01	0.04
01-July-12 to 31-Dec-12	183	35	9,223,200	47	0.00	0.00	3.58	0.00	0.00
01-Jan-13 to 30-Jun-13	176	35	8,870,400	24	0.00	2.11	1.78	0.00	0.16
01-July-13 to 31-Dec-13	184	35	9,273,600	37	0.00	0.36	2.89	0.00	0.03
01-Jan-14 to 30-Jun-14	181	35	9,122,400	33	0.09	2.55	2.47	0.01	0.19
01-July-14 to 31-Dec-14	183	35	9,223,200	11	0.00	2.61	0.85	0.00	0.20
01-Jan-15 to 30-Jun-15	180	35	9,072,000	47	0.00	0.55	3.56	0.00	0.04
01-Jul-15 to 31-Dec-15	183	35	9,223,200	28	--	--	2.16	--	--
01-Jan-16 to 30-Jun-16	180	35	9,072,000	28	--	--	2.12	--	--
01-Jul-16 to 31-Dec-16	183	35	9,223,200	19	--	--	1.46	--	--
01-Jan-17 to 30-Jun-17	180	35	9,072,000	19	--	--	1.44	--	--
01-Jul-17 to 31-Dec-17	183	35	9,223,200	25	--	--	1.92	--	--
01-Jan-18 to 30-Jun-18	180	35	9,072,000	25	--	--	1.89	--	--

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

01-Jul-18 to 31-Dec-18	184	35	9,273,600	16	--	--	1.24	--	--
01-Jan-19 to 30-Jun-19	180	35	9,072,000	16	--	--	1.21	--	--
01-Jul-19 to 31-Dec-19	184	35	9,273,600	21	--	--	1.63	--	--
01-Jan-20 to 30-Jun-20	180	35	9,072,000	21	--	--	1.59	--	--
01-Jul-20 to 31-Dec-20	184	35	9,273,600	55	--	--	4.22	--	--
Cumulative Amounts	--	--	456,213,600	--	--	--	242.72	0.98	1.06

Observation Period	Well W-13S								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	5	12,837,600	25,175	35	0.00	321.36	1.21	0.00
03-Dec-98 to 23-Feb-99	83	5	597,600	4,170	0.00	0.00	20.85	0.00	0.00
24-Feb-99 to 03-Mar-99	8	5	57,600	4,170	0.00	0.00	2.01	0.00	0.00
04-Mar-99 to 02-Jun-99	92	5	662,400	4,105	0.00	0.00	22.75	0.00	0.00
02-Jun-99 to 15-Dec-99	181	5	1,303,200	3,260	0.00	0.00	35.54	0.00	0.00
30-Nov-99 to 13-Mar-00	104	5	748,800	2,485	0.00	0.00	15.57	0.00	0.00
13-Mar-00 to 10-Jul-00	119	5	856,800	1,880	0.00	0.00	13.47	0.00	0.00
11-Jul-00 to 30-Sept-00	82	5	590,400	1,560	9.7	0.00	7.69	0.05	0.00
01-Oct-00 to 31-Jan-01	123	5	885,600	1,590	1.9	0.00	11.75	0.01	0.00
01-Feb-01 to 30-Jun-01	150	5	1,080,000	1,481	1.4	0.00	13.35	0.01	0.00
01-Jul-01 to 31-Dec-01	184	5	1,324,800	1,379	4.1	0.00	15.25	0.05	0.00
01-Jan-02 to 30-Jun-02	151	5	1,087,200	1,455	1.2	0.00	13.20	0.01	0.00
01-July-02 to 31-Dec-02	183	5	1,317,600	1,435	0.30	0.00	15.78	0.00	0.00
01-Jan-03 to 30-Jun-03	134	5	964,800	1,235	1.2	0.00	9.94	0.01	0.00
01-July-03 to 31-Dec-03	184	5	1,324,800	235	0.17	0.00	2.60	0.00	0.00
01-Jan-04 to 30-Jun-04	180	5	1,296,000	541	0.62	0.00	5.85	0.01	0.00
01-July-04 to 31-Dec-04	155	5	1,116,000	1,018	0.42	0.00	9.48	0.00	0.00
01-Jan-05 to 30-Jun-05	181	5	1,303,200	2,070	2.1	0.00	22.51	0.02	0.00
01-July-05 to 31-Dec-05	152	5	1,094,400	1,730	0.52	0.00	15.80	0.00	0.00
01-Jan-06 to 30-Jun-06	176	5	1,267,200	1,034	0.36	0.00	10.93	0.00	0.00
01-July-06 to 31-Dec-06	184	5	1,324,800	902	0.18	0.00	9.97	0.00	0.00
01-Jan-07 to 30-Jun-07	181	5	1,303,200	729	0.13	0.00	7.92	0.00	0.00
01-July-07 to 31-Dec-07	183	5	1,317,600	78	0.13	0.00	0.86	0.00	0.00
01-Jan-08 to 30-Jun-08	180	5	1,296,000	127	0.11	0.00	1.38	0.00	0.00
01-July-08 to 31-Dec-08	177	5	1,274,400	127	0.11	0.00	1.35	0.00	0.00
01-Jan-09 to 30-Jun-09	180	5	1,296,000	1.36	0.00	0.00	0.01	0.00	0.00
01-July-09 to 31-Dec-09	180	5	1,296,000	43	0.06	165.5	0.46	0.00	1.79
01-Jan-10 to 30-Jun-10	181	5	1,303,200	93	0.00	0.00	1.01	0.00	0.00
01-July-10 to 31-Dec-10	181	5	1,303,200	59	0.00	0.00	0.65	0.00	0.00
01-Jan-11 to 30-Jun-11	181	5	1,303,200	455	0.05	3.10	4.94	0.00	0.03
01-July-11 to 31-Dec-11	184	5	1,324,800	180	0.00	7.70	1.99	0.00	0.09
01-Jan-12 to 30-Jun-12	163	5	1,173,600	590	0.54	3.61	5.78	0.01	0.04
01-July-12 to 31-Dec-12	183	5	1,317,600	428	0.08	4.28	4.70	0.00	0.05
01-Jan-13 to 30-Jun-13	176	5	1,267,200	1,400	0.44	4.95	14.81	0.00	0.05
01-July-13 to 31-Dec-13	184	5	1,324,800	515	1.1	4.63	5.69	0.01	0.05
01-Jan-14 to 30-Jun-14	181	5	1,303,200	168	0.10	3.55	1.82	0.00	0.04
01-July-14 to 31-Dec-14	183	5	1,317,600	85	0.00	2.81	0.93	0.00	0.03
01-Jan-15 to 30-Jun-15	180	5	1,296,000	20	0.00	7.9	0.21	0.00	0.09
01-July-15 to 31-Dec-15	183	5	1,317,600	2.7	--	--	0.03	--	--

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

01-Jan-16 to 30-Jun-16	180	5	1,296,000	2.7	--	--	0.03	--	--
01-Jul-16 to 31-Dec-16	183	5	1,317,600	4.8	--	--	0.05	--	--
01-Jan-17 to 30-Jun-17	180	5	1,296,000	4.8	--	--	0.05	--	--
01-Jul-17 to 31-Dec-17	183	5	1,317,600	8	--	--	0.09	--	--
01-Jan-18 to 30-Jun-18	180	5	1,296,000	8	--	--	0.09	--	--
01-Jul-18 to 31-Dec-18	184	5	1,324,800	8.5	--	--	0.09	--	--
01-Jan-19 to 30-Jun-19	180	5	1,296,000	8.5	--	--	0.09	--	--
01-Jul-19 to 31-Dec-19	184	5	1,324,800	4.6	--	--	0.05	--	--
01-Jan-20 to 30-Jun-20	180	5	1,296,000	4.6	--	--	0.05	--	--
01-Jul-20 to 31-Dec-20	184	5	1,324,800	1.88	--	--	0.02	--	--
Cumulative Amounts	--	--	69,465,600	--	--	--	650.81	1.40	2.26

Observation Period	Well W-13I								
	Pumping Information			Average Concentrations[1,2,3]			Estimated Mass Extracted[4]		
	Days Pumping	Rate[5]	Volume	PCP	PAHs	Metals	PCP	PAHs	Metals
	(days)	(gpm)	(gallons)	(µg/L)	(µg/L)	(µg/L)	(pounds)	(pounds)	(pounds)
01-Jan-94 to 02-Dec-98	1,783	10 - 15	32,522,400	3,196	35	0.00	124.69	1.44	0.00
03-Dec-98 to 23-Feb-99	83	10	1,195,200	590	0.00	0.00	5.90	0.00	0.00
24-Feb-99 to 03-Mar-99	8	10	115,200	590	0.00	0.00	0.57	0.00	0.00
04-Mar-99 to 02-Jun-99	92	10	1,324,800	640	0.00	0.00	7.09	0.00	0.00
02-Jun-99 to 15-Dec-99	181	10	2,606,400	876	0.00	0.00	19.10	0.00	0.00
30-Nov-99 to 13-Mar-00	104	10	1,497,600	823	0.00	0.00	10.30	0.00	0.00
13-Mar-00 to 10-Jul-00	119	10	1,713,600	785	0.95	0.00	11.25	0.01	0.00
11-Jul-00 to 30-Sept-00	82	10	1,180,800	803	9.6	0.00	7.91	0.09	0.00
01-Oct-00 to 31-Jan-01	123	10	1,771,200	747	1.8	0.00	11.04	0.03	0.00
01-Feb-01 to 30-Jun-01	150	10	2,160,000	778	1.4	0.00	14.02	0.02	0.00
01-Jul-01 to 31-Dec-01	184	10	2,649,600	887	1.2	0.00	19.61	0.03	0.00
01-Jan-02 to 30-Jun-02	151	10	2,174,400	672	0.55	0.00	12.19	0.01	0.00
01-July-02 to 31-Dec-02	183	10	2,635,200	1,025	0.85	0.00	22.54	0.02	0.00
01-Jan-03 to 30-Jun-03	134	10	1,929,600	829	0.80	0.00	13.35	0.01	0.00
01-July-03 to 31-Dec-03	184	10	2,649,600	883	1.2	0.00	19.51	0.03	0.00
01-Jan-04 to 30-Jun-04	180	10	2,592,000	859	1.2	0.00	18.59	0.03	0.00
01-July-04 to 31-Dec-04	155	10	2,232,000	1,260	1.3	0.00	23.47	0.02	0.00
01-Jan-05 to 30-Jun-05	181	10	2,606,400	942	1.4	0.00	20.48	0.03	0.00
01-July-05 to 31-Dec-05	152	10	2,188,800	970	1.3	0.00	17.72	0.02	0.00
01-Jan-06 to 30-Jun-06	176	10	2,534,400	897	0.88	0.00	18.97	0.02	0.00
01-July-06 to 31-Dec-06	184	10	2,649,600	865	0.43	0.00	19.13	0.01	0.00
01-Jan-07 to 30-Jun-07	181	10	2,606,400	857	0.63	0.00	18.64	0.01	0.00
01-July-07 to 31-Dec-07	183	10	2,635,200	623	1.5	0.00	13.70	0.03	0.00
01-Jan-08 to 30-Jun-08	180	10	2,592,000	866	0.53	0.00	18.73	0.01	0.00
01-July-08 to 31-Dec-08	177	10	2,548,800	866	0.53	0.00	18.41	0.01	0.00
01-Jan-09 to 30-Jun-09	180	10	2,592,000	729	0.32	0.00	15.77	0.01	0.00
01-July-09 to 31-Dec-09	180	10	2,592,000	805	0.95	0.00	17.42	0.02	0.00
01-Jan-10 to 30-Jun-10	181	10	2,606,400	639	0.68	0.00	13.90	0.01	0.00
01-July-10 to 31-Dec-10	181	10	2,606,400	754	0.33	0.00	16.40	0.01	0.00
01-Jan-11 to 30-Jun-11	181	10	2,606,400	1,298	0.30	2.45	28.22	0.01	0.05
01-July-11 to 31-Dec-11	184	10	2,649,600	980	0.50	1.18	21.67	0.01	0.03
01-Jan-12 to 30-Jun-12	163	10	2,347,200	700	0.40	2.73	13.71	0.01	0.05
01-July-12 to 31-Dec-12	183	10	2,635,200	830	1.1	1.56	18.25	0.02	0.03

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

01-Jan-13 to 30-Jun-13	176	10	2,534,400	1,050	1.1	2.55	22.21	0.02	0.05
01-July-13 to 31-Dec-13	184	10	2,649,600	970	1.2	0.28	21.45	0.03	0.01
01-Jan-14 to 30-Jun-14	181	10	2,606,400	533	0.29	1.95	11.58	0.01	0.04
01-July-14 to 31-Dec-14	183	10	2,635,200	563	0.20	0.26	12.37	0.00	0.01
01-Jan-15 to 30-Jun-15	180	10	2,592,000	385	0.20	0.00	8.33	0.00	0.00
01-Jul-15 to 31-Dec-15	183	10	2,635,200	490	--	--	10.78	--	--
01-Jan-16 to 30-Jun-16	181	10	2,606,400	490	--	--	10.66	--	--
01-Jul-16 to 31-Dec-16	183	10	2,635,200	350	--	--	7.70	--	--
01-Jan-17 to 30-Jun-17	181	10	2,606,400	350	--	--	7.61	--	--
01-Jul-17 to 31-Dec-17	183	10	2,635,200	350	--	--	7.70	--	--
01-Jan-18 to 30-Jun-18	181	10	2,606,400	350	--	--	7.61	--	--
01-Jul-18 to 31-Dec-18	184	10	2,649,600	370	--	--	8.18	--	--
01-Jan-19 to 30-Jun-19	180	10	2,592,000	370	--	--	8.00	--	--
01-Jul-19 to 31-Dec-19	184	10	2,649,600	290	--	--	6.41	--	--
01-Jan-20 to 30-Jun-20	180	10	2,592,000	290	--	--	6.27	--	--
01-Jul-20 to 31-Dec-20	184	10	2,649,600	254	--	--	5.62	--	--
Cumulative Amounts	--	--	145,821,600	--	--	--	794.73	2.05	0.27
TOTALS	--	--	**671,500,800**	--	--	--	**1,688.26**	**4.43**	**3.58**

Notes

[1] Concentrations are averages of detected values from quarterly analytical results or from semi-annual sampling analytical results once quarterly sampling ended. For metals, the concentration is averageof the sum for each sampling event.

[2] Field duplicate values averaged with parent value before calculating the average concentration for the observation period.

[3] No value assigned to concentrations below the method reporting limit.

[4] Estimated mass calculated on the basis of corrected average concentrations.

[5] Flow rate estimated based upon pump capacity

-- = data not available or not applicable.

µg/L = micrograms per liter.

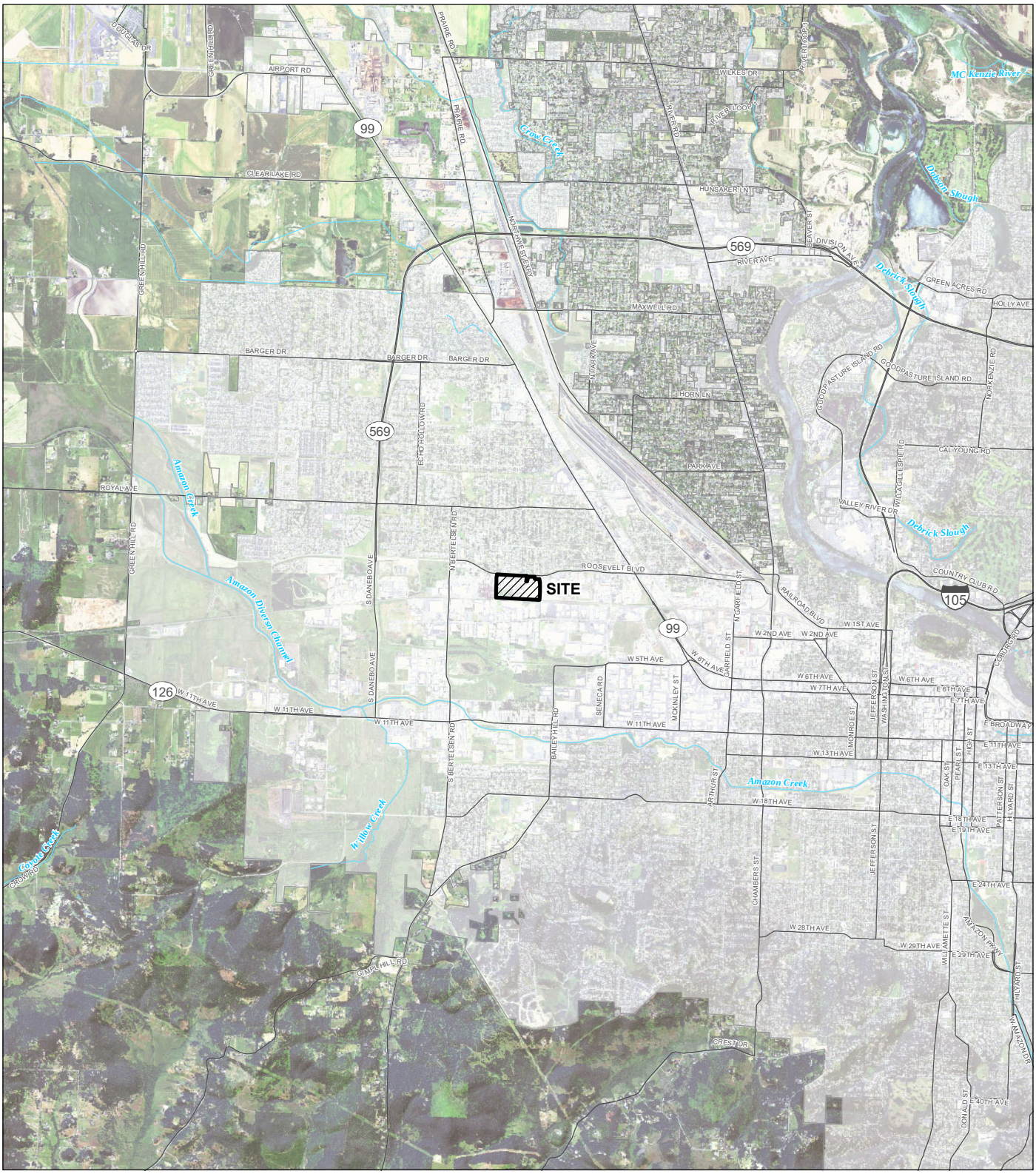
gpm = gallons per minute.

PCP = pentachlorophenol.

PAHs = polycyclic aromatic hydrocarbons.

Metals = total arsenic, total chromium, total copper, and total zinc.

Figures



LEGEND

- Eugene City Limits
- Major Roads
- Watercourses

MAP NOTES:
Date: July 25, 2016
Data Sources: Air photo taken on June 11, 2014 by the USDA

FIGURE 1

Site Vicinity Map

J.H. Baxter Wood Treating Facility
Eugene, Oregon

N

0 0.5 1
Miles

GSI Water Solutions, Inc.

Document Path: P:\Portland\302 - Baxter\GIS\Eugene\Project_mxds\2016_1h_Report\Figure1_Site_Vicinity_Map.mxd

FIGURE 2

Site Detail Map

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Facility Boundary
- Union Pacific Railroad

N

0 100 200 300
Feet

MAP NOTES:
Date: July 25, 2016
Data Sources: AMEC, OGIC, ESRI, Air photo taken on June 6, 2014 by Google Earth

GSI Water Solutions, Inc.

Document Path: P:\Portland\302 - Baxter\GIS\Eugene\Project_mxds\2016_1h_Report\Figure2_Site_Detail_Map.mxd

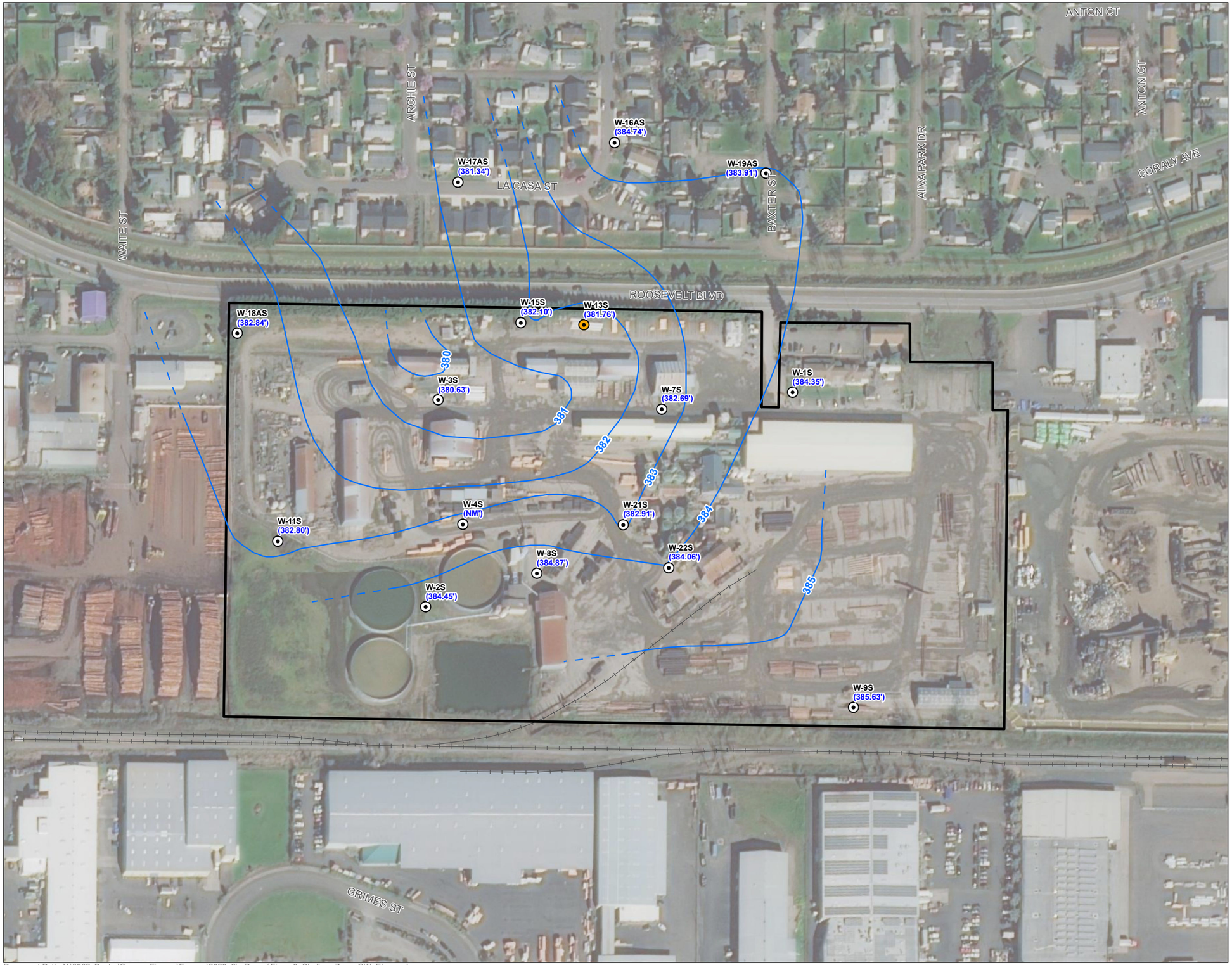


FIGURE 3

Shallow Zone Groundwater Elevation, Second Half 2020

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Shallow Zone Monitoring Well (September 2020 Groundwater Elevation)
- Shallow Zone Extraction Well (September 2020 Groundwater Elevation)
- Groundwater Elevation Contours (dashed where inferred)
- Groundwater Flow Direction
- Facility Boundary
- Union Pacific Railroad

NOTE:
NM = Not Measured

N

0 100 200 300
Feet

Date: January 11, 2021
Data Sources: AMEC, OGIC, ESRI

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Eugene\2020_2h_Report\Figure3_Shallow_Zone_GW_Elev.mxd

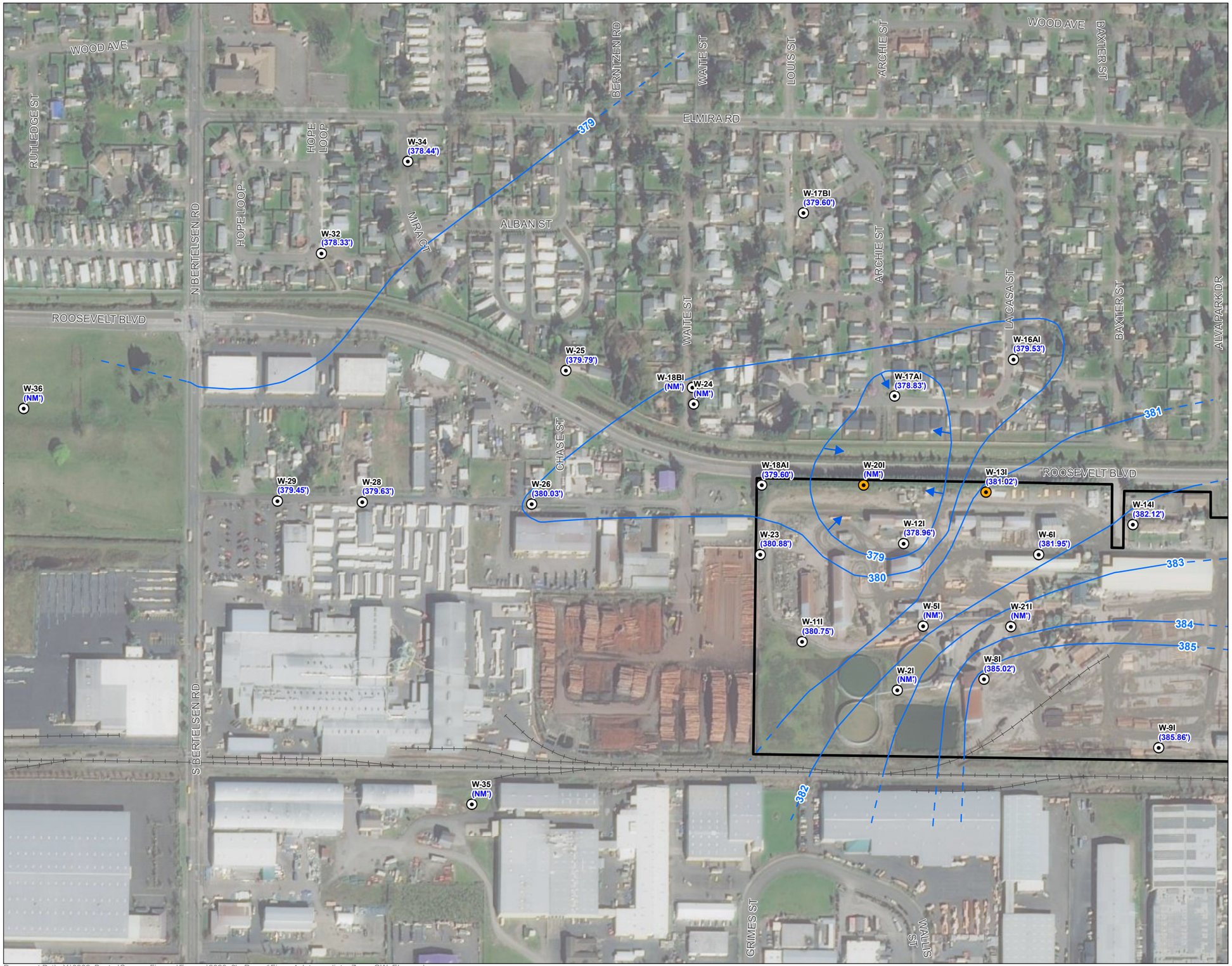


FIGURE 4

Intermediate Zone Groundwater Elevation, Second Half 2020

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Shallow Zone Monitoring Well (September 2020 Groundwater Elevation)
- Shallow Zone Extraction Well (September 2020 Groundwater Elevation)
- Groundwater Elevation Contours (dashed where inferred)
- Groundwater Flow Direction
- Facility Boundary
- Union Pacific Railroad

NOTE:
NM = Not Measured

N

0 100 200 300
Feet

Date: January 11, 2021
Data Sources: AMEC, OGIC, ESRI

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Eugene\2020_2h_Report\Figure4_Intermediate_Zone_GW_Elev.mxd

FIGURE 5

Pentachlorophenol in Groundwater, Second Half 2020

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Monitoring Well
- Extraction Well
- Facility Boundary
- Union Pacific Railroad

NOTES:

1. Results in µg/L (microgram per liter).
2. Abbreviations:
   NS = Not Sampled
   J- = The analyte was positively identified; the associated numerical value is the approximate concentration of the analytein the sample, and may have a potential negative bias.
   U = Analyte was not detected above the sample method detection limit.
   R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N

0 175 350
Feet

Date: January 25, 2021
Data Sources: AMEC, OGIC, ESRI, Air photo taken on June 6, 2014 by Google Earth

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Eugene\2020_2h_Report\Figure5_PCP_in_GW.mxd

Appendix A

ALG ANALYTICAL LABORATORY GROUP
Delivering more than just test results

ALG ORELAP ID #OR100012
361 West 5th Ave
Eugene, OR 97401
TEL: (541) 485-8404 FAX: (541) 484-5995
Website:

Jeanne Olson
J.H. Baxter & Co.
85 Baxter Street
Eugene, OR 97402
TEL: (541) 689-3801
FAX:

RE: Groundwater Wells Order No.: 2009B74

Dear Jeanne Olson:

Analytical Laboratory Group received 13 sample(s) on 9/29/2020 for the analyses presented in the following report.

The analysis was performed according to our laboratory's NELAP/TNI-approved quality assurance program. Any exceptions to this quality assurance program are noted on the case narrative.

Testing methods used are sufficiently sensitive enough to meet the requirements that support client/permittee NPDES permits that we have on file. The client is responsible for reviewing reports. The permittee is responsible for meeting permit limits.

Quality control data is within laboratory defined or method specified acceptance limits except if noted on the case narrative.

If you have any questions regarding these tests results, please feel free to call.

Kimberly Reever Morghan
Quality Manager
361 West 5th Ave
Eugene, OR 97401

ALG ANALYTICAL LABORATORY GROUP
Delivering more than just test results

ALG ORELAP ID #OR100012
361 West 5th Ave
Eugene, OR 97401
TEL: (541) 485-8404 FAX: (541) 484-5995
Website:

Case Narrative

WO#: **2009B74**
Date:

CLIENT: J.H. Baxter & Co.
Project: Groundwater Wells

This report presents the results of the analyses of the sample(s) received on the date above and assigned the listed Analytical Laboratory Group Analytical Report numbers. Test results relate only to the parameters tested and to the samples as received by the laboratory.

All analyses were performed according to the Analytical Laboratory Group, Inc. Quality Assurance Program. All QA/QC requirements were met except as noted below.

Analytical comments are noted with qualifiers (see "Qual" column) or data flags on the reports and/or below.

Pentachlorophenol and Phenol by EPA 625 were analyzed by Neilson Research Corporation, Medford OR; ORELAP ID# OR100016. No anomalies associated with the analysis of these sample(s) were reported except as noted in the NRC Case Narrative or qualified with data flags on the NRC report.

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

October 13, 2020

Katrina Garcia
Analytical Laboratory Group, Inc.
361 West Fifth Avenue
Eugene, OR 97401
TEL: (800) 262-5973
FAX: (541) 484-5995

RE: 2009B74 Order No.: 20100013

Dear Katrina Garcia:

Neilson Research Corporation received 13 sample(s) on 10/1/2020 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **20100013**
Date: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Project: 2009B74

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-01
Client Sample ID 2009B74-001
Project: 2009B74
Sample Location: W-17AI

Collection Date: 9/28/2020 3:00:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/02/20 17:00	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 17:00	TJW
Surr: 4-Terphenyl-d14	E625		109		1		50 - 140	%Rec		10/02/20 17:00	TJW
Surr: 2,4,6-Tribromophenol	E625		76.9		1		20 - 140	%Rec		10/02/20 17:00	TJW
Surr: 2-Fluorobiphenyl	E625		84.7		1		40 - 140	%Rec		10/02/20 17:00	TJW
Surr: 2-Fluorophenol	E625		41.8		1		10 - 120	%Rec		10/02/20 17:00	TJW
Surr: Nitrobenzene-d5	E625		82.6		1		40 - 140	%Rec		10/02/20 17:00	TJW
Surr: Phenol-d6	E625		25.8		1	0	10 - 110	%Rec		10/02/20 17:00	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits

Original

NELAP

NELAP A Accredited. ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-02
Client Sample ID 2009B74-002
Project: 2009B74
Sample Location: W-17AS

Collection Date: 9/28/2020 3:34:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/02/20 18:21	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 18:21	TJW
Surr: 4-Terphenyl-d14	E625		84.9		1		50 - 140	%Rec		10/02/20 18:21	TJW
Surr: 2,4,6-Tribromophenol	E625		30.1		1		20 - 140	%Rec		10/02/20 18:21	TJW
Surr: 2-Fluorobiphenyl	E625		69.7		1		40 - 140	%Rec		10/02/20 18:21	TJW
Surr: 2-Fluorophenol	E625		18.1		1		10 - 120	%Rec		10/02/20 18:21	TJW
Surr: Nitrobenzene-d5	E625		68.5		1		40 - 140	%Rec		10/02/20 18:21	TJW
Surr: Phenol-d6	E625		11.0		1	0	10 - 110	%Rec		10/02/20 18:21	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

Original

NELAP NELAP A Accredited. ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-03
Client Sample ID 2009B74-003
Project: 2009B74
Sample Location: W-13S

Collection Date: 9/29/2020 7:40:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	1.88		1	0.571	1.00	µg/L		10/02/20 18:48	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 18:48	TJW
Surr: 4-Terphenyl-d14	E625		96.5		1		50 - 140	%Rec		10/02/20 18:48	TJW
Surr: 2,4,6-Tribromophenol	E625		36.4		1		20 - 140	%Rec		10/02/20 18:48	TJW
Surr: 2-Fluorobiphenyl	E625		77.1		1		40 - 140	%Rec		10/02/20 18:48	TJW
Surr: 2-Fluorophenol	E625		17.0		1		10 - 120	%Rec		10/02/20 18:48	TJW
Surr: Nitrobenzene-d5	E625		76.2		1		40 - 140	%Rec		10/02/20 18:48	TJW
Surr: Phenol-d6	E625		10.6		1	0	10 - 110	%Rec		10/02/20 18:48	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

Original

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Website: www.nrclabs.com

Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-04
Client Sample ID 2009B74-004
Project: 2009B74
Sample Location: W-13I

Collection Date: 9/29/2020 7:45:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	254		10	5.71	10.0	µg/L		10/05/20 17:23	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 19:15	TJW
Surr: 4-Terphenyl-d14	E625		88.2		1		50 - 140	%Rec		10/02/20 19:15	TJW
Surr: 2,4,6-Tribromophenol	E625		34.1		1		20 - 140	%Rec		10/02/20 19:15	TJW
Surr: 2-Fluorobiphenyl	E625		69.0		1		40 - 140	%Rec		10/02/20 19:15	TJW
Surr: 2-Fluorophenol	E625		16.6		1		10 - 120	%Rec		10/02/20 19:15	TJW
Surr: Nitrobenzene-d5	E625		65.2		1		40 - 140	%Rec		10/02/20 19:15	TJW
Surr: Phenol-d6	E625		10.5		1	0	10 - 110	%Rec		10/02/20 19:15	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-05
Client Sample ID 2009B74-005
Project: 2009B74
Sample Location: W-20I

Collection Date: 9/29/2020 7:50:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	19.5		1	0.571	1.00	µg/L		10/02/20 19:42	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 19:42	TJW
Surr: 4-Terphenyl-d14	E625		92.6		1		50 - 140	%Rec		10/02/20 19:42	TJW
Surr: 2,4,6-Tribromophenol	E625		35.2		1		20 - 140	%Rec		10/02/20 19:42	TJW
Surr: 2-Fluorobiphenyl	E625		76.1		1		40 - 140	%Rec		10/02/20 19:42	TJW
Surr: 2-Fluorophenol	E625		20.1		1		10 - 120	%Rec		10/02/20 19:42	TJW
Surr: Nitrobenzene-d5	E625		71.9		1		40 - 140	%Rec		10/02/20 19:42	TJW
Surr: Phenol-d6	E625		12.0		1	0	10 - 110	%Rec		10/02/20 19:42	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-06
Client Sample ID 2009B74-006
Project: 2009B74
Sample Location: Zippo

Collection Date: 9/29/2020 8:50:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/02/20 20:08	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 20:08	TJW
Surr: 4-Terphenyl-d14	E625		88.0		1		50 - 140	%Rec		10/02/20 20:08	TJW
Surr: 2,4,6-Tribromophenol	E625		32.6		1		20 - 140	%Rec		10/02/20 20:08	TJW
Surr: 2-Fluorobiphenyl	E625		68.4		1		40 - 140	%Rec		10/02/20 20:08	TJW
Surr: 2-Fluorophenol	E625		17.0		1		10 - 120	%Rec		10/02/20 20:08	TJW
Surr: Nitrobenzene-d5	E625		64.6		1		40 - 140	%Rec		10/02/20 20:08	TJW
Surr: Phenol-d6	E625		10.5		1	0	10 - 110	%Rec		10/02/20 20:08	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-07
Client Sample ID 2009B74-007
Project: 2009B74
Sample Location: W-32

Collection Date: 9/29/2020 9:57:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/02/20 20:35	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 20:35	TJW
Surr: 4-Terphenyl-d14	E625		90.8		1		50 - 140	%Rec		10/02/20 20:35	TJW
Surr: 2,4,6-Tribromophenol	E625		34.3		1		20 - 140	%Rec		10/02/20 20:35	TJW
Surr: 2-Fluorobiphenyl	E625		75.5		1		40 - 140	%Rec		10/02/20 20:35	TJW
Surr: 2-Fluorophenol	E625		17.8		1		10 - 120	%Rec		10/02/20 20:35	TJW
Surr: Nitrobenzene-d5	E625		72.6		1		40 - 140	%Rec		10/02/20 20:35	TJW
Surr: Phenol-d6	E625		10.7		1	0	10 - 110	%Rec		10/02/20 20:35	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-08
Client Sample ID 2009B74-008
Project: 2009B74
Sample Location: W-25

Collection Date: 9/29/2020 11:05:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	9.25		1	0.571	1.00	µg/L		10/02/20 21:02	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 21:02	TJW
Surr: 4-Terphenyl-d14	E625		94.3		1		50 - 140	%Rec		10/02/20 21:02	TJW
Surr: 2,4,6-Tribromophenol	E625		35.4		1		20 - 140	%Rec		10/02/20 21:02	TJW
Surr: 2-Fluorobiphenyl	E625		77.0		1		40 - 140	%Rec		10/02/20 21:02	TJW
Surr: 2-Fluorophenol	E625		18.2		1		10 - 120	%Rec		10/02/20 21:02	TJW
Surr: Nitrobenzene-d5	E625		73.5		1		40 - 140	%Rec		10/02/20 21:02	TJW
Surr: Phenol-d6	E625		11.5		1	0	10 - 110	%Rec		10/02/20 21:02	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-09
Client Sample ID 2009B74-009
Project: 2009B74
Sample Location: W-29

Collection Date: 9/29/2020 12:12:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	2.96		1	0.571	1.00	µg/L		10/02/20 21:29	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 21:29	TJW
Surr: 4-Terphenyl-d14	E625		88.8		1		50 - 140	%Rec		10/02/20 21:29	TJW
Surr: 2,4,6-Tribromophenol	E625		32.3		1		20 - 140	%Rec		10/02/20 21:29	TJW
Surr: 2-Fluorobiphenyl	E625		73.3		1		40 - 140	%Rec		10/02/20 21:29	TJW
Surr: 2-Fluorophenol	E625		16.3		1		10 - 120	%Rec		10/02/20 21:29	TJW
Surr: Nitrobenzene-d5	E625		70.2		1		40 - 140	%Rec		10/02/20 21:29	TJW
Surr: Phenol-d6	E625		9.92	S	1	0	10 - 110	%Rec		10/02/20 21:29	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-10
Client Sample ID 2009B74-010A
Project: 2009B74
Sample Location: Dup-1

Collection Date: 9/29/2020 8:15:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	18.1		1	0.571	1.00	µg/L		10/02/20 21:56	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 21:56	TJW
Surr: 4-Terphenyl-d14	E625		92.2		1		50 - 140	%Rec		10/02/20 21:56	TJW
Surr: 2,4,6-Tribromophenol	E625		34.4		1		20 - 140	%Rec		10/02/20 21:56	TJW
Surr: 2-Fluorobiphenyl	E625		72.0		1		40 - 140	%Rec		10/02/20 21:56	TJW
Surr: 2-Fluorophenol	E625		17.8		1		10 - 120	%Rec		10/02/20 21:56	TJW
Surr: Nitrobenzene-d5	E625		70.1		1		40 - 140	%Rec		10/02/20 21:56	TJW
Surr: Phenol-d6	E625		11.2		1	0	10 - 110	%Rec		10/02/20 21:56	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-11
Client Sample ID 2009B74-011A
Project: 2009B74
Sample Location: W-26

Collection Date: 9/29/2020 1:19:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	0.610	J	1	0.571	1.00	µg/L		10/03/20 1:04	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/03/20 1:04	TJW
Surr: 4-Terphenyl-d14	E625		101		1		50 - 140	%Rec		10/03/20 1:04	TJW
Surr: 2,4,6-Tribromophenol	E625		39.1		1		20 - 140	%Rec		10/03/20 1:04	TJW
Surr: 2-Fluorobiphenyl	E625		76.8		1		40 - 140	%Rec		10/03/20 1:04	TJW
Surr: 2-Fluorophenol	E625		18.9		1		10 - 120	%Rec		10/03/20 1:04	TJW
Surr: Nitrobenzene-d5	E625		70.8		1		40 - 140	%Rec		10/03/20 1:04	TJW
Surr: Phenol-d6	E625		12.1		1	0	10 - 110	%Rec		10/03/20 1:04	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-12
Client Sample ID 2009B74-012A
Project: 2009B74
Sample Location: W-7S

Collection Date: 9/29/2020 2:09:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	1560		100	57.1	100	µg/L		10/05/20 18:17	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/03/20 1:31	TJW
Surr: 4-Terphenyl-d14	E625		90.5		1		50 - 140	%Rec		10/03/20 1:31	TJW
Surr: 2,4,6-Tribromophenol	E625		26.7		1		20 - 140	%Rec		10/03/20 1:31	TJW
Surr: 2-Fluorobiphenyl	E625		80.6		1		40 - 140	%Rec		10/03/20 1:31	TJW
Surr: 2-Fluorophenol	E625		11.2		1		10 - 120	%Rec		10/03/20 1:31	TJW
Surr: Nitrobenzene-d5	E625		72.1		1		40 - 140	%Rec		10/03/20 1:31	TJW
Surr: Phenol-d6	E625		10.7		1	0	10 - 110	%Rec		10/03/20 1:31	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits

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Analytical Report

WO#: **20100013**
Date Reported: **10/13/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100013-13
Client Sample ID 2009B74-013A
Project: 2009B74
Sample Location: W-6I

Collection Date: 9/29/2020 2:45:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	2.03		1	0.571	1.00	µg/L		10/02/20 22:23	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 22:23	TJW
Surr: 4-Terphenyl-d14	E625		93.0		1		50 - 140	%Rec		10/02/20 22:23	TJW
Surr: 2,4,6-Tribromophenol	E625		34.6		1		20 - 140	%Rec		10/02/20 22:23	TJW
Surr: 2-Fluorobiphenyl	E625		71.4		1		40 - 140	%Rec		10/02/20 22:23	TJW
Surr: 2-Fluorophenol	E625		13.7		1		10 - 120	%Rec		10/02/20 22:23	TJW
Surr: Nitrobenzene-d5	E625		67.0		1		40 - 140	%Rec		10/02/20 22:23	TJW
Surr: Phenol-d6	E625		8.62	S	1	0	10 - 110	%Rec		10/02/20 22:23	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **20100013**

13-Oct-20

Client: Analytical Laboratory Group, Inc.
Project: 2009B74 **TestCode:** **EPA625.1**

Sample ID: **MB-6108** SampType: **MBLK** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **PBW** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	1.00									
Phenol	ND	1.00									
Surr: 4-Terphenyl-d14	19.9		20.00		99.7	50	140				
Surr: 2,4,6-Tribromophenol	14.5		20.00		72.5	20	140				
Surr: 2-Fluorobiphenyl	17.2		20.00		86.1	40	140				
Surr: 2-Fluorophenol	9.29		20.00		46.5	10	120				
Surr: Nitrobenzene-d5	16.9		20.00		84.5	40	140				
Surr: Phenol-d6	5.83		20.00		29.2	10	110				

Sample ID: **LCS-6108** SampType: **LCS** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **LCSW** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	7.42	1.00	10.00	0	74.2	38	151				
Phenol	2.88	1.00	10.00	0	28.8	17	110				
Surr: 4-Terphenyl-d14	20.5		20.00		102	50	140				
Surr: 2,4,6-Tribromophenol	15.9		20.00		79.4	20	140				
Surr: 2-Fluorobiphenyl	17.3		20.00		86.7	40	140				
Surr: 2-Fluorophenol	9.28		20.00		46.4	10	120				
Surr: Nitrobenzene-d5	16.9		20.00		84.7	40	140				
Surr: Phenol-d6	6.26		20.00		31.3	10	110				

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **20100013**

13-Oct-20

Client: Analytical Laboratory Group, Inc.
Project: 2009B74 **TestCode:** **EPA625.1**

Sample ID: **20100013-01AMS** SampType: **MS** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **2009B74-001** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	8.24	1.00	10.00	0	82.4	20	120				
Phenol	2.45	1.00	10.00	0	24.5	10	120				
Surr: 4-Terphenyl-d14	22.0		20.00		110	50	140				
Surr: 2,4,6-Tribromophenol	16.6		20.00		82.8	20	140				
Surr: 2-Fluorobiphenyl	17.6		20.00		88.0	40	140				
Surr: 2-Fluorophenol	8.15		20.00		40.8	10	120				
Surr: Nitrobenzene-d5	17.1		20.00		85.3	40	140				
Surr: Phenol-d6	5.20		20.00		26.0	10	110				

Sample ID: **20100013-01AMSD** SampType: **MSD** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **2009B74-001** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	8.00	1.00	10.00	0	80.0	20	120	8.240	2.96	35	
Phenol	2.51	1.00	10.00	0	25.1	10	120	2.450	2.42	35	
Surr: 4-Terphenyl-d14	20.7		20.00		103	50	140		0		
Surr: 2,4,6-Tribromophenol	16.2		20.00		81.0	20	140		0		
Surr: 2-Fluorobiphenyl	17.8		20.00		89.0	40	140		0		
Surr: 2-Fluorophenol	8.93		20.00		44.6	10	120		0		
Surr: Nitrobenzene-d5	17.4		20.00		86.8	40	140		0		
Surr: Phenol-d6	5.45		20.00		27.3	10	110		0		

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Sample Log-In Check List

Client Name: **AnalyticalLab** Work Order Number: **20100013** RcptNo: **1**

Logged by:	**Denise Neal**	**10/1/2020 12:20:00 PM**	Denise Neal
Completed By:	**Tamra Schmedemann**	**10/13/2020 11:33:53 AM**	Tamra Schmedemann
Reviewed By:	**Tamra Schmedemann**	**10/13/2020 11:34:00 AM**	Tamra Schmedemann

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☐	NA ☑
				NA
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
8	2.3	Good				TRS

Lab Order Number 20100013

Analytical Laboratory Group, Inc.

361 WEST FIFTH AVENUE
EUGENE, OREGON 97401
800-262-5973/541-485-8404 Fax 541-484-5995
Email: alglabs@alglabsinc.com

ALG ANALYTICAL LABORATORY GROUP Delivering more than just test results

CHAIN OF CUSTODY

Attention:	Cynthia O'Kelley	**Client:**	Analytical Laboratory Group, Inc
Phone:	541-485-8404	**Address:**	361 West 5th Avenue
Fax:	541-484-5995		Eugene, OR 97401
Client Project:	Neilson Research	**Source:**	Environmental — **ALG PO#** 201001-05

Lab ID	ALG Sample ID	ALG Sample Point	Sample Matrix & Description Grab/Comp	Collection Date	Collection Time	Bottles	Analysis Requested
01	2009B74-001A	W-17AI	EW/Grab	9/28/20	1500	(3) 625	Pentachlorophenol and Phenol by EPA 625
02	2009B74-002A	W-17AS	EW/Grab	9/28/20	1534	(3) 625	Pentachlorophenol and Phenol by EPA 625
03	2009B74-003A	W-13S	EW/Grab	9/29/20	0740	(3) 625	Pentachlorophenol and Phenol by EPA 625
04	2009B74-004A	W-13I	EW/Grab	9/29/20	0745	(3) 625	Pentachlorophenol and Phenol by EPA 625
05	2009B74-005A	W-20I	EW/Grab	9/29/20	0750	(3) 625	Pentachlorophenol and Phenol by EPA 625
06	2009B74-006A	Zippo	EW/Grab	9/29/20	0850	(3) 625	Pentachlorophenol and Phenol by EPA 625
07	2009B74-007A	W-32	EW/Grab	9/29/20	0957	(3) 625	Pentachlorophenol and Phenol by EPA 625
08	2009B74-008A	W-25	EW/Grab	9/29/20	1105	(3) 625	Pentachlorophenol and Phenol by EPA 625

Notes:
Please Return Shipper
Include: MDL

Turn Around Time Requested: Normal			**Shipped Via:** Client	**Refrigerated** YES 2.3	
COC and PO made by: Cynthia O'Kelley	**Date** 10/2/20	**Time** 11:01	**Received by:**	**Date**	**Time**
Relinquished by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Relinquished by:	**Date**	**Time**	**Received by Laboratory:** BNeal	**Date** 10/1/2020	**Time** 12:20pm

Note: Standard Terms and Conditions on Reverse Page ____ of ____

Lab Order Number 201000013

Analytical Laboratory Group, Inc.

361 WEST FIFTH AVENUE
EUGENE, OREGON 97401
800-262-5973/541-485-8404 Fax 541-484-5995
Email: alglabs@alglabsinc.com

ALG ANALYTICAL LABORATORY GROUP

Delivering more than just test results

CHAIN OF CUSTODY

Attention:	Cynthia O'Kelley	**Client:**	Analytical Laboratory Group, Inc
Phone:	541-485-8404	**Address:**	361 West 5th Avenue
Fax:	541-484-5995		Eugene, OR 97401
Client Project:	Neilson Research	**Source:**	Environmental — **ALG PO#** 201001-05

Lab ID	ALG Sample ID	ALG Sample Point	Sample Matrix & Description Grab/Comp	Collection Date	Collection Time	Bottles	Analysis Requested
09	2009B74-009A	W-29	EW/Grab	9/29/20	1212	(3) 625	Pentachlorophenol and Phenol by EPA 625
10	2009B74-010A	Dup-1	EW/Grab	9/29/20	0815	(3) 625	Pentachlorophenol and Phenol by EPA 625
11	2009B74-011A	W-26	EW/Grab	9/29/20	1319	(3) 625	Pentachlorophenol and Phenol by EPA 625
12	2009B74-012A	W-7S	EW/Grab	9/29/20	1409	(3) 625	Pentachlorophenol and Phenol by EPA 625
13	2009B74-013A	W-6I	EW/Grab	9/29/20	1445	(3) 625	Pentachlorophenol and Phenol by EPA 625

Notes:
Please Return Shipper
Include: MDL

Turn Around Time Requested:	**Shipped Via:**	**Refrigerated**
Normal	Client	YES 23

COC and PO made by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Cynthia O'Kelley	10/2/20	11:01			
Relinquished by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Relinquished by:	**Date**	**Time**	**Received by Laboratory:**	**Date**	**Time**
			DMead	10/2/20	12:20pm

Note: Standard Terms and Conditions on Reverse

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Data Flags

WO#: **20100013**
Date: **10/13/2020**

B Analyte detected in the associated method blank.
BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
CF Results confirmed by re-analysis.
CU Cleanup performed as specified by method.
D1 The diesel elution pattern for the sample is not typical.
D2 The sample appears to be a heavier hydrocarbon range than diesel.
D3 The sample appears to be a lighter hydrocarbon range than diesel.
D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
E Estimated value.
ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
G1 The gasoline elution pattern for the sample is not typical.
G2 The sample appears to be a heavier hydrocarbon range than gasoline.
G3 The sample appears to be a lighter hydrocarbon range than gasoline.
G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
HP Sample re-analysis performed outside of method specified holding time.
HR Sample received outside of method specified holding time.
HS Sample analyzed for volatile organics contained headspace.
HT At the client's request, the sample was analyzed outside of method specified holding time.
H Analysis performed outside of method specified holding time.
J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
N See Case Narrative on page 2 of report.
NLR No Legionella Recovered.
PLR Presence of Legionella Recovered.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
R Relative percent difference (RPD) is outside of the accepted recovery limits.
R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
R4 Duplicate analysis failed due to result being at or near the method reporting limit.
S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
SC Sub-contracted to another laboratory for analysis.
SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
Value exceeds regulatory level for TCLP contaminant.
X1 The motor oil elution pattern for the sample is not typical.
X2 The sample appears to be a heavier hydrocarbon range than motor oil.
X3 The sample appears to be a lighter hydrocarbon range than motor oil.
* Value exceeds Maximum Contaminant Level or is outside the acceptable range.

Work Order # 2009B74

LIMS:
Checked: DW

ALG ANALYTICAL LABORATORY GROUP
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361 WEST FIFTH AVENUE
EUGENE, OREGON 97401
Phone: 541-485-8404 Fax: 541-484-5995
Email: alglabs@alglabsinc.com

EW GENERAL CHAIN OF CUSTODY

Report to:	Jeanne Olson, Josh Bale	Company:	J.H. Baxter & Co.
Phone:	541-689-3801	Address:	85 Baxter Street
Email:	jolson@jhbaxter.com, Jbale@gsiws.com	City, State, Zip:	Eugene, OR 97402
Client Project:	Groundwater wells	Sampler Name:	Joe Sherrod

Sample Point	Sample Matrix & Grab/Comp	Collection Date	Collection Time	Analysis Requested	Bottles -Lab Use Only Type	#	Pres	T °C	Lab ID
W-17AI	EW/Grab	9/28/20	1500	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		3.5 3.8 3.7	001A
W-17AS	EW/Grab	9/28/20	1534	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		3.4 3.6 3.3	002A
W-13S	EW/Grab	9/29/20	0740	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		11.9 9.1 10.3	003A
W-13I	EW/Grab	9/29/20	0745	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		9.3 10.1 10.5	004A
W-20I	EW/Grab	9/29/20	0750	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		9.9 10.0 9.1	005A
Zippo	EW/Grab	9/29/20	0850	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		12.1 12.6 10.9	006A
W-32	EW/Grab	9/29/20	0957	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		10.3 9.4 9.6	007A
W-25	EW/Grab	9/29/20	1105	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		12.3 11.2 11.6	008A
W-29	EW/Grab	9/29/20	1212	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		12.1 11.4 12.1	009A
Dup-1	EW/Grab	9/29/20	0815	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		4.7 4.4 4.7	010A

Notes: Corrected method/bottle. 10/2/20 CO

MDL= 0.65 ug/L

Preservation Check

Lab ID	Date/Time	Pre-Preserved	pH	Tech

Turn Around Time Requested (Rush incurs a Surcharge): ☑ NORMAL ☐ RUSH

Shipped Via: ALG Courier

Refrigerated: Ice / None

	Date	Time		Date	Time
Relinquished by:	9/29/20	1535	Received by:	9/29/20	1535
Relinquished by:			Received by:		
Relinquished by:	9/29/20	1550	Received by Laboratory:	9/29/20	1550

Work Order # 2009B74

LIMS: [illegible]
Checked: [illegible]

ALG
ANALYTICAL LABORATORY GROUP
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EUGENE, OREGON 97401
Phone: 541-485-8404 Fax: 541-484-5995
Email: alglabs@alglabsinc.com

EW GENERAL CHAIN OF CUSTODY

Report to:	Jeanne Olson, Josh Bale	Company:	J.H. Baxter & Co.
Phone:	541-689-3801	Address:	85 Baxter Street
Email:	jolson@jhbaxter.com, jbale@gsiws.com	City, State, Zip:	Eugene, OR 97402
Client Project:	Groundwater wells	Sampler Name:	Joe Sherrod

Sample Point	Sample Matrix & Grab/Comp	Collection Date	Collection Time	Analysis Requested	Bottles -Lab Use Only Type	#	Pres	T °C	Lab ID
W-26	EW/Grab	9/29/20	1319	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		12.8 12.1 12.1	011A
W-7S	EW/Grab	9/29/20	1409	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		14.3 15.4 16.3	012A ~~013A~~ 09/29/20
W-6I	EW/Grab	9/29/20	1445	Phenols & Penta ~~8270C~~ 625	~~8270C~~ 625	3		14.6 8.7 12.1	013A
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			
	EW/Grab			Phenols & Penta ~~8270C~~	~~8270C~~	3			

Notes:
Corrected method/bottle 10/2/20
MDL= 0.65 ug/L

Preservation Check

Lab ID	Date/Time	Pre-Preserved	pH	Tech

Turn Around Time Requested (Rush incurs a Surcharge):
☑ NORMAL ☐ RUSH

Shipped Via: ALG Courier

Refrigerated: (Ice) None

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/29/20	1535	[signature]	9/29/20	1535
[signature]	9/29/20	1550	Received by Laboratory: [signature]	9/29/20	1550

J.H. Baxter 9-25-20

ALG ANALYTICAL LABORATORY GROUP
Delivering more than just test results

ALG ORELAP ID #OR100012
361 West 5th Ave
Eugene, OR 97401
TEL: (541) 485-8404 FAX: (541) 484-5995
Website:

Jeanne Olson
J.H. Baxter & Co.
85 Baxter Street
Eugene, OR 97402
TEL: (541) 689-3801
FAX:

RE: Groundwater Wells Order No.: 2009C10

Dear Jeanne Olson:

Analytical Laboratory Group received 5 sample(s) on 9/30/2020 for the analyses presented in the following report.

The analysis was performed according to our laboratory's NELAP/TNI-approved quality assurance program. Any exceptions to this quality assurance program are noted on the case narrative.

Testing methods used are sufficiently sensitive enough to meet the requirements that support client/permittee NPDES permits that we have on file. The client is responsible for reviewing reports. The permittee is responsible for meeting permit limits.

Quality control data is within laboratory defined or method specified acceptance limits except if noted on the case narrative.

If you have any questions regarding these tests results, please feel free to call.

Kimberly Reever Morghan
Quality Manager
361 West 5th Ave
Eugene, OR 97401

ALG ANALYTICAL LABORATORY GROUP
Delivering more than just test results

ALG ORELAP ID #OR100012
361 West 5th Ave
Eugene, OR 97401
TEL: (541) 485-8404 FAX: (541) 484-5995
Website:

Case Narrative

WO#: **2009C10**
Date:

CLIENT: J.H. Baxter & Co.
Project: Groundwater Wells

This report presents the results of the analyses of the sample(s) received on the date above and assigned the listed Analytical Laboratory Group Analytical Report numbers. Test results relate only to the parameters tested and to the samples as received by the laboratory.

All analyses were performed according to the Analytical Laboratory Group, Inc. Quality Assurance Program. All QA/QC requirements were met except as noted below.

Analytical comments are noted with qualifiers (see "Qual" column) or data flags on the reports and/or below.

Pentachlorophenol and Phenol by EPA 625 were analyzed by Neilson Research Corporation, Medford OR; ORELAP ID# OR100016. No anomalies associated with the analysis of these sample(s) were reported except as noted in the NRC Case Narrative or qualified with data flags on the NRC report.

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

October 14, 2020

Katrina Garcia
Analytical Laboratory Group, Inc.
361 West Fifth Avenue
Eugene, OR 97401
TEL: (800) 262-5973
FAX: (541) 484-5995

RE: 2009C10 Order No.: 20100055

Dear Katrina Garcia:

Neilson Research Corporation received 5 sample(s) on 10/1/2020 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **20100055**
Date: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Project: 2009C10

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100055**
Date Reported: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100055-01
Client Sample ID 2009C10-001A
Project: 2009C10
Sample Location: W-18AI

Collection Date: 9/30/2020 9:16:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	4.45		1	0.571	1.00	µg/L		10/02/20 22:50	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 22:50	TJW
Surr: 4-Terphenyl-d14	E625		96.9		1		50 - 140	%Rec		10/02/20 22:50	TJW
Surr: 2,4,6-Tribromophenol	E625		34.7		1		20 - 140	%Rec		10/02/20 22:50	TJW
Surr: 2-Fluorobiphenyl	E625		74.8		1		40 - 140	%Rec		10/02/20 22:50	TJW
Surr: 2-Fluorophenol	E625		16.3		1		10 - 120	%Rec		10/02/20 22:50	TJW
Surr: Nitrobenzene-d5	E625		69.5		1		40 - 140	%Rec		10/02/20 22:50	TJW
Surr: Phenol-d6	E625		10.3		1	0	10 - 110	%Rec		10/02/20 22:50	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Original

NELAP NELAP A Accredited. ORELAP 100016, OR-028

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100055**
Date Reported: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100055-02
Client Sample ID 2009C10-002A
Project: 2009C10
Sample Location: W-23

Collection Date: 9/30/2020 9:53:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	12.4		1	0.571	1.00	µg/L		10/02/20 23:16	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 23:16	TJW
Surr: 4-Terphenyl-d14	E625		104		1		50 - 140	%Rec		10/02/20 23:16	TJW
Surr: 2,4,6-Tribromophenol	E625		37.9		1		20 - 140	%Rec		10/02/20 23:16	TJW
Surr: 2-Fluorobiphenyl	E625		77.7		1		40 - 140	%Rec		10/02/20 23:16	TJW
Surr: 2-Fluorophenol	E625		16.3		1		10 - 120	%Rec		10/02/20 23:16	TJW
Surr: Nitrobenzene-d5	E625		69.2		1		40 - 140	%Rec		10/02/20 23:16	TJW
Surr: Phenol-d6	E625		10.7		1	0	10 - 110	%Rec		10/02/20 23:16	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Original

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Website: www.nrclabs.com

Analytical Report

WO#: **20100055**
Date Reported: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100055-03
Client Sample ID 2009C10-003A
Project: 2009C10
Sample Location: W-11I

Collection Date: 9/30/2020 10:42:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/02/20 23:43	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/02/20 23:43	TJW
Surr: 4-Terphenyl-d14	E625		102		1		50 - 140	%Rec		10/02/20 23:43	TJW
Surr: 2,4,6-Tribromophenol	E625		37.0		1		20 - 140	%Rec		10/02/20 23:43	TJW
Surr: 2-Fluorobiphenyl	E625		82.0		1		40 - 140	%Rec		10/02/20 23:43	TJW
Surr: 2-Fluorophenol	E625		19.5		1		10 - 120	%Rec		10/02/20 23:43	TJW
Surr: Nitrobenzene-d5	E625		76.9		1		40 - 140	%Rec		10/02/20 23:43	TJW
Surr: Phenol-d6	E625		12.0		1	0	10 - 110	%Rec		10/02/20 23:43	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Original

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TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20100055**
Date Reported: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100055-04
Client Sample ID 2009C10-004A
Project: 2009C10
Sample Location: W-11S

Collection Date: 9/30/2020 11:14:00 AM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	ND		1	0.571	1.00	µg/L		10/03/20 0:10	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/03/20 0:10	TJW
Surr: 4-Terphenyl-d14	E625		108		1		50 - 140	%Rec		10/03/20 0:10	TJW
Surr: 2,4,6-Tribromophenol	E625		41.2		1		20 - 140	%Rec		10/03/20 0:10	TJW
Surr: 2-Fluorobiphenyl	E625		91.8		1		40 - 140	%Rec		10/03/20 0:10	TJW
Surr: 2-Fluorophenol	E625		19.0		1		10 - 120	%Rec		10/03/20 0:10	TJW
Surr: Nitrobenzene-d5	E625		85.2		1		40 - 140	%Rec		10/03/20 0:10	TJW
Surr: Phenol-d6	E625		11.5		1	0	10 - 110	%Rec		10/03/20 0:10	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Original

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Analytical Report

WO#: **20100055**
Date Reported: **10/14/2020**

CLIENT: Analytical Laboratory Group, Inc.
Lab ID: 20100055-05
Client Sample ID 2009C10-005A
Project: 2009C10
Sample Location: W-12I

Collection Date: 9/30/2020 12:13:00 PM
Received Date: 10/1/2020 12:20:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
SEMIVOLATILES ORGANICS EPA 625.1											
Pentachlorophenol	E625	A	74.4		5	2.85	5.00	µg/L		10/05/20 17:50	TJW
Phenol	E625	A	ND		1	0.211	1.00	µg/L		10/03/20 0:37	TJW
Surr: 4-Terphenyl-d14	E625		107		1		50 - 140	%Rec		10/03/20 0:37	TJW
Surr: 2,4,6-Tribromophenol	E625		40.0		1		20 - 140	%Rec		10/03/20 0:37	TJW
Surr: 2-Fluorobiphenyl	E625		84.6		1		40 - 140	%Rec		10/03/20 0:37	TJW
Surr: 2-Fluorophenol	E625		19.6		1		10 - 120	%Rec		10/03/20 0:37	TJW
Surr: Nitrobenzene-d5	E625		79.3		1		40 - 140	%Rec		10/03/20 0:37	TJW
Surr: Phenol-d6	E625		12.1		1	0	10 - 110	%Rec		10/03/20 0:37	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit

Original

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Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **20100055**

14-Oct-20

Client: Analytical Laboratory Group, Inc.
Project: 2009C10 **TestCode:** **EPA625.1**

Sample ID: **MB-6108**	SampType: **MBLK**	TestCode: **EPA625.1**	Units: **µg/L**	Prep Date: **10/2/2020**	RunNo: **15043**
Client ID: **PBW**	Batch ID: **6108**	TestNo: **E625**	**E3510C**	Analysis Date: **10/2/2020**	SeqNo: **226738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	1.00									
Phenol	ND	1.00									
Surr: 4-Terphenyl-d14	19.9		20.00		99.7	50	140				
Surr: 2,4,6-Tribromophenol	14.5		20.00		72.5	20	140				
Surr: 2-Fluorobiphenyl	17.2		20.00		86.1	40	140				
Surr: 2-Fluorophenol	9.29		20.00		46.5	10	120				
Surr: Nitrobenzene-d5	16.9		20.00		84.5	40	140				
Surr: Phenol-d6	5.83		20.00		29.2	10	110				

Sample ID: **LCS-6108**	SampType: **LCS**	TestCode: **EPA625.1**	Units: **µg/L**	Prep Date: **10/2/2020**	RunNo: **15043**
Client ID: **LCSW**	Batch ID: **6108**	TestNo: **E625**	**E3510C**	Analysis Date: **10/2/2020**	SeqNo: **226739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	7.42	1.00	10.00	0	74.2	38	151				
Phenol	2.88	1.00	10.00	0	28.8	17	110				
Surr: 4-Terphenyl-d14	20.5		20.00		102	50	140				
Surr: 2,4,6-Tribromophenol	15.9		20.00		79.4	20	140				
Surr: 2-Fluorobiphenyl	17.3		20.00		86.7	40	140				
Surr: 2-Fluorophenol	9.28		20.00		46.4	10	120				
Surr: Nitrobenzene-d5	16.9		20.00		84.7	40	140				
Surr: Phenol-d6	6.26		20.00		31.3	10	110				

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **20100055**

14-Oct-20

Client: Analytical Laboratory Group, Inc.
Project: 2009C10 **TestCode:** **EPA625.1**

Sample ID: **20100013-01AMS** SampType: **MS** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **BatchQC** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	8.24	1.00	10.00	0	82.4	20	120				
Phenol	2.45	1.00	10.00	0	24.5	10	120				
Surr: 4-Terphenyl-d14	22.0		20.00		110	50	140				
Surr: 2,4,6-Tribromophenol	16.6		20.00		82.8	20	140				
Surr: 2-Fluorobiphenyl	17.6		20.00		88.0	40	140				
Surr: 2-Fluorophenol	8.15		20.00		40.8	10	120				
Surr: Nitrobenzene-d5	17.1		20.00		85.3	40	140				
Surr: Phenol-d6	5.20		20.00		26.0	10	110				

Sample ID: **20100013-01AMSD** SampType: **MSD** TestCode: **EPA625.1** Units: **µg/L** Prep Date: **10/2/2020** RunNo: **15043**
Client ID: **BatchQC** Batch ID: **6108** TestNo: **E625** **E3510C** Analysis Date: **10/2/2020** SeqNo: **226742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	8.00	1.00	10.00	0	80.0	20	120	8.240	2.96	35	
Phenol	2.51	1.00	10.00	0	25.1	10	120	2.450	2.42	35	
Surr: 4-Terphenyl-d14	20.7		20.00		103	50	140		0		
Surr: 2,4,6-Tribromophenol	16.2		20.00		81.0	20	140		0		
Surr: 2-Fluorobiphenyl	17.8		20.00		89.0	40	140		0		
Surr: 2-Fluorophenol	8.93		20.00		44.6	10	120		0		
Surr: Nitrobenzene-d5	17.4		20.00		86.8	40	140		0		
Surr: Phenol-d6	5.45		20.00		27.3	10	110		0		

Qualifiers:

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Sample Log-In Check List

Client Name: **AnalyticalLab** Work Order Number: **20100055** RcptNo: **1**

Logged by:	**Naomi Orr**	**10/1/2020 12:20:00 PM**
Completed By:	**Tamra Schmedemann**	**10/14/2020 8:29:05 AM**
Reviewed By:	**Tamra Schmedemann**	**10/14/2020 8:29:08 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☐ NA ☑
    NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good				DLN

Lab Order Number 20100055

Analytical Laboratory Group, Inc.

361 WEST FIFTH AVENUE
EUGENE, OREGON 97401
800-262-5973/541-485-8404 Fax 541-484-5995
Email: alglabs@alglabsinc.com

ALG ANALYTICAL LABORATORY GROUP

Delivering more than just test results

CHAIN OF CUSTODY

Attention:	Cynthia O'Kelley	**Client:**	Analytical Laboratory Group, Inc
Phone:	541-485-8404	**Address:**	361 West 5th Avenue
Fax:	541-484-5995		Eugene, OR 97401
Client Project:	Neilson Research	**Source:**	Environmental — **ALG PO#** 201001-04

Lab ID	ALG Sample ID	ALG Sample Point	Sample Matrix & Description Grab/Comp	Collection Date	Collection Time	Bottles	Analysis Requested
	2009C10-001A	W-18AI	EW/Grab	9/30/20	0916	(3) 625	Pentachlorophenol and Phenol by EPA 625
	2009C10-002A	W-23	EW/Grab	9/30/20	0953	(3) 625	Pentachlorophenol and Phenol by EPA 625
	2009C10-003A	W-11I	EW/Grab	9/30/20	1042	(3) 625	Pentachlorophenol and Phenol by EPA 625
	2009C10-004A	W-11S	EW/Grab	9/30/20	1114	(3) 625	Pentachlorophenol and Phenol by EPA 625
	2009C10-005A	W-12I	EW/Grab	9/30/20	1213	(3) 625	Pentachlorophenol and Phenol by EPA 625

Notes:
Please Return Shipper
Include: MDL

Turn Around Time Requested: Normal	**Shipped Via:** Client	**Refrigerated** YES 3.1°C

	Date	Time		Date	Time
COC and PO made by: Cynthia O'Kelley	10/2/20	11:04	**Received by:**		
Relinquished by:			**Received by:**		
Relinquished by:			**Received by Laboratory:**	10-1-20	12:20

Note: Standard Terms and Conditions on Reverse

Work Order # 2009C14

LIMS: TW
Checked: KJ

ALG ANALYTICAL LABORATORY GROUP
Delivering more than just lab results
361 WEST FIFTH AVENUE
EUGENE, OREGON 97401
Phone: 541-485-8404 Fax: 541-484-5995
Email: alglabs@alglabsinc.com

EW GENERAL CHAIN OF CUSTODY

Report to:	Jeanne Olson, Josh Bale	Company:	J.H. Baxter & Co.
Phone:	541-689-3801	Address:	85 Baxter Street
Email:	jolson@jhbaxter.com, Jbale@gsinw.com	City, State, Zip:	Eugene, OR 97402
Client Project:	Groundwater wells	Sampler Name:	Joe Sherrod

Sample Point	Sample Matrix & Grab/Comp	Collection Date	Collection Time	Analysis Requested	Bottles -Lab Use Only Type	#	Pres	T °C	Lab ID
W-18AI	EW/Grab	9/30/20	0916	Phenols & Penta 625 8270C	625 8270C	3		9.1 8.5 11.4	001A
W-23	EW/Grab	9/30/20	0953	Phenols & Penta 625 8270C	625 8270C	3		11.3 10.9 7.6	002A
W-11I	EW/Grab	9/30/20	1042	Phenols & Penta 625 8270C	625 8270C	3		10.9 11.8 9.1	003A
W-11S	EW/Grab	9/30/20	1114	Phenols & Penta 625 8270C	625 8270C	3		10.6 10.3 10.1	004A
W-12I	EW/Grab	9/30/20	~~1215~~ 1213	Phenols & Penta 625 8270C	625 8270C	3		11.2 9.5 11.1	005A
	EW/Grab			Phenols & Penta 625 8270C	625 8270C	3			
	EW/Grab			Phenols & Penta 625 8270C	625 8270C	3			
	EW/Grab			Phenols & Penta 625 8270C	625 8270C	3			
	EW/Grab			Phenols & Penta 625 8270C	625 8270C	3			
	EW/Grab			Phenols & Penta 625 8270C	625 8270C	3			

Notes: corrected method/bottle 10/2/20 CR
MDL= 0.65 ug/L

Preservation Check

Lab ID	Date/Time	Pre-Preserved	pH	Tech

Turn Around Time Requested (Rush incurs a Surcharge): ☒ NORMAL ☐ RUSH

Shipped Via: ALG Courier

Refrigerated: (Ice) None

	Date	Time
Relinquished by:	9/30/20	1433
Received by:	9/30/20	1433
Relinquished by:		
Received by:		
Relinquished by:	9/30/20	1448
Received by Laboratory:	9/30/20	1448

J.H. Baxter 9-25-20

Page _____ of _____

Appendix B

Groundwater Sampling Field Log

Install dedicated pump

JH Baxter

Eugene, Oregon

Date: 9/28/20

2020

Well ID: W-17AI

Total Depth: (ft)	~~50~~	(-) DTW: (ft)	11.97	Time:	1420	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [x] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [x] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
14:35	Pump On, Water Reaches the Purge Bucket							Initial	clear, 68
14:38	.6	16.2	283.2	4.69	6.78	-8.6	600	12.1	11, 52
14:41	1.2	16.2	306.2	4.08	6.81	-17.2	600	11	11, 16
14:44	1.8	15.7	401.4	1.91	6.97	-46.2	600	11	11, 9
14:47	2.4	15.6	417.6	1.15	7.05	-65.7	600	11	11, 7
14:50	3.0	15.6	426.0	0.85	7.09	-76.5	600	11	11, 7
14:53	3.6	15.8	435.6	0.52	7.13	-91.1	600	11	11, 7
14:56	4.2	15.6	438.3	0.45	7.14	-96.8	600	11	11, 2
14:59	5.0	15.6	441.2	0.37	7.15	-102.8	600	11	11, 3
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

Eugene, Oregon

JH Baxter - ~~Arlington, Washington~~

Date: 09/28/2020	**Time:** 15:00	

Sampling Method (circle one):

(A) dedicated purge tube disconnected from flow through cell

B dedicated sampling port

C other:

Sample I.D.:	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-17AI	3	1L	amber	N/A	Phenols + Penta ~~8270D SIM - PCP~~ 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter -

Eugene, Oregon

Date: 4/28/20

W-17As

2020

Well ID:

Total Depth: (ft)	50	(-) DTW: (ft)	8.95	Time:	1510	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [x] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [x] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
15:15	Pump On, Water Reaches the Purge Bucket							Initial	
15:21	2.0	17.8	228.0	4.69	-1.8	-11.0	900	9.32	clearing, 207
15:24	2.8	17.7	229.2	4.58	6.86	-11.4	600	9.54	clearing, 24
15:27	3.5	18.0	232.1	4.43	6.85	-9.6	600	11	clear, 6
15:30	4.0	17.9	233.7	4.46	6.83	-6.8	600	11	clear, 4
15:33	4.5	17.9	233.9	4.48	6.83	-6.7	600	11	clear, 4
:									
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - ~~Arlington, Washington~~

Date: 9 / 28 / 20	**Time**: 15 : 34	
Sampling Method (circle one):	A dedicated purge tube disconnected from flow through cell B dedicated sampling port C other:	

Sample I.D.:	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-17 AS	3	1L	amber	NA	Phenols + Penta ~~8270D SIM PCP~~ 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated Pump installed

Date: 9/29/20

2H 2020

Well ID: W-32

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	
09:38	1.0	15.1	110.6	6.72	7.29	69.9			clear, 4
09:41	2.0	14.8	116.1	8.10	6.91	63.0			clear, 3
09:44	3.0	14.7	164.0	6.40	6.89	41.2			clear, 3
09:47	4.0	14.6	230.6	4.15	6.93	29.7			clear, 3
09:50	5.0	14.5	254.5	1.64	6.96	18.3			clear, 4
09:53	6.0	14.4	259.7	1.51	7.01	8.8			clear, 3
09:56	7.0	14.4	261.7	1.47	7.09	-2.9			clear, 3
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 29 / 2020	**Time:** 09 : 57	
Sampling Method (circle one):	(A)	dedicated purge tube disconnected from flow through cell
	B	dedicated sampling port
	C	other:

Sample I.D. W-32 GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-32	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/29/2020

2H 2020

Well ID: W-25

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume
	10.13			(x) 0.65 - 4"	

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	muddy
10:37	.4	15.2	646	3.55	7.18	29.4	600	9.69	muddy/clearing, 97
10:40	.8	15.3	650	2.04	7.08	9.7	"	"	clearing, 95
10:43	1.2	15.1	652	1.45	7.08	-2.5	"	"	clearing, 43
10:46	1.6	15.0	654	0.94	7.09	-14.0	"	"	clearing, 26
10:49	2.0	15.4	658	0.75	7.10	-18.2	"	"	clear, 40
10:52	2.4	15.1	660	0.58	7.10	-21.8	"	"	clear, 20
10:55	2.8	15.0	660	0.41	7.09	-27.7	"	"	clear, 12
10:58	3.2	15.2	662	0.20	7.09	-36.2	"	"	clear, 7
11:01	3.6	15.1	662	0.25	7.09	-40.5	"	"	clear, 6
11:04	4.0	15.1	662	0.26	7.09	-43.6	"	"	clear, 4
:	Start Sampling								
:	End Sampling								

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JH Baxter - Eugene, Oregon

Date: 9 / 29 / 20	**Time:** 11 : 05	
Sampling Method (circle one):	(A)	dedicated purge tube disconnected from flow through cell
	B	dedicated sampling port
	C	other:

Sample I.D. W-25 GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-25	3	1 L	amber	N/A	Phenols + PCP 8270 CC
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:
Turbidity slightly above stable

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/2 9/20

2H 2020

Well ID: W-29

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
11:43	Pump On, Water Reaches the Purge Bucket							Initial	Clearing
11:47	.6	16.6	414.5	2.93	7.32	53.9	600	8.87	clearing, 98
11:50	1.2	16.7	460.8	1.90	7.29	43.3	"	"	clearing, 43
11:53	1.8	16.5	491.1	1.35	7.26	31.0	"	"	clear, 33
11:56	2.4	16.4	506.3	0.84	7.24	19.2	"	"	clear, 23
11:59	3.0	16.4	510.4	0.72	7.24	14.3	"	"	clear, 17
12:02	3.6	16.2	512.4	0.57	7.24	4.9	"	"	clear, 14
12:05	4.2	16.2	514.9	0.24	7.23	-1.7	"	"	clear, 13
12:08	4.8	16.1	515.9	0.17	7.23	-5.9	"	"	clear, 7
12:11	5.4	16.0	516.3	0.14	7.23	-12.9	"	"	clear, 5
:									
:	Start Sampling								
:	End Sampling								

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JH Baxter - Eugene, Oregon

Date: 9 / 29 / 20	**Time:** 12 : 12	
Sampling Method (circle one):	(A) dedicated purge tube disconnected from flow through cell	
	B dedicated sampling port	
	C other:	

Sample I.D. W-29 GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-29	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/29/2020

2H 2020

Well ID: W-26

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
13:00	Pump On, Water Reaches the Purge Bucket							Initial	
13:03	.1	16.2	53.9	3.71	7.47	67.6	400	9.88	Clearing, 25
13:06	.5	16.3	52.3	2.56	6.99	53.5	"	"	Clearing, 31
13:09	1.0	15.7	51.6	2.18	6.69	56.9	"	"	clear, 32
13:12	1.5	15.4	51.3	2.15	6.62	53.9	"	"	clear, 29
13:15	2.0	15.3	50.9	2.17	6.51	51.2	"	"	clear, 29
13:18	2.5	16.3	50.9	2.21	5.55	48.1	"	"	clear,
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 29 / 2020	**Time:** 13 : 19	

Sampling Method (circle one):

(A) dedicated purge tube disconnected from flow through cell
B dedicated sampling port
C other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-26	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Date: 9/29/20

2H 2020 **Well ID:** W-75

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

✓	Purge Method: Submersible Pump
	Purge Method:
	Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	
13:44	.8	16.2	418.3	2.65	5.76	104.3	500	14.78	brown/clearing, 213
13:47	1.4	15.9	431.9	1.61	5.79	97.3	"	"	" , 248
13:50	2.0	16.6	455.2	0.68	6.89	77.1	"	"	" , 613
13:53	2.6	18.4	470.2	0.39	6.31	59.6	"	"	brown, 390
13:56	3.1	20.8	487.9	0.26	6.42	49.5	"	"	clearing, 104
13:59	3.6	22.0	512.1	0.24	6.53	38.5	"	"	" , 50
14:02	4.2	22.4	542	0.20	6.61	22.4	"	"	" , 31
14:05	4.8	22.4	557	0.18	6.66	16.3	"	"	" , 28
14:08	5.4	22.4	558	0.15	6.66	11.9	"	"	" , 26
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 29 / 20	**Time:** 14 : 09	
Sampling Method (circle one):	(A)	dedicated purge tube disconnected from flow through cell
	B	dedicated sampling port
	C	other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-7S	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/29/20

2H 2020

Well ID: W-6I

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) ~~0.65 - 4"~~ (x) ~~1.47 - 6"~~ gal/feet	= Well Casing Volume
	15.82				

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

✓	Purge Method: Submersible Pump
	Purge Method:
	Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
14:25	Pump On, Water Reaches the Purge Bucket							Initial	clear, 13
14:32	.8	15.2	317.0	1.24	7.16	29.9	≈600	15.79	clear, 13
14:35	1.5	15.2	317.0	0.35	7.11	10.8	"	"	clear, 11
14:38	2.2	15.4	316.7	0.19	7.10	1.0	"	"	clear, 9
14:41	2.9	15.3	316.7	0.14	7.10	-6.7	"	"	clear, 8
14:44	3.7	15.4	316.9	0.12	7.09	-10.5	"	"	clear, 8
:									
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 29 / 20	**Time:** 14 : 45	
Sampling Method (circle one):	(A)	dedicated purge tube disconnected from flow through cell
	B	dedicated sampling port
	C	other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-6I	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/30/20

2H 2020

Well ID: W-18AI

Total Depth: (ft)	14.10 (-) DTW: (ft) Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	
08:48	.5	14.8	340.9	4.40	7.10	102.2	≈600	13.50	clear, 72
08:51	1.5	14.7	352.6	3.32	7.12	85.0	≈600	13.60	" , 57
8:54	1.9	14.9	351.7	3.01	7.14	66.1	≈500	13.48	" , 37
8:57	2.4	14.8	352.1	2.96	7.16	59.3	"	13.46	" , 35
9:00	2.8	14.8	351.6	2.63	7.17	46.0	"	"	" , 28
9:03	3.2	14.7	349.6	2.33	7.17	37.8	"	"	" , 19
9:06	4.0	14.7	348.2	2.23	7.17	31.7	"	"	" , 12
9:09	4.5	14.7	347.2	0.70	7.16	28.1	"	"	" , 8
9:12	5.0	14.7	345.9	0.41	7.17	24.7	"	"	" , 8
9:15	5.5	14.7	345.2	0.44	7.17	21.7	"	"	" , 5
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 30 / 2020 **Time:** 09 : 16

Sampling Method (circle one):

(A) dedicated purge tube disconnected from flow through cell
B dedicated sampling port
C other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-18AI	3	1L	amber	N/A	Phenols + PCP 8270 LL
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

(1) Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown
2 After 3 well casing volumes: stabile parameters but uncontrolled/falling water level
3 After 5 well casing volumes: unstabile parameters with or without drawdown control
4 Pump dry: return anytime if there is adequate volume for containers within 24 hours

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/30/20

2H 2020

Well ID: W-23

Total Depth: (ft)	15.28 (-) DTW: (ft) Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

✓	Purge Method: Submersible Pump
	Purge Method:
	Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	
9:40	.7	15.2	613.2	1.74	7.08	59.6	≈600	14.68	clear, 17
9:43	1.5	15.4	616	0.64	7.06	47.4	11	14.63	clear, 7
9:46	1.8	15.5	619	0.31	7.06	40.2	11	14.64	11, 5
9:49	2.3	15.6	621	0.25	7.06	34.5	11	11	11, 3
9:52	2.7	15.6	624	0.25	7.06	30.4	11	11	11, 4
:									
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 30 / 20	**Time:** 9 : 53	

Sampling Method (circle one):

A dedicated purge tube disconnected from flow through cell
B dedicated sampling port
C other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-23	3	1L	Amber	N/A	Phenols + PCP 8270 cc
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	1
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/30/20

2H 2020

Well ID: W-11I

Total Depth: (ft)	13.42 (-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
10:25	Pump On, Water Reaches the Purge Bucket							Initial	clearing
10:32	3.25	15.3	188.9	0.16	7.40	-38.0	600	13.93	clear, C
10:35	4.00	15.3	182.3	0.12	7.40	-41.0	11	13.96	clear, 3
10:38	5.00	15.2	179.8	0.15	7.38	-41.5	11	11	clear, 2
10:41	6.00	15.3	178.5	0.13	7.37	-42.4	11	11	clear, 2
:									
:									
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 30 / 20	**Time:** 10 : 42	
Sampling Method (circle one):	(A)	dedicated purge tube disconnected from flow through cell
	B	dedicated sampling port
	C	other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-11I	3	1L	amber	N/A	Phenols & PCP 8270 LC
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/30/20

2H 2020

Well ID: W-11S

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume
	11.37			(x) 0.65 - 4"	

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [✓] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC): Purge water disposal: Extraction System

Type of Measurement Method: [ ] 10 oz cup [✓] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
10:50	Pump On, Water Reaches the Purge Bucket							Initial	dark, cloudy
10:58	2.5	16.2	695.1	8.08	7.08	10.9	≈600	11.38	clear, 23
11:01	3.4	16.2	695.2	7.86	7.08	7.1	11	11	11, 18
11:04	4.3	16.3	607	7.50	7.08	3.6	11	11	11, 14
11:07	5.2	16.3	614	7.30	7.08	1.8	11	11	11, 10
11:10	6.1	16.3	619	7.07	7.08	-.03	11	11	11, 10
11:13	7.0	16.3	626	6.90	7.08	-2.4	11	11	11, 8
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 30 / 20	**Time:** 11 : 14	
Sampling Method (circle one):	(A) dedicated purge tube disconnected from flow through cell	
	B dedicated sampling port	
	C other:	

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-11s	3	1L	amber	N/A	Phenols, PCP & 270' CC
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

Comments:

Groundwater Sampling Field Log

JH Baxter - Eugene, Oregon

Dedicated pump

Date: 9/30/20

2H 2020

Well ID: W-12I

Total Depth: (ft)	(-) DTW: (ft)	Time	=	(x) 0.16 - 2" (x) 0.65 - 4" (x) 1.47 - 6" gal/feet	= Well Casing Volume
	16.66			(x) 0.65 - 4"	

Field Conditions:

Decontamination: Alconox + tap wash; Tap rinse; DI rinse

PURGE INFORMATION

- [x] Purge Method: Submersible Pump
- [ ] Purge Method:
- [ ] Refer to calibration log this date, YSI # 3

Pump Suction Depth (ft BTOC):

Purge water disposal: [x] Extraction System

Type of Measurement Method: [ ] 10 oz cup [x] YSI 556 Flow Through Cell

Comments/Exceptions to SAP:

Time	Purge Volume (gallons)	Temp. (°C)	SC (uS/cm)	DO (mg/L)	pH	ORP (mV)	Purge Rate (mL/min)	DTW (ft BTOC)	Pump Speed/*Clarity/ Color/Remarks (NTU)
Stabilization Criteria		± 0.2	±3% (SC>100) ±5% (SC≤100)	± 0.3	± 0.1	± 10	--	--	± 10% (NTU>5) 3 readings < 5 (NTU<5)
:	Pump On, Water Reaches the Purge Bucket							Initial	
12:00	3.00	15.0	393.0	0.63	7.05	45.3	600	16.47	clear, I
12:03	4.00	15.0	391.7	0.31	7.05	35.2	"	"	clear, I
12:06	5.00	15.0	393.4	0.13	7.06	23.4	"	"	" , O
12:09	6.00	15.0	391.6	0.10	7.05	17.5	"	"	" , O
12:12	7.00	15.0	391.6	0.08	7.05	13.9	"	"	" , O
:									
:									
:									
:									
:									
:	Start Sampling								
:	End Sampling								

* **VC**=Very cloudy **Cl**=Cloudy **SC**=Slightly Cloudy **VSC**=Very Slightly Cloudy **AC**=Almost Clear **C**=Clear **CC**=Crystal Clear

JH Baxter - Eugene, Oregon

Date: 9 / 30 / 20	**Time:** 12 : 13	

Sampling Method (circle one):

(A) dedicated purge tube disconnected from flow through cell
B dedicated sampling port
C other:

Sample I.D. _____ GW-Well ID-MMYY	Number of sample containers (circle)	Volume of each container	Container Type	Pres.	Analytical Method
Site Wide					
W-12I	3	1L	Amber	N/A	Phenols Prep 8270
QAQC: **Sample ID & Time**---> Dups = GW-Dup-X-MMYY MS/MSD = same sample ID					

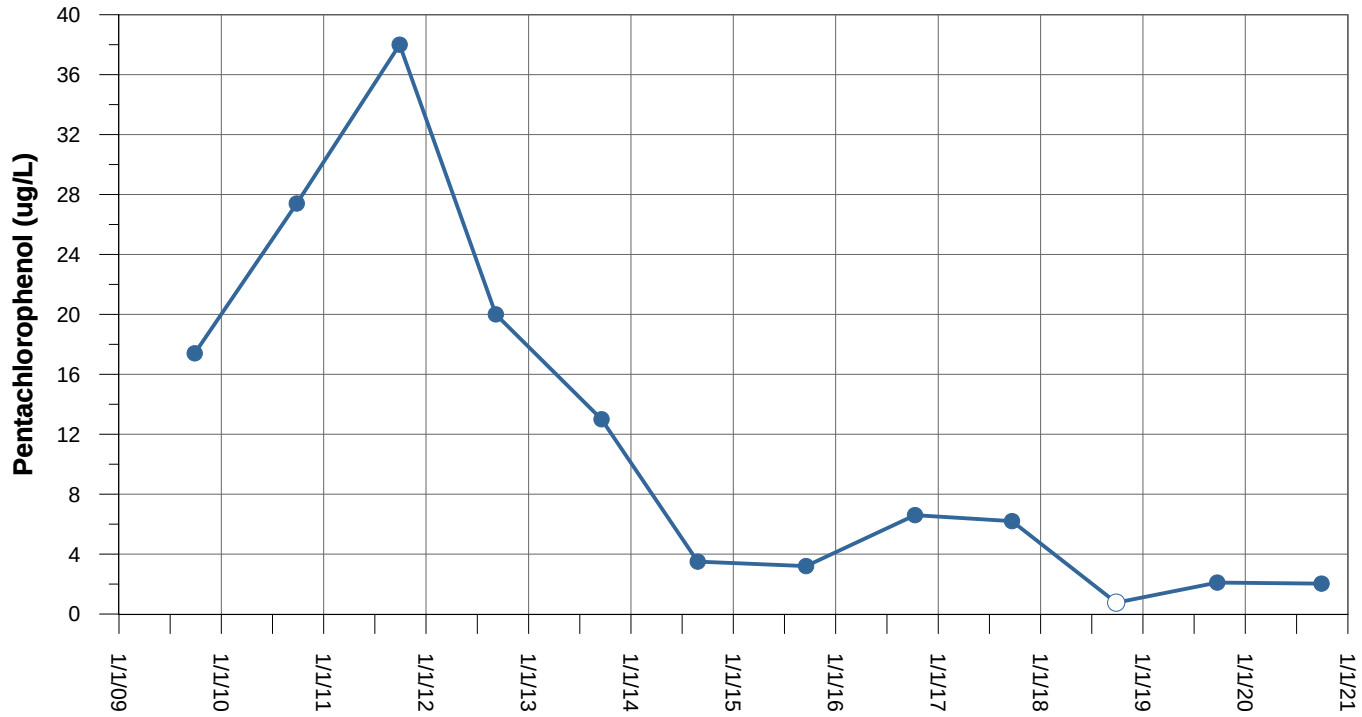
Sampling Criteria (circle one):

Collect anytime: stabile parameters over 15 minutes(4 readings) with controlled drawdown	(1)
After 3 well casing volumes: stabile parameters but uncontrolled/falling water level	2
After 5 well casing volumes: unstabile parameters with or without drawdown control	3
Pump dry: return anytime if there is adequate volume for containers within 24 hours	4

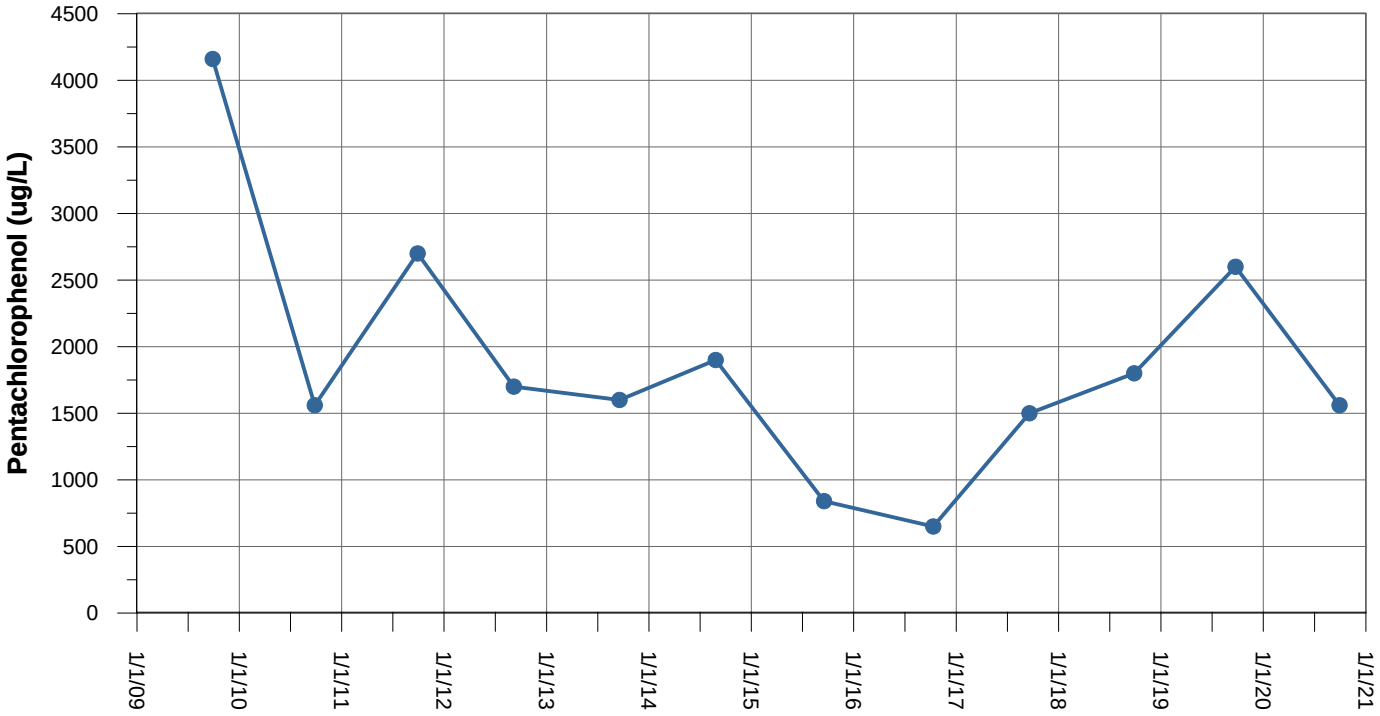
Comments:

Appendix C

W-6I



W-7S



Legend:

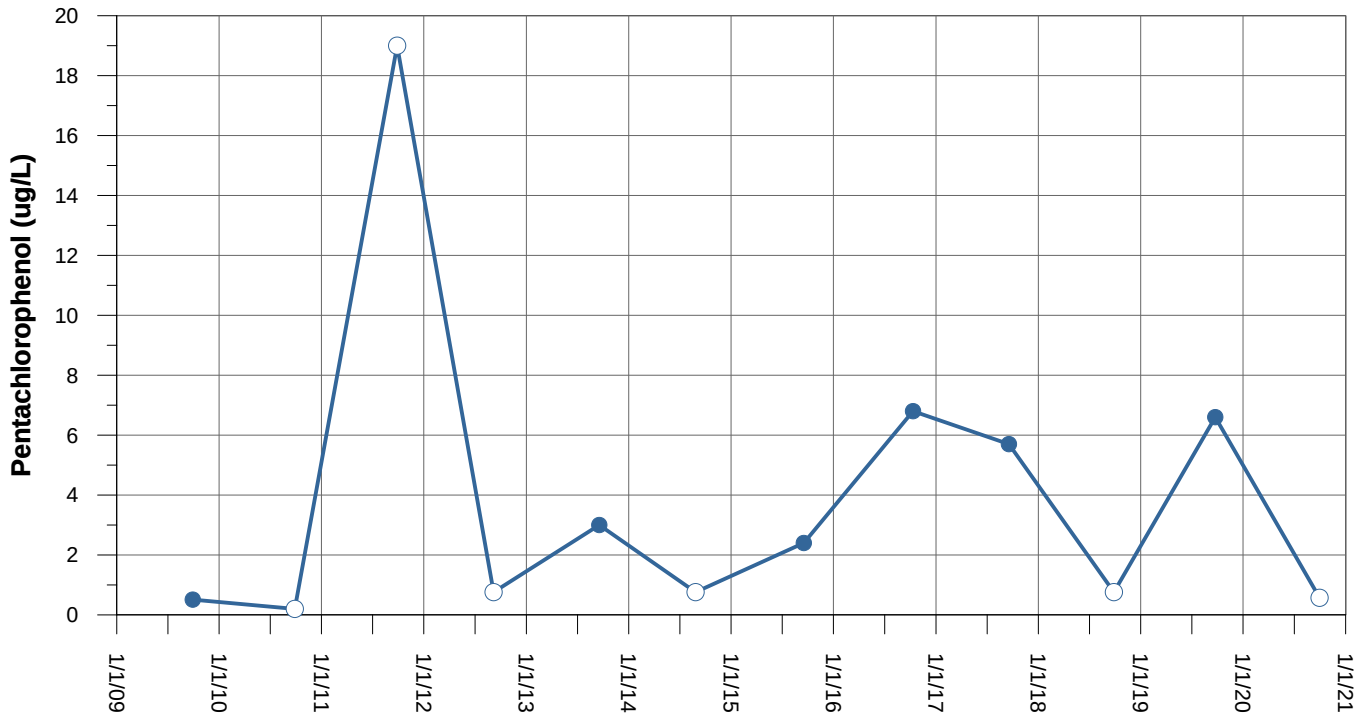
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-1
Pentachlorophenol Groundwater Concentrations in W-6I and W-7S
J.H. Baxter Wood Treating Facility
Eugene, Oregon

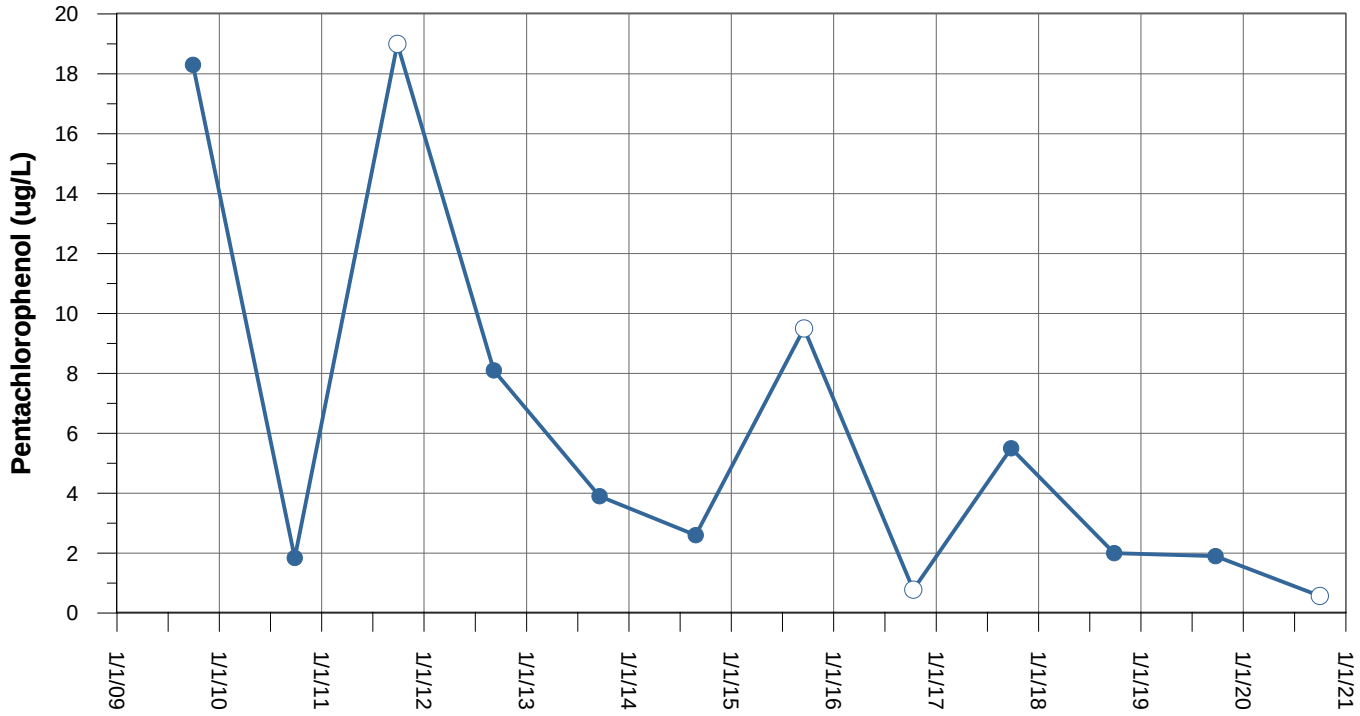
Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-11S



W-11I



Legend:

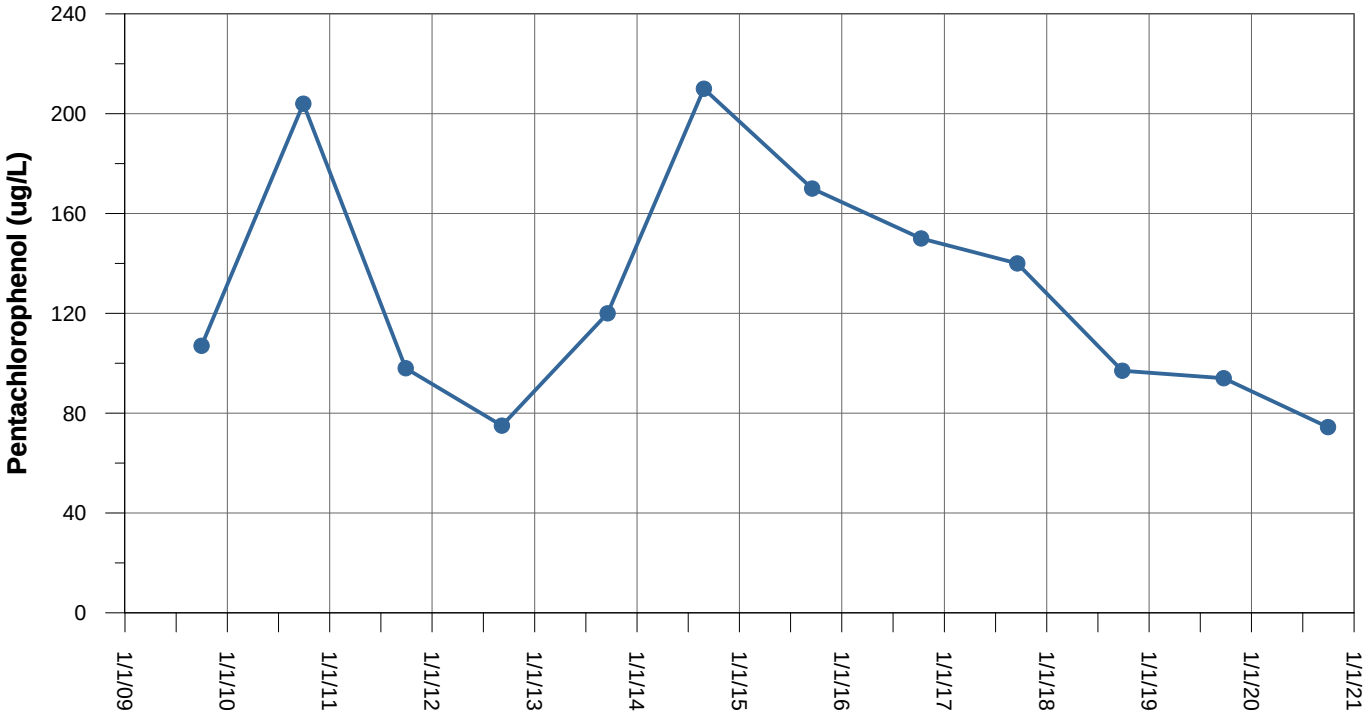
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-2
Pentachlorophenol Groundwater Concentrations in W-11S and W-11I
J.H. Baxter Wood Treating Facility
Eugene, Oregon

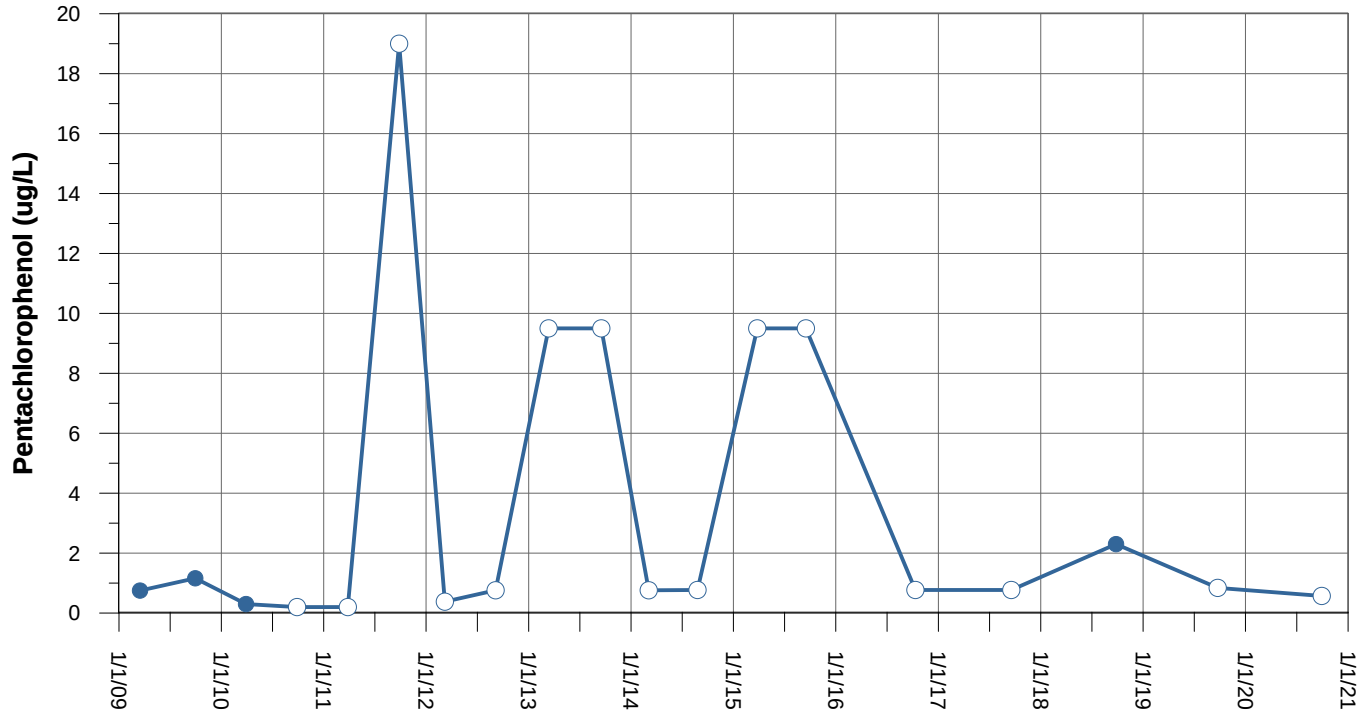
Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-12I



W-32



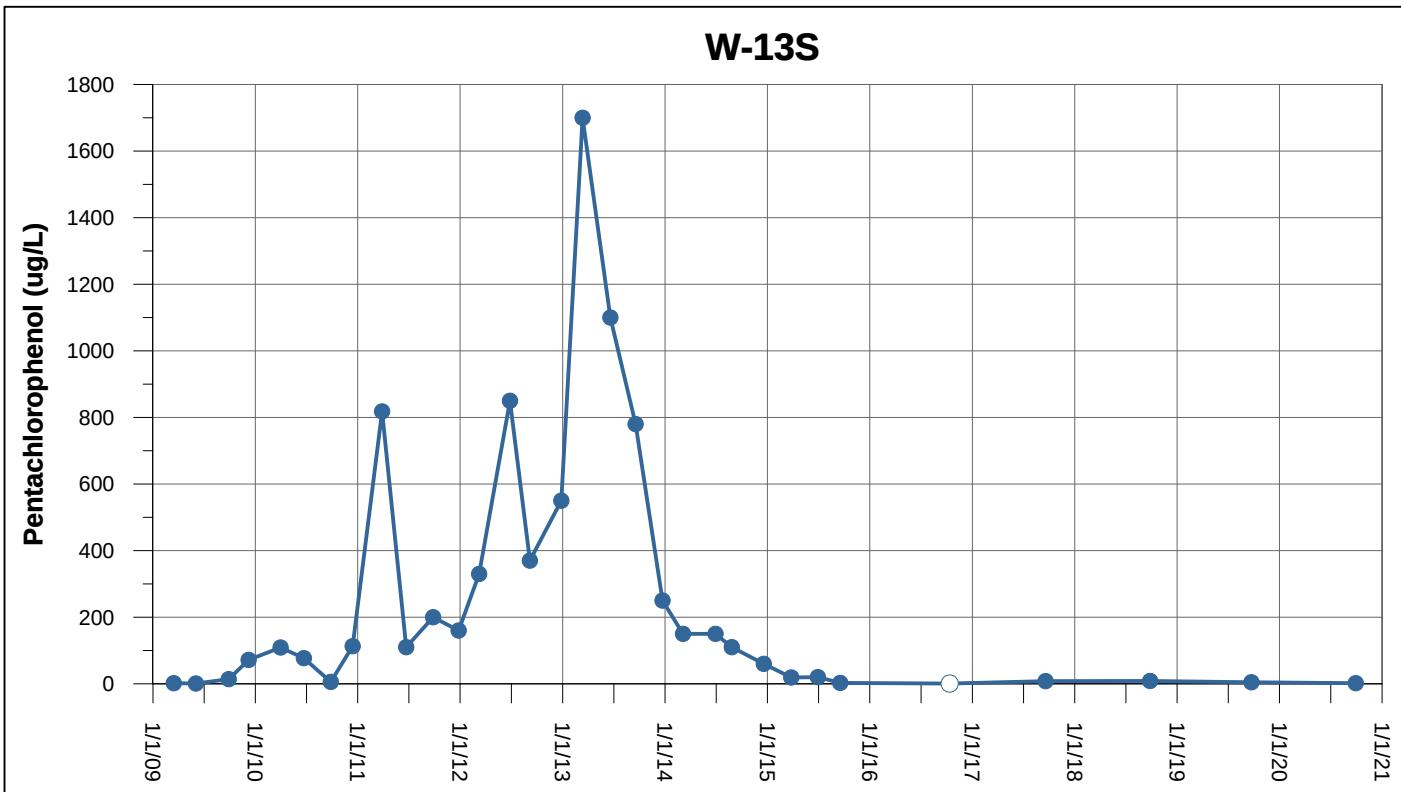
Legend:

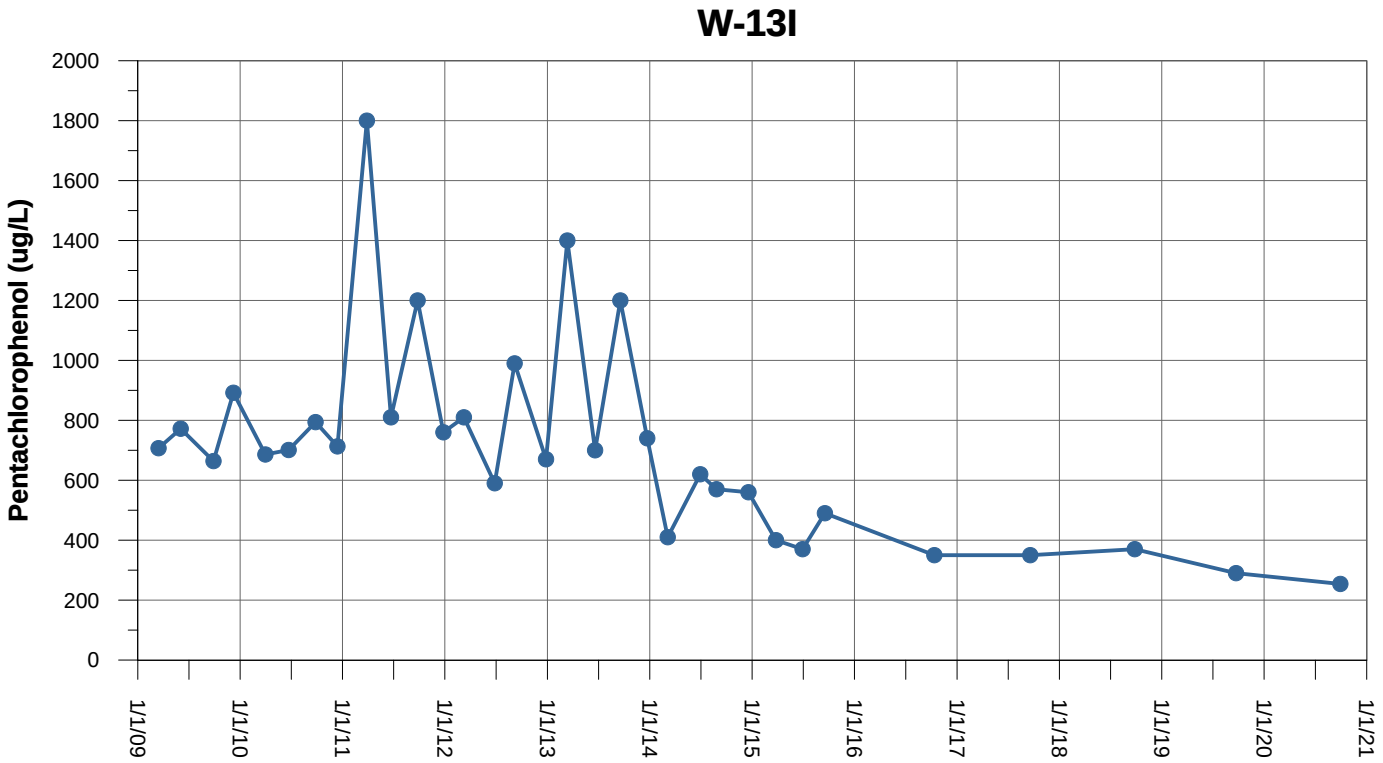
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-3
Pentachlorophenol Groundwater Concentrations in W-12I and W-32
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.





Legend:

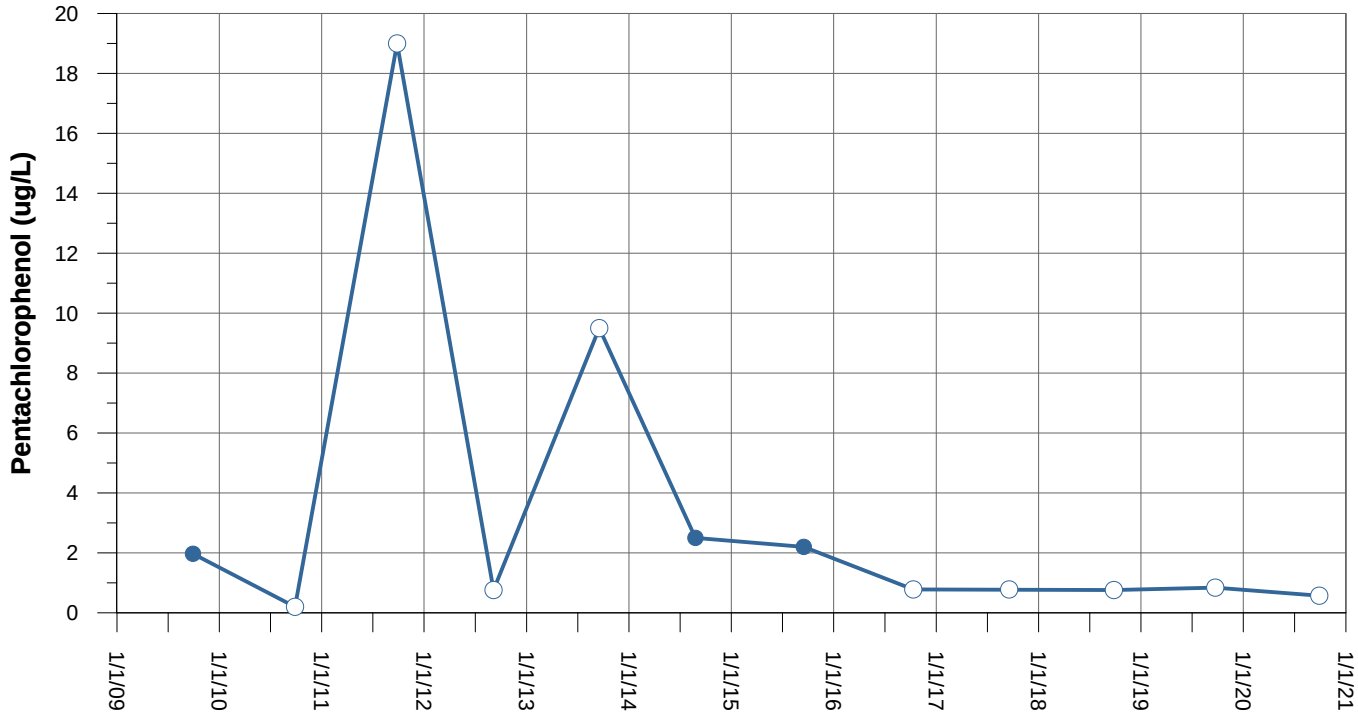
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-4
Pentachlorophenol Groundwater Concentrations in W-13S and W-13I
J.H. Baxter Wood Treating Facility
Eugene, Oregon

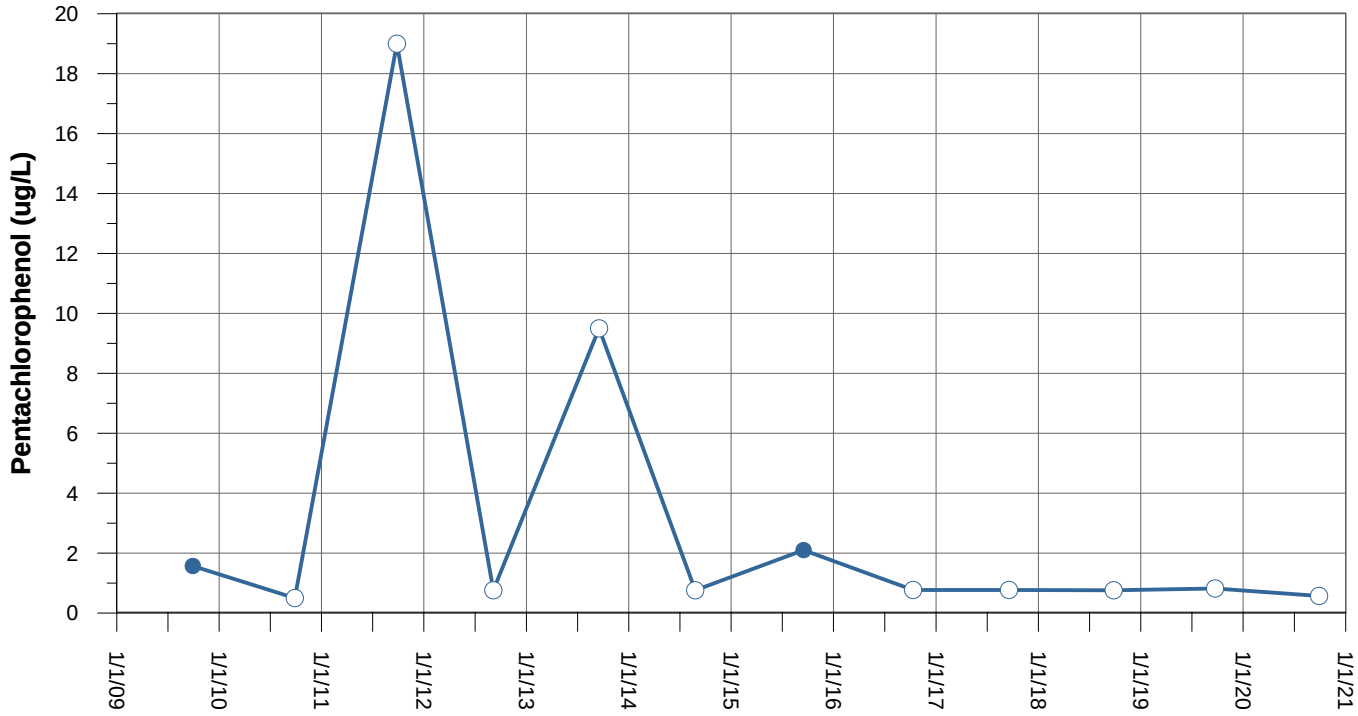
Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-17AS



W-17AI



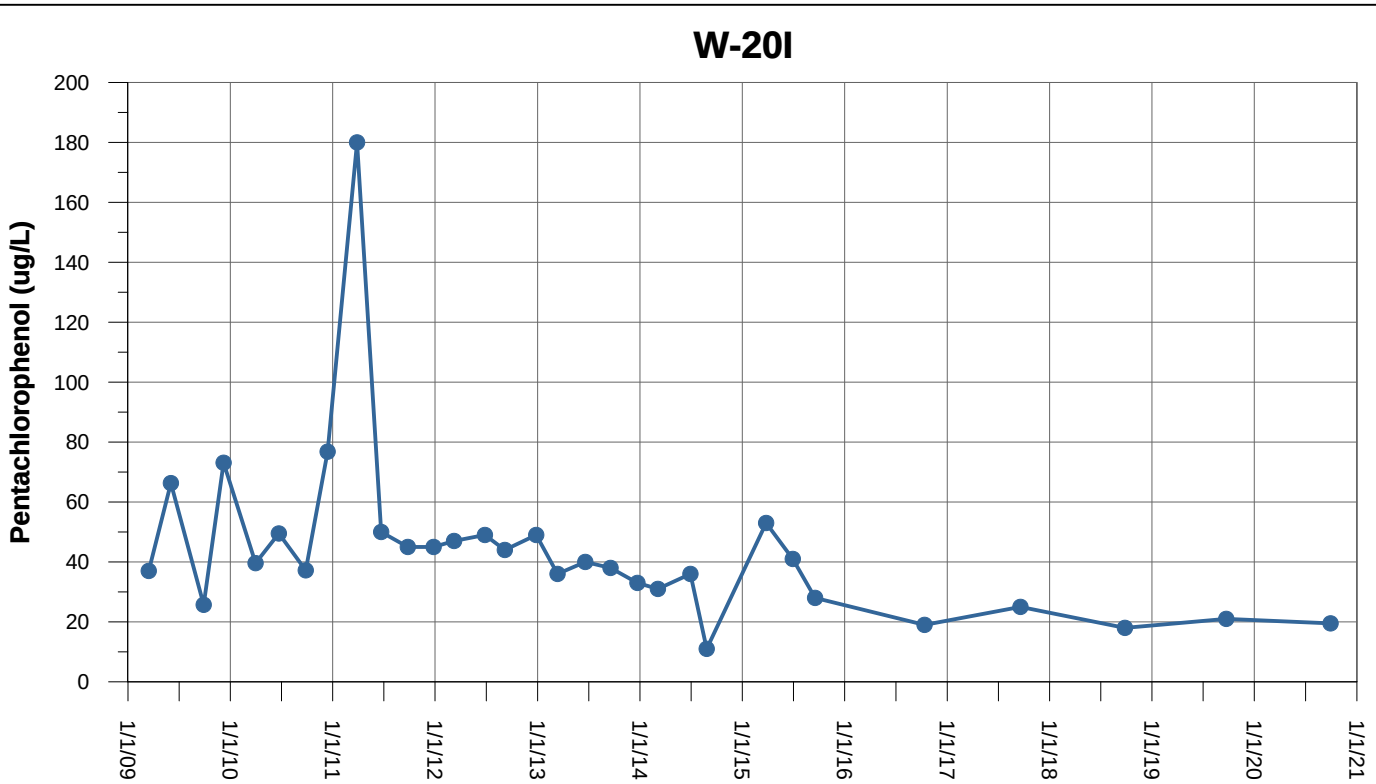
Legend:

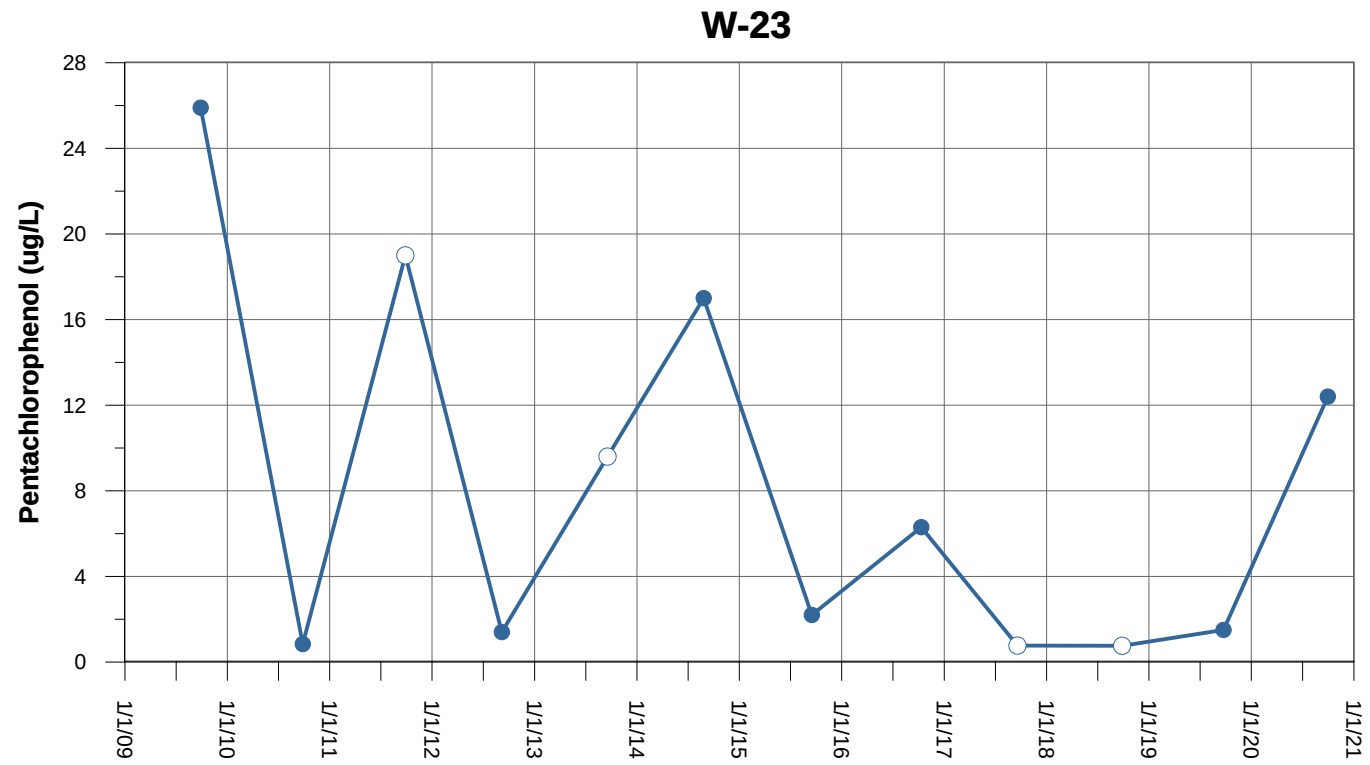
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-5
Pentachlorophenol Groundwater Concentrations in W-17AS and W-17AI
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.





Legend:

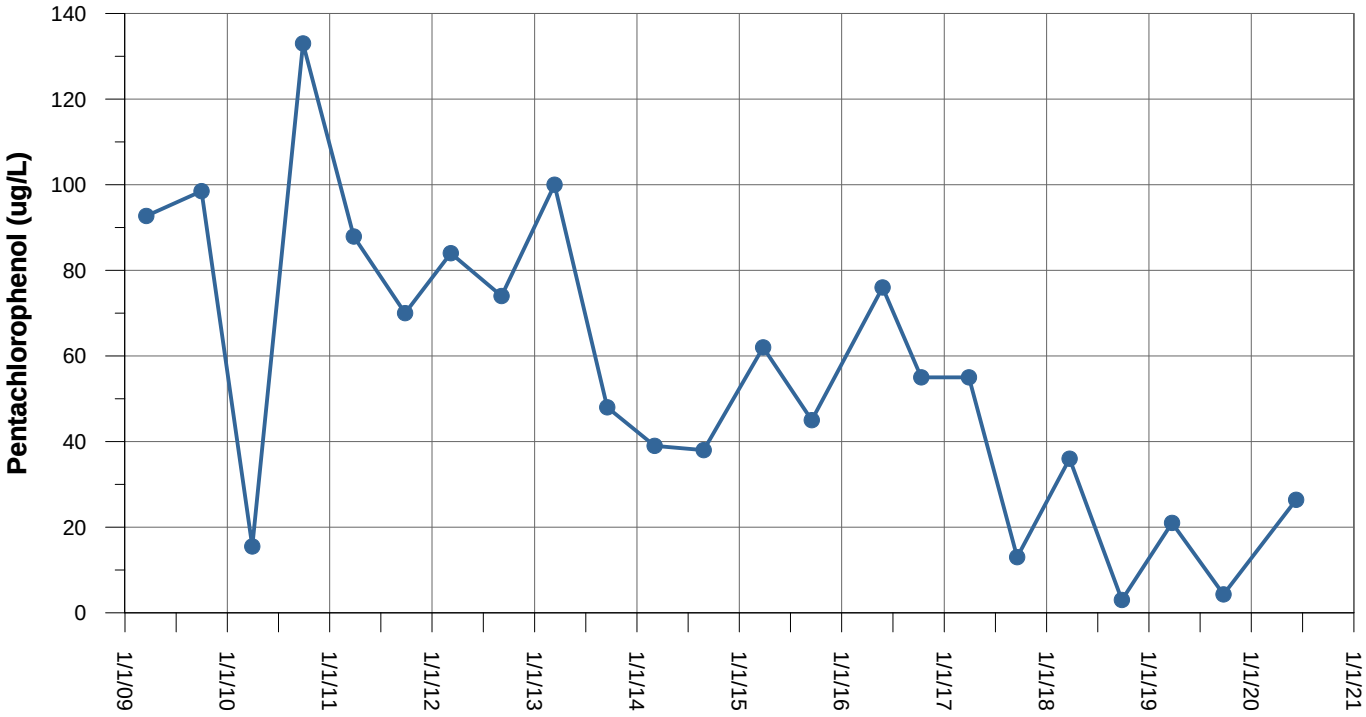
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-6
Pentachlorophenol Groundwater Concentrations in W-20I and W-23
J.H. Baxter Wood Treating Facility
Eugene, Oregon

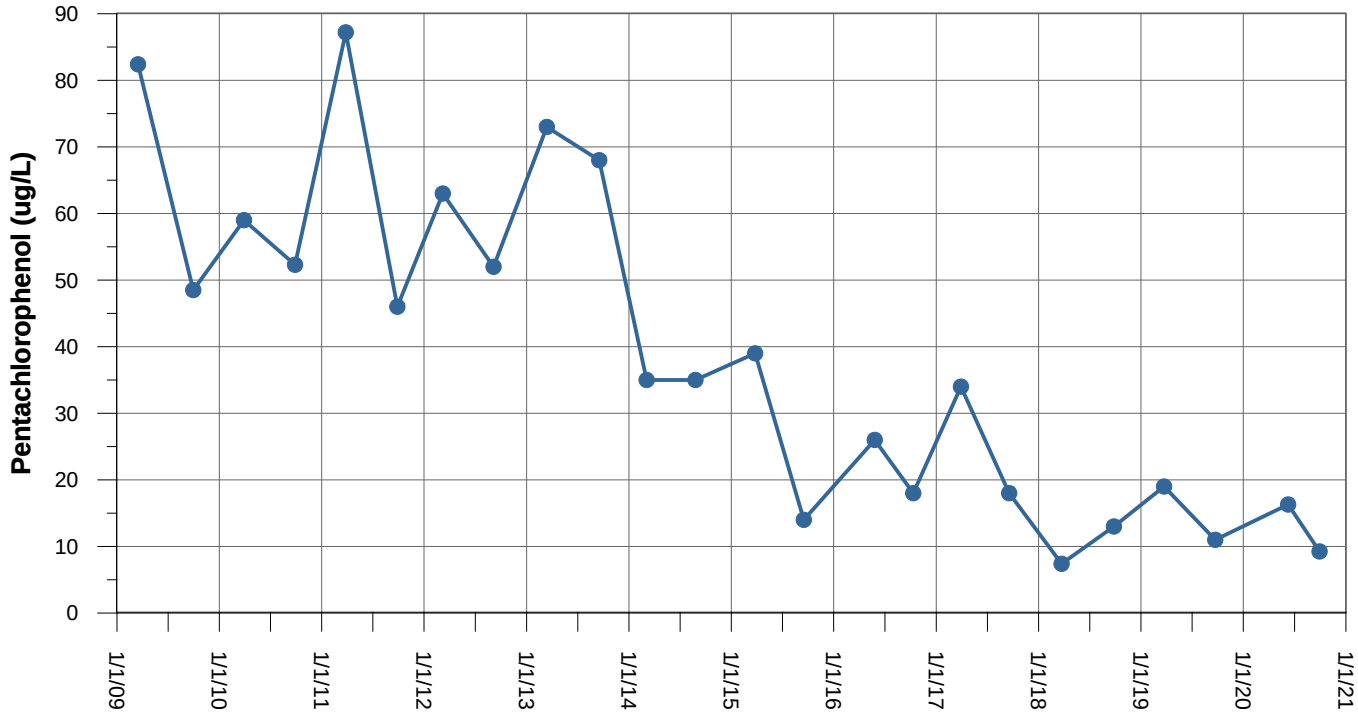
Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.

W-24



W-25



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-7

Pentachlorophenol Groundwater Concentrations in W-24 and W-25

J.H. Baxter Wood Treating Facility

Eugene, Oregon

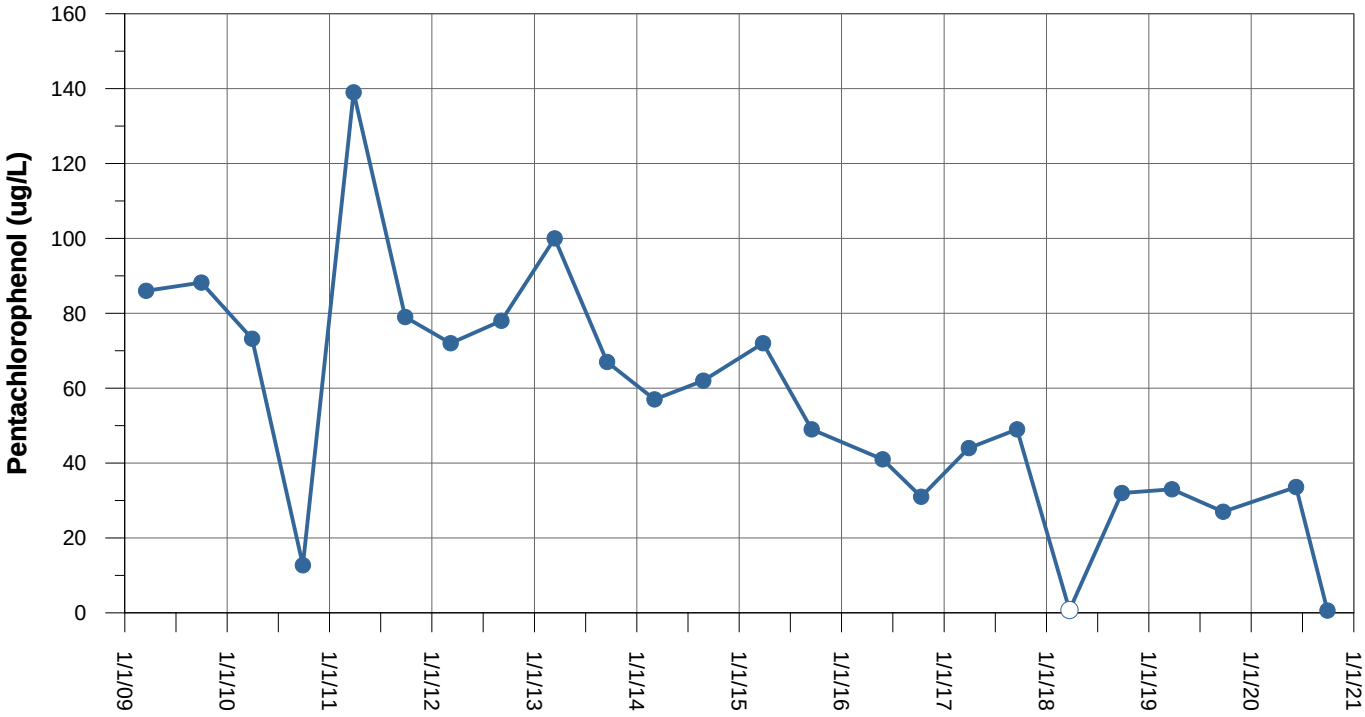
Notes:

ug/L = microgram per liter

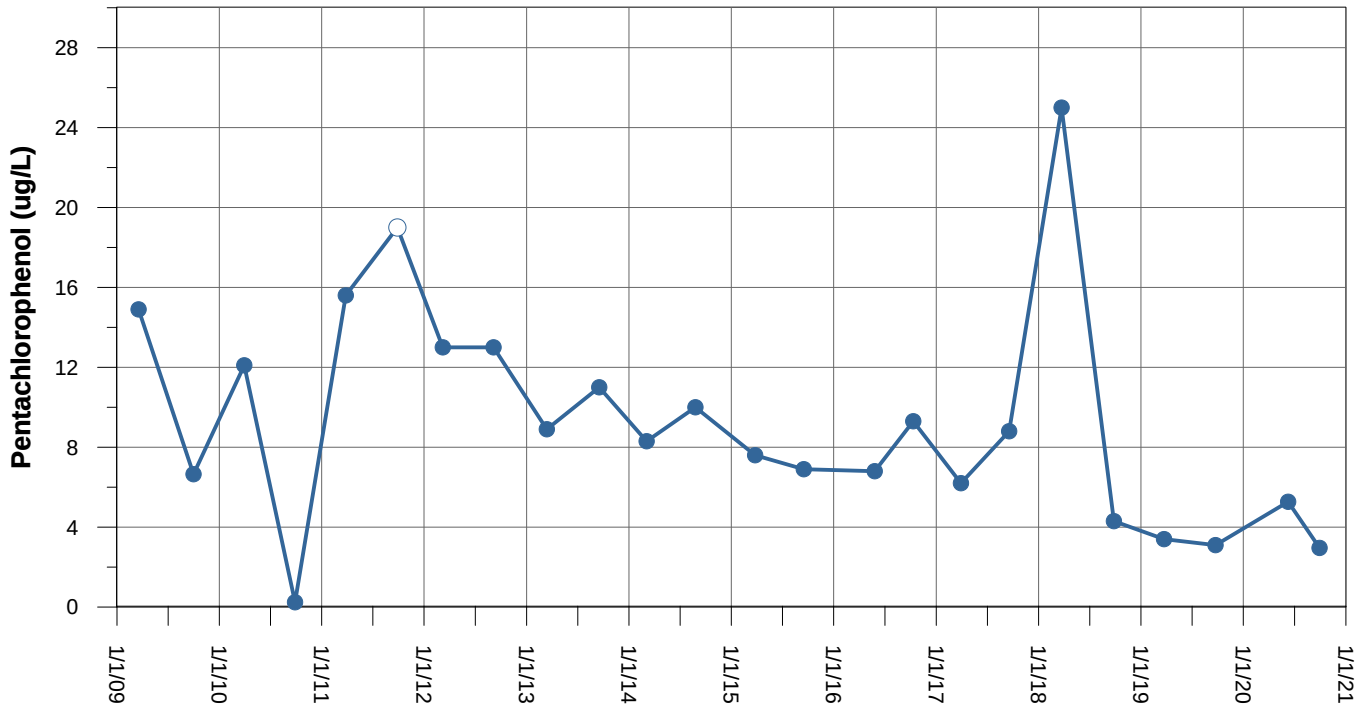
*W-24 was not sampled in September 2020

GSI Water Solutions, Inc.

W-26



W-29



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-8

Pentachlorophenol Groundwater Concentrations in W-26 and W-29

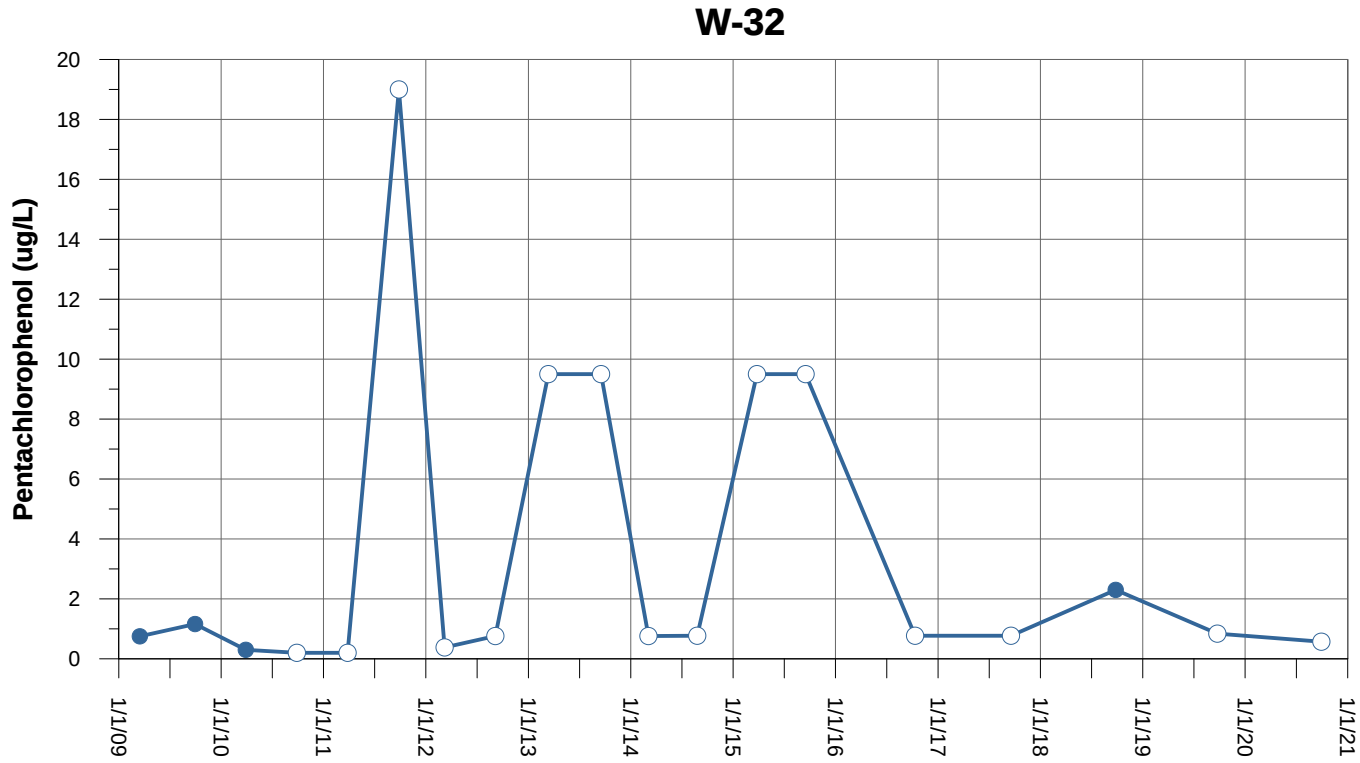
J.H. Baxter Wood Treating Facility

Eugene, Oregon

Notes:

ug/L = microgram per liter

GSI Water Solutions, Inc.



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

FIGURE C-9
Pentachlorophenol Groundwater Concentrations in W-32

J.H. Baxter Wood Treating Facility
Eugene, Oregon

GSI Water Solutions, Inc.