

Report

First Half 2018 Groundwater Monitoring Report



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

Prepared for
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1. Introduction

This report presents the results of groundwater monitoring activities conducted in the first half of 2018 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 40 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 25): 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-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 16): 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, 4 offsite wells including W-24, W-25, W-26 and W-29 were sampled in March 2018 for phenols 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 and 12 wells annually in September. Wells are sampled for phenols. This report summarizes the results of the March 2018 monitoring event and the groundwater extraction data through June 2018. The laboratory reports, field forms, and pentachlorophenol time-series plots from the March 2018 monitoring event are presented in Appendix A, Appendix B, and Appendix C, respectively.

2. Monitoring Activities

The groundwater monitoring event was conducted on March 23, 2018, and March 24, 2018. Field activities, including groundwater level measurements and groundwater sampling, were completed by Baxter personnel. Wells were sampled using low-flow methods as described in the *Revised Groundwater Monitoring Work Plan* (Baxter, 2003), with a portable submersible pump that was decontaminated between each well. 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 TestAmerica Laboratories, Inc. (TestAmerica), of Arvada, Colorado, for the following:

- Phenols by U.S. Environmental Protection Agency (EPA) Method 8270C Low Levels (LL)

Groundwater levels were measured at 40 wells and groundwater samples were collected from 4 wells. The laboratory report is presented in Appendix A and groundwater sampling forms are presented in Appendix B.

One field blind, or duplicate, was collected at well W-25 and one equipment blank was collected on March 24, 2018. The blind and equipment blank were analyzed for phenols.

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 depression around W-25 (Figure 3) is caused by the capture zone of the intermediate extraction well W-20I. The groundwater contour maps for both the shallow and intermediate zones show that the extraction system is achieving capture of the source area.

4. Analytical Results

Groundwater samples for the March 2018 monitoring event were analyzed for phenols. The laboratory results are provided in Table 2 and Appendix A. Pentachlorophenol (PCP) results are presented in Figure 5 and time series plots are presented in Appendix C. Note that the non-detect values on the time series plots are shown as hollow symbols so that when detection limits are elevated, it is not misinterpreted as representing the concentration in the well.

4.1 Onsite Monitoring Wells

Onsite monitoring wells were not sampled during the March 2018 monitoring event.

4.2 Onsite Extraction Wells

Onsite extraction wells were not sampled during the March 2018 monitoring event.

4.3 Offsite Monitoring Wells

PCP was detected in three of the four offsite monitoring wells sampled during the March 2018 monitoring event. The detected concentrations ranged from 7.4 (J-flag) to 36 micrograms per liter ($\mu\text{g/L}$). The highest offsite concentration of PCP was in well W-24, which is located northwest of the Site. No other phenols were detected. Figure C-9 in Appendix C shows that the PCP concentration in well W-24 increased in 2018 compared to the previous semi-annual monitoring event, but generally has declined since 2011. Offsite wells W-25 and W-26 have shown a general decline in PCP concentration since 2011 (Figures C-9 and C-10 in Appendix C). PCP concentrations in well W-29 have been stable or decreasing since 2011 but increased above the historical average during the March 2018 event (Figure C-10 in Appendix C). Results from the September 2018 sampling event will assist in determining if this an anomalous event.

4.4 Quality Assurance and Quality Control

Groundwater samples for the March 2018 monitoring event were analyzed by TestAmerica. 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. The results are considered usable with the appropriate flags.

Both sample coolers for the March 2018 monitoring event arrived at the laboratory in good condition, with no broken bottles, and below EPA's 6 degrees Celsius (°C) recommendation.

TestAmerica qualified analytes with a concentration detected above the method detection limit (MDL), but below the method reporting limit (MRL), with a J-flag. This qualification indicates an estimated concentration because the result is quantitatively uncertain.

An equipment rinsate blank was collected during the March 2018 monitoring event. The blank was analyzed for phenols. No analytes were detected above their respective detection limits in the rinsate blank. Following EPA guidelines for blank detections, no modifications were made to sample results.

One blind sample was collected during the March 2018 monitoring event from W-25. The blind sample was analyzed for phenols. The parent sample and blind results were found to be incomparable as there was no PCP detection in the blank but a J-flagged detection (less than the MRL) in the parent sample. As parent sample was already J-flagged as an estimated value (Table 2) no further qualifications to the results were made.

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 181 days, from January 1, 2018, through June 30, 2018. The estimated pumping rates and extracted constituent mass are presented in Table 3.

During the first half of 2018, 13.18 million gallons (MG) of groundwater were extracted and sent through the treatment system. An extracted contaminant mass for PCP was ~~Ygha UNX~~ on the basis of September 2017 analytical results for each extraction well (Table 3). In the first half of 2018, approximately 9.6 pounds of PCP were removed.

Since January 1994, approximately 593 MG of groundwater have been extracted and treated. Approximately 1,642 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 4.5 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. Second Half 2018 Activities

Semiannual and annual groundwater monitoring will be conducted for the second half of 2018 in accordance with the *Revised Monitoring Program May 2015* (Baxter, 2015), and will occur in September 2018.

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)
			3/23/2018	
W-1S	395.91	28.5	10.42	385.49
W-2S	393.16	27.6	--	--
W-2I	394.23	81.71	6.57	387.66
W-3S	395.01	33	--	--
W-4S	396.56	22.3	9.67	386.89
W-5I	396.71	75.5	11.29	385.42
W-6I	397.77	70	11.64	386.13
W-7S	397.66	20	11.09	386.57
W-8S	395.90	20.17	5.88	390.02
W-8I	393.66	82.33	6.98	386.68
W-9S	396.45	25	6.82	389.63
W-9I	396.19	67	6.40	389.79
W-11S	394.17	24.85	7.34	386.83
W-11I	394.17	83	9.06	385.11
W-12I	395.62	78.5	12.21	383.41
W-12D	395.54	133.75	11.96	383.58
W-13S	396.71	29.02	19.56	377.15
W-13I	396.15	71.46	42.33	353.82
W-13D	396.40	133.51	12.77	383.63
W-14I	395.60	77.5	9.12	386.48
W-15S	396.62	28	12.55	384.07
W-16AS	391.86	24.98	5.91	385.95
W-16AI	391.86	81.85	7.35	384.51
W-17AS	390.29	23.67	5.42	384.87
W-17AI	390.80	87.42	7.01	383.79
W-17BI	392.08	84.88	7.35	384.73
W-18AS	392.84	25.05	7.28	385.56
W-18AI	393.70	86.81	9.57	384.13
W-18BI	391.98	88.6	--	--
W-19AS	393.82	23.66	7.73	386.09
W-20I	397.10	85	32.96	364.14
W-21S	393.80	16.75	6.50	387.30
W-21I	393.80	81.42	6.87	386.93
W-22S	396.72	19.38	8.73	387.99
W-23	396.16	55.5	10.77	385.39
W-24	391.64	65	8.03	383.61
W-25	389.92	64	5.37	384.55
W-26	390.14	79	5.48	384.66
W-28	390.01	84.42	5.81	384.20
W-29	388.56	74.83	4.53	384.03
W-32	388.35	74	5.25	383.10
W-34	389.17	76	6.11	383.06
W-35	391.46	77	6.72	384.74
W-36	388.64	84	--	--

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	2,4,5-Trichlorophenol ¹	2,4,6-Trichlorophenol ¹	2,4-Dichlorophenol ¹	2,4-Dimethylphenol ¹	2,4-Dinitrophenol ¹	2,6-Dichlorophenol ¹	2-Chlorophenol ¹	2-Methylphenol ¹	2-Nitrophenol ¹	3 & 4 Methylphenol ¹	4-Chloro-3-methylphenol ¹	4-Methylphenol ¹	4-Nitrophenol ¹	Pentachlorophenol ¹	Phenol ¹
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
W-24	Off-Site	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.088 U	0.047 U	0.23 U	0.094 U	0.25 U	0.094 U	0.94 U	36	0.094 U
W-25	Off-Site	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.094 U	0.25 U	0.094 U	0.94 U	7.4 J	0.094 U
W-25 (Blind)	Off-Site	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.088 U	0.047 U	0.23 U	0.094 U	0.25 U	0.094 U	0.94 U	0.75 U	0.094 U
W-26	Off-Site	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.088 U	0.047 U	0.23 U	0.094 U	0.25 U	0.094 U	0.94 U	0.75 U	0.094 U
W-29	Off-Site	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.088 U	0.047 U	0.23 U	0.094 U	0.25 U	0.094 U	0.94 U	25	0.094 U
Equipment Rinsate Blank	--	3/24/2018	0.066 U	0.10 U	0.047 U	0.38 U	1.9 U	0.10 U	0.089 U	0.047 U	0.24 U	0.095 U	0.26 U	0.095 U	0.95 U	0.76 U	0.095 U

Notes

1 Analysis by EPA method 8270C Low Levels.

µg/L = micrograms per liter.

Blind = duplicate sample

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

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

Table 3. Groundwater Extraction System SummaryJ.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	--	--
Cumulative Amounts	--	--	401,176,800	--	--	--	230.95	0.98	1.06

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

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	--	--
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	--	--
Cumulative Amounts	--	--	61,603,200	--	--	--	650.50	1.43	2.26

Table 3. Groundwater Extraction System SummaryJ.H. Baxter Wood Treating Facility
Eugene, Oregon

Observation Period	Well W-131								
	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
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	--	--
Cumulative Amounts	--	--	130,082,400	--	--	--	760.24	2.06	0.28
TOTALS	--	--	592,862,400	--	--	--	1,641.69	4.47	3.59

Table 3. Groundwater Extraction System Summary

J.H. Baxter Wood Treating Facility

Eugene, Oregon

Notes

¹ Concentrations are averages of detected values from quarterly analytical results. For metals, the concentration is average of 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.

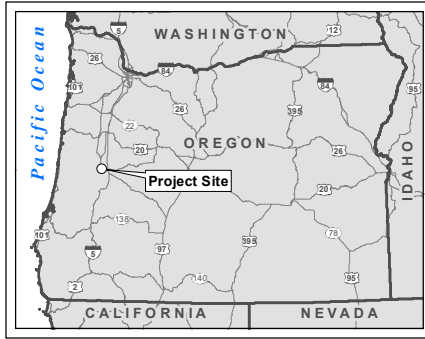
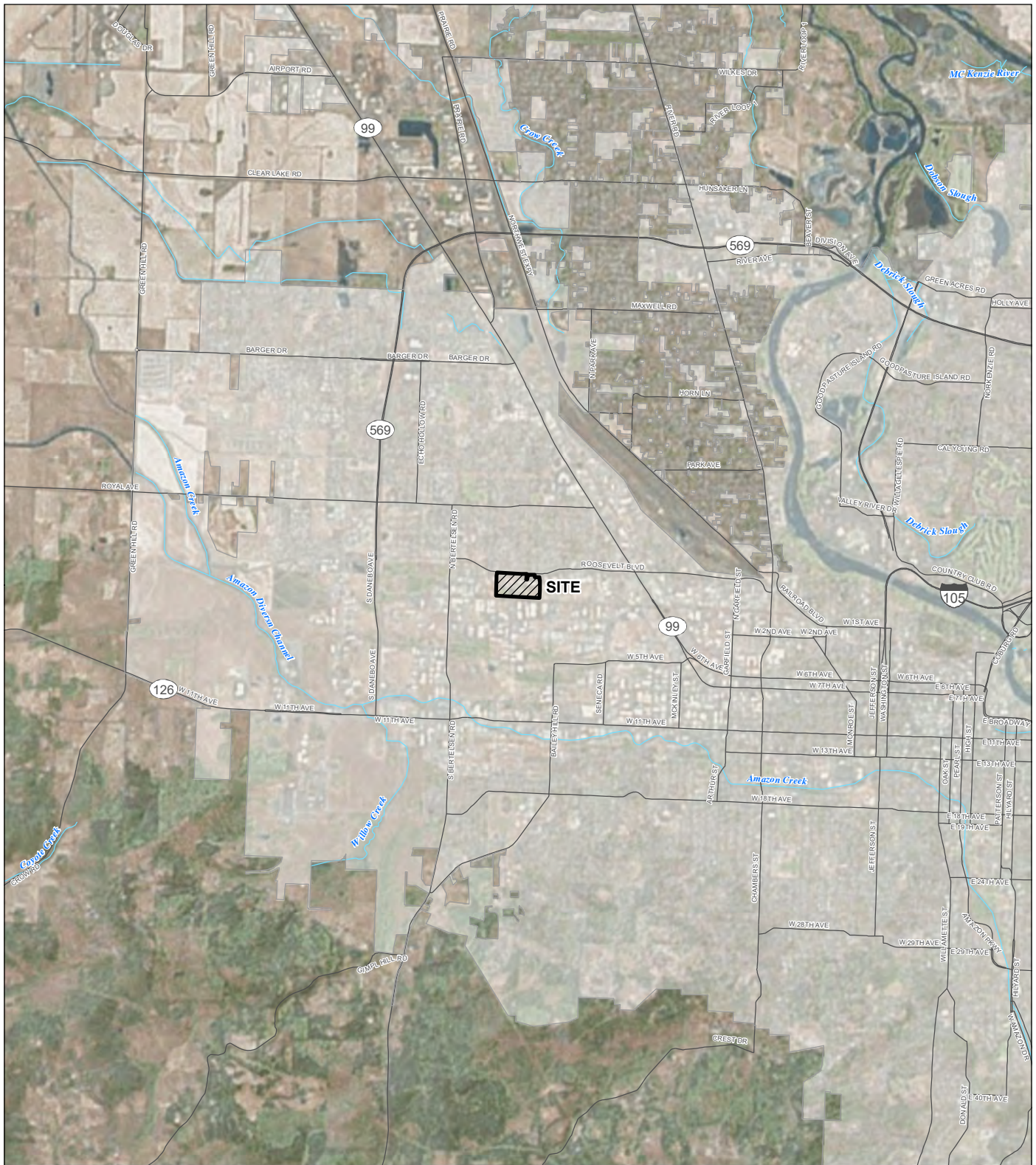
gpm = gallons per minute.





PCP = pentachlorophenol.

PAHs = polycyclic aromatic hydrocarbons.

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

Figures



- LEGEND**
-  Site
 -  Eugene City Limits
 -  Major Road
 -  Watercourse

Date: January 13, 2017
 Date Sources: Air photo taken on June 11, 2014 by the USDA

FIGURE 1
Site Vicinity Map
 : JfghHalf 201,
 J.H. Baxter Wood Treating Facility
 Eugene, Oregon


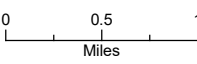





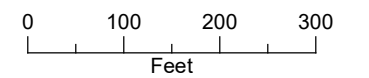
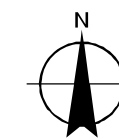
FIGURE 2

Site Detail Map
First Half 2018

J.H. Baxter Wood Treating Facility
Eugene, Oregon

LEGEND

- Facility Boundary
- +— Union Pacific Railroad



Date: January 13, 2017
Data Sources: AMEC, OGIC, ESRI, Air photo taken
on June 6, 2014 by Google Earth



FIGURE 3

Shallow Zone Groundwater Elevation, First Half 2018

J.H. Baxter Wood Treating Facility
Eugene, Oregon

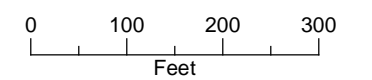
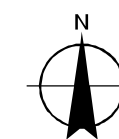


LEGEND

- Shallow Zone Monitoring Well (March 2018 Groundwater Elevation)
- Shallow Zone Extraction Well (March 2018 Groundwater Elevation)
- Groundwater Elevation Contours (dashed where inferred)
- Groundwater Flow Direction
- ▭ Facility Boundary
- +— Union Pacific Railroad

NOTE:

NM = Not Measured

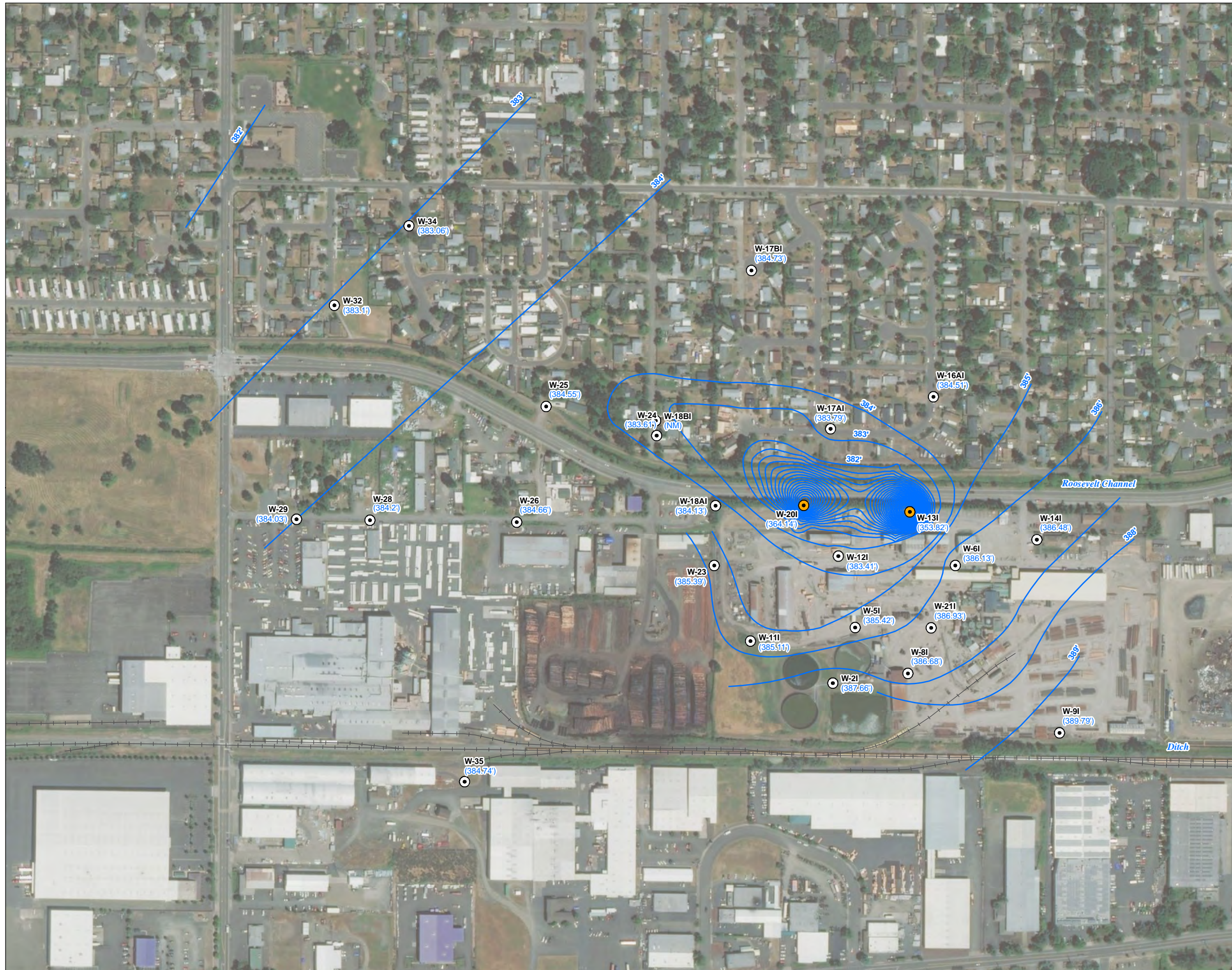


Date: July 25, 2018
Data Sources: AMEC, OGIC, ESRI

FIGURE 4

**Intermediate Zone Groundwater
Elevation, First Half 2018**

J.H. Baxter Wood Treating Facility
Eugene, Oregon



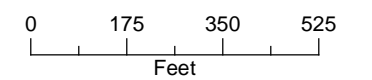
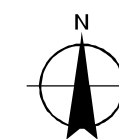
LEGEND

Well_Type

- Shallow Zone Monitoring Well
(March 2018 Groundwater Elevation)
- Shallow Zone Extraction Well
(March 2018 Groundwater Elevation)
- Groundwater Elevation Contours
(dashed where inferred)
- ➔ Groundwater Flow Direction
- ▭ Facility Boundary
- +— Union Pacific Railroad

NOTE:

NM = Not Measured



Date: July 27, 2018
Data Sources: AMEC, OGIC, ESRI, Air photo
taken August 2016 by Metro





FIGURE 5
Pentachlorophenol in Groundwater,
First Half 2018
 J.H. Baxter Wood Treating Facility
 Eugene, Oregon

LEGEND

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

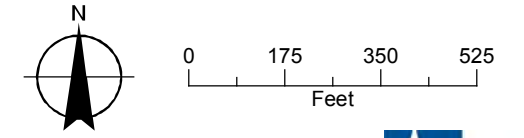
W-25
 7.4J
 W-25 (BLIND)
 0.75U

W-24
 36

W-29
 25

W-26
 0.75U

NOTE:
 Results in ug/L (micrograms per liter).
 Samples taken on March 24, 2018.
 Abbreviations:
 J- Estimated
 U- Not Detected Above Method
 Detection Limits



Date: July 23, 2018
 Data Sources: AMEC, OGIC, ESRI, Air photo
 taken August 2016 by Metro



Appendix A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-107812-1
Client Project/Site: Eugene, OR Facility

For:
J. H. Baxter & Co.
PO BOX 5902
San Mateo, California 94402

Attn: Georgia Baxter



Authorized for release by:
4/4/2018 2:26:56 PM

Jamie Ide, Project Manager I
(303)736-0126
jamie.ide@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
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QC Association	15
Chronicle	16
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Definitions/Glossary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Job ID: 280-107812-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: J. H. Baxter & Co.
Project: Eugene, OR Facility
Report Number: 280-107812-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 3/27/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples W-24 (280-107812-1), W-25 (280-107812-2), W-26 (280-107812-3), W-29 (280-107812-4), EQUIPMENT CHECK (280-107812-5) and BLIND (280-107812-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/28/2018 and analyzed on 04/02/2018 and 04/03/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary

Detection Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Client Sample ID: W-24

Lab Sample ID: 280-107812-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	36		9.4	0.75	ug/L	1		8270C LL	Total/NA

Client Sample ID: W-25

Lab Sample ID: 280-107812-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	7.4	J	9.4	0.75	ug/L	1		8270C LL	Total/NA

Client Sample ID: W-26

Lab Sample ID: 280-107812-3

No Detections.

Client Sample ID: W-29

Lab Sample ID: 280-107812-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	25		9.4	0.75	ug/L	1		8270C LL	Total/NA

Client Sample ID: EQUIPMENT CHECK

Lab Sample ID: 280-107812-5

No Detections.

Client Sample ID: BLIND

Lab Sample ID: 280-107812-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Method Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



Sample Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-107812-1	W-24	Water	03/24/18 11:19	03/27/18 09:50
280-107812-2	W-25	Water	03/24/18 12:47	03/27/18 09:50
280-107812-3	W-26	Water	03/24/18 12:18	03/27/18 09:50
280-107812-4	W-29	Water	03/24/18 11:47	03/27/18 09:50
280-107812-5	EQUIPMENT CHECK	Water	03/24/18 13:30	03/27/18 09:50
280-107812-6	BLIND	Water	03/24/18 13:15	03/27/18 09:50

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Client Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: W-24
Date Collected: 03/24/18 11:19
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/02/18 22:39	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/02/18 22:39	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 22:39	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/02/18 22:39	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/02/18 22:39	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/02/18 22:39	1
2-Chlorophenol	ND		4.7	0.088	ug/L		03/28/18 09:36	04/02/18 22:39	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 22:39	1
2-Nitrophenol	ND		4.7	0.23	ug/L		03/28/18 09:36	04/02/18 22:39	1
3 & 4 Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 22:39	1
4-Chloro-3-methylphenol	ND		4.7	0.25	ug/L		03/28/18 09:36	04/02/18 22:39	1
4-Nitrophenol	ND		4.7	0.94	ug/L		03/28/18 09:36	04/02/18 22:39	1
Pentachlorophenol	36		9.4	0.75	ug/L		03/28/18 09:36	04/02/18 22:39	1
Phenol	ND		9.4	0.094	ug/L		03/28/18 09:36	04/02/18 22:39	1
4-Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		24 - 143				03/28/18 09:36	04/02/18 22:39	1
2-Fluorobiphenyl	88		54 - 120				03/28/18 09:36	04/02/18 22:39	1
2-Fluorophenol (Surr)	80		45 - 121				03/28/18 09:36	04/02/18 22:39	1
Phenol-d5 (Surr)	80		40 - 126				03/28/18 09:36	04/02/18 22:39	1
Terphenyl-d14 (Surr)	80		70 - 125				03/28/18 09:36	04/02/18 22:39	1
Nitrobenzene-d5 (Surr)	86		48 - 123				03/28/18 09:36	04/02/18 22:39	1

Client Sample ID: W-25
Date Collected: 03/24/18 12:47
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/02/18 23:00	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/02/18 23:00	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:00	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/02/18 23:00	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/02/18 23:00	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/02/18 23:00	1
2-Chlorophenol	ND		4.7	0.089	ug/L		03/28/18 09:36	04/02/18 23:00	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:00	1
2-Nitrophenol	ND		4.7	0.24	ug/L		03/28/18 09:36	04/02/18 23:00	1
3 & 4 Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:00	1
4-Chloro-3-methylphenol	ND		4.7	0.25	ug/L		03/28/18 09:36	04/02/18 23:00	1
4-Nitrophenol	ND		4.7	0.94	ug/L		03/28/18 09:36	04/02/18 23:00	1
Pentachlorophenol	7.4	J	9.4	0.75	ug/L		03/28/18 09:36	04/02/18 23:00	1
Phenol	ND		9.4	0.094	ug/L		03/28/18 09:36	04/02/18 23:00	1
4-Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		24 - 143				03/28/18 09:36	04/02/18 23:00	1
2-Fluorobiphenyl	114		54 - 120				03/28/18 09:36	04/02/18 23:00	1
2-Fluorophenol (Surr)	104		45 - 121				03/28/18 09:36	04/02/18 23:00	1
Phenol-d5 (Surr)	96		40 - 126				03/28/18 09:36	04/02/18 23:00	1
Terphenyl-d14 (Surr)	89		70 - 125				03/28/18 09:36	04/02/18 23:00	1

TestAmerica Denver

Client Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: W-25
Date Collected: 03/24/18 12:47
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	97		48 - 123	03/28/18 09:36	04/02/18 23:00	1

Client Sample ID: W-26
Date Collected: 03/24/18 12:18
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/02/18 23:21	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/02/18 23:21	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:21	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/02/18 23:21	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/02/18 23:21	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/02/18 23:21	1
2-Chlorophenol	ND		4.7	0.088	ug/L		03/28/18 09:36	04/02/18 23:21	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:21	1
2-Nitrophenol	ND		4.7	0.23	ug/L		03/28/18 09:36	04/02/18 23:21	1
3 & 4 Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:21	1
4-Chloro-3-methylphenol	ND		4.7	0.25	ug/L		03/28/18 09:36	04/02/18 23:21	1
4-Nitrophenol	ND		4.7	0.94	ug/L		03/28/18 09:36	04/02/18 23:21	1
Pentachlorophenol	ND		9.4	0.75	ug/L		03/28/18 09:36	04/02/18 23:21	1
Phenol	ND		9.4	0.094	ug/L		03/28/18 09:36	04/02/18 23:21	1
4-Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		24 - 143	03/28/18 09:36	04/02/18 23:21	1
2-Fluorobiphenyl	88		54 - 120	03/28/18 09:36	04/02/18 23:21	1
2-Fluorophenol (Surr)	86		45 - 121	03/28/18 09:36	04/02/18 23:21	1
Phenol-d5 (Surr)	85		40 - 126	03/28/18 09:36	04/02/18 23:21	1
Terphenyl-d14 (Surr)	81		70 - 125	03/28/18 09:36	04/02/18 23:21	1
Nitrobenzene-d5 (Surr)	89		48 - 123	03/28/18 09:36	04/02/18 23:21	1

Client Sample ID: W-29
Date Collected: 03/24/18 11:47
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/02/18 23:43	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/02/18 23:43	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:43	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/02/18 23:43	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/02/18 23:43	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/02/18 23:43	1
2-Chlorophenol	ND		4.7	0.088	ug/L		03/28/18 09:36	04/02/18 23:43	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/02/18 23:43	1
2-Nitrophenol	ND		4.7	0.23	ug/L		03/28/18 09:36	04/02/18 23:43	1
3 & 4 Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:43	1
4-Chloro-3-methylphenol	ND		4.7	0.25	ug/L		03/28/18 09:36	04/02/18 23:43	1
4-Nitrophenol	ND		4.7	0.94	ug/L		03/28/18 09:36	04/02/18 23:43	1
Pentachlorophenol	25		9.4	0.75	ug/L		03/28/18 09:36	04/02/18 23:43	1
Phenol	ND		9.4	0.094	ug/L		03/28/18 09:36	04/02/18 23:43	1
4-Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/02/18 23:43	1

TestAmerica Denver

Client Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 143	03/28/18 09:36	04/02/18 23:43	1
2-Fluorobiphenyl	94		54 - 120	03/28/18 09:36	04/02/18 23:43	1
2-Fluorophenol (Surr)	102		45 - 121	03/28/18 09:36	04/02/18 23:43	1
Phenol-d5 (Surr)	96		40 - 126	03/28/18 09:36	04/02/18 23:43	1
Terphenyl-d14 (Surr)	84		70 - 125	03/28/18 09:36	04/02/18 23:43	1
Nitrobenzene-d5 (Surr)	92		48 - 123	03/28/18 09:36	04/02/18 23:43	1

Client Sample ID: EQUIPMENT CHECK

Date Collected: 03/24/18 13:30

Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/03/18 00:04	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/03/18 00:04	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/03/18 00:04	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/03/18 00:04	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/03/18 00:04	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/03/18 00:04	1
2-Chlorophenol	ND		4.7	0.089	ug/L		03/28/18 09:36	04/03/18 00:04	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/03/18 00:04	1
2-Nitrophenol	ND		4.7	0.24	ug/L		03/28/18 09:36	04/03/18 00:04	1
3 & 4 Methylphenol	ND		4.7	0.095	ug/L		03/28/18 09:36	04/03/18 00:04	1
4-Chloro-3-methylphenol	ND		4.7	0.26	ug/L		03/28/18 09:36	04/03/18 00:04	1
4-Nitrophenol	ND		4.7	0.95	ug/L		03/28/18 09:36	04/03/18 00:04	1
Pentachlorophenol	ND		9.5	0.76	ug/L		03/28/18 09:36	04/03/18 00:04	1
Phenol	ND		9.5	0.095	ug/L		03/28/18 09:36	04/03/18 00:04	1
4-Methylphenol	ND		4.7	0.095	ug/L		03/28/18 09:36	04/03/18 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		24 - 143	03/28/18 09:36	04/03/18 00:04	1
2-Fluorobiphenyl	89		54 - 120	03/28/18 09:36	04/03/18 00:04	1
2-Fluorophenol (Surr)	98		45 - 121	03/28/18 09:36	04/03/18 00:04	1
Phenol-d5 (Surr)	88		40 - 126	03/28/18 09:36	04/03/18 00:04	1
Terphenyl-d14 (Surr)	86		70 - 125	03/28/18 09:36	04/03/18 00:04	1
Nitrobenzene-d5 (Surr)	90		48 - 123	03/28/18 09:36	04/03/18 00:04	1

Client Sample ID: BLIND

Date Collected: 03/24/18 13:15

Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		4.7	0.066	ug/L		03/28/18 09:36	04/03/18 00:25	1
2,4,6-Trichlorophenol	ND		4.7	0.10	ug/L		03/28/18 09:36	04/03/18 00:25	1
2,4-Dichlorophenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/03/18 00:25	1
2,4-Dimethylphenol	ND		4.7	0.38	ug/L		03/28/18 09:36	04/03/18 00:25	1
2,4-Dinitrophenol	ND		19	1.9	ug/L		03/28/18 09:36	04/03/18 00:25	1
2,6-Dichlorophenol	ND		0.47	0.10	ug/L		03/28/18 09:36	04/03/18 00:25	1
2-Chlorophenol	ND		4.7	0.088	ug/L		03/28/18 09:36	04/03/18 00:25	1
2-Methylphenol	ND		4.7	0.047	ug/L		03/28/18 09:36	04/03/18 00:25	1
2-Nitrophenol	ND		4.7	0.23	ug/L		03/28/18 09:36	04/03/18 00:25	1
3 & 4 Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/03/18 00:25	1
4-Chloro-3-methylphenol	ND		4.7	0.25	ug/L		03/28/18 09:36	04/03/18 00:25	1
4-Nitrophenol	ND		4.7	0.94	ug/L		03/28/18 09:36	04/03/18 00:25	1
Pentachlorophenol	ND		9.4	0.75	ug/L		03/28/18 09:36	04/03/18 00:25	1
Phenol	ND		9.4	0.094	ug/L		03/28/18 09:36	04/03/18 00:25	1

TestAmerica Denver

Client Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Client Sample ID: BLIND
Date Collected: 03/24/18 13:15
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		4.7	0.094	ug/L		03/28/18 09:36	04/03/18 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 143				03/28/18 09:36	04/03/18 00:25	1
2-Fluorobiphenyl	90		54 - 120				03/28/18 09:36	04/03/18 00:25	1
2-Fluorophenol (Surr)	87		45 - 121				03/28/18 09:36	04/03/18 00:25	1
Phenol-d5 (Surr)	88		40 - 126				03/28/18 09:36	04/03/18 00:25	1
Terphenyl-d14 (Surr)	76		70 - 125				03/28/18 09:36	04/03/18 00:25	1
Nitrobenzene-d5 (Surr)	92		48 - 123				03/28/18 09:36	04/03/18 00:25	1

Surrogate Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-143)	FBP (54-120)	2FP (45-121)	PHL (40-126)	TPHL (70-125)	NBZ (48-123)
280-107812-1	W-24	54	88	80	80	80	86
280-107812-2	W-25	86	114	104	96	89	97
280-107812-3	W-26	67	88	86	85	81	89
280-107812-4	W-29	95	94	102	96	84	92
280-107812-5	EQUIPMENT CHECK	89	89	98	88	86	90
280-107812-6	BLIND	95	90	87	88	76	92
LCS 280-409315/2-A	Lab Control Sample	97	90	84	91	82	86
LCSD 280-409315/3-A	Lab Control Sample Dup	93	88	83	85	79	90
MB 280-409315/1-A	Method Blank	49	90	95	91	80	96

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)

QC Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 280-409315/1-A
Matrix: Water
Analysis Batch: 409910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 409315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.070	ug/L		03/28/18 09:36	04/02/18 20:52	1
2,4,6-Trichlorophenol	ND		5.0	0.11	ug/L		03/28/18 09:36	04/02/18 20:52	1
2,4-Dichlorophenol	ND		5.0	0.050	ug/L		03/28/18 09:36	04/02/18 20:52	1
2,4-Dimethylphenol	ND		5.0	0.40	ug/L		03/28/18 09:36	04/02/18 20:52	1
2,4-Dinitrophenol	ND		20	2.0	ug/L		03/28/18 09:36	04/02/18 20:52	1
2,6-Dichlorophenol	ND		0.50	0.11	ug/L		03/28/18 09:36	04/02/18 20:52	1
2-Chlorophenol	ND		5.0	0.094	ug/L		03/28/18 09:36	04/02/18 20:52	1
2-Methylphenol	ND		5.0	0.050	ug/L		03/28/18 09:36	04/02/18 20:52	1
2-Nitrophenol	ND		5.0	0.25	ug/L		03/28/18 09:36	04/02/18 20:52	1
3 & 4 Methylphenol	ND		5.0	0.10	ug/L		03/28/18 09:36	04/02/18 20:52	1
4-Chloro-3-methylphenol	ND		5.0	0.27	ug/L		03/28/18 09:36	04/02/18 20:52	1
4-Nitrophenol	ND		5.0	1.0	ug/L		03/28/18 09:36	04/02/18 20:52	1
Pentachlorophenol	ND		10	0.80	ug/L		03/28/18 09:36	04/02/18 20:52	1
Phenol	ND		10	0.10	ug/L		03/28/18 09:36	04/02/18 20:52	1
4-Methylphenol	ND		5.0	0.10	ug/L		03/28/18 09:36	04/02/18 20:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		24 - 143	03/28/18 09:36	04/02/18 20:52	1
2-Fluorobiphenyl	90		54 - 120	03/28/18 09:36	04/02/18 20:52	1
2-Fluorophenol (Surr)	95		45 - 121	03/28/18 09:36	04/02/18 20:52	1
Phenol-d5 (Surr)	91		40 - 126	03/28/18 09:36	04/02/18 20:52	1
Terphenyl-d14 (Surr)	80		70 - 125	03/28/18 09:36	04/02/18 20:52	1
Nitrobenzene-d5 (Surr)	96		48 - 123	03/28/18 09:36	04/02/18 20:52	1

Lab Sample ID: LCS 280-409315/2-A
Matrix: Water
Analysis Batch: 409910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 409315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	10.0	9.09		ug/L		91	25 - 120
2,4,6-Trichlorophenol	10.0	9.27		ug/L		93	25 - 120
2,4-Dimethylphenol	10.0	8.01		ug/L		80	26 - 120
2,4-Dinitrophenol	20.0	16.5	J	ug/L		83	10 - 120
2,6-Dichlorophenol	10.0	9.58		ug/L		96	50 - 150
2-Chlorophenol	10.0	8.45		ug/L		85	35 - 120
2-Methylphenol	10.0	8.93		ug/L		89	45 - 120
2-Nitrophenol	10.0	9.85		ug/L		99	45 - 120
3 & 4 Methylphenol	10.0	9.27		ug/L		93	28 - 120
4-Chloro-3-methylphenol	10.0	9.56		ug/L		96	35 - 120
4-Nitrophenol	20.0	17.7		ug/L		88	15 - 120
Pentachlorophenol	20.0	14.7		ug/L		74	14 - 120
Phenol	10.0	7.41	J	ug/L		74	38 - 120
4-Methylphenol	10.0	9.27		ug/L		93	34 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		24 - 143
2-Fluorobiphenyl	90		54 - 120

TestAmerica Denver

QC Sample Results

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 280-409315/2-A
Matrix: Water
Analysis Batch: 409910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 409315

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	84		45 - 121
Phenol-d5 (Surr)	91		40 - 126
Terphenyl-d14 (Surr)	82		70 - 125
Nitrobenzene-d5 (Surr)	86		48 - 123

Lab Sample ID: LCSD 280-409315/3-A
Matrix: Water
Analysis Batch: 409910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 409315

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2,4,5-Trichlorophenol	10.0	8.62		ug/L		86	25 - 120	5	35	
2,4,6-Trichlorophenol	10.0	8.95		ug/L		90	25 - 120	4	30	
2,4-Dimethylphenol	10.0	6.99		ug/L		70	26 - 120	14	31	
2,4-Dinitrophenol	20.0	15.4	J	ug/L		77	10 - 120	7	30	
2,6-Dichlorophenol	10.0	9.15		ug/L		91	50 - 150	5	30	
2-Chlorophenol	10.0	8.72		ug/L		87	35 - 120	3	38	
2-Methylphenol	10.0	8.29		ug/L		83	45 - 120	7	30	
2-Nitrophenol	10.0	9.17		ug/L		92	45 - 120	7	32	
3 & 4 Methylphenol	10.0	8.59		ug/L		86	28 - 120	8	27	
4-Chloro-3-methylphenol	10.0	8.99		ug/L		90	35 - 120	6	28	
4-Nitrophenol	20.0	17.0		ug/L		85	15 - 120	4	53	
Pentachlorophenol	20.0	15.4		ug/L		77	14 - 120	4	50	
Phenol	10.0	8.46	J	ug/L		85	38 - 120	13	36	
4-Methylphenol	10.0	8.59		ug/L		86	34 - 120	8	27	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	93		24 - 143
2-Fluorobiphenyl	88		54 - 120
2-Fluorophenol (Surr)	83		45 - 121
Phenol-d5 (Surr)	85		40 - 126
Terphenyl-d14 (Surr)	79		70 - 125
Nitrobenzene-d5 (Surr)	90		48 - 123

QC Association Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

GC/MS Semi VOA

Prep Batch: 409315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107812-1	W-24	Total/NA	Water	3520C	
280-107812-2	W-25	Total/NA	Water	3520C	
280-107812-3	W-26	Total/NA	Water	3520C	
280-107812-4	W-29	Total/NA	Water	3520C	
280-107812-5	EQUIPMENT CHECK	Total/NA	Water	3520C	
280-107812-6	BLIND	Total/NA	Water	3520C	
MB 280-409315/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-409315/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-409315/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 409910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107812-1	W-24	Total/NA	Water	8270C LL	409315
280-107812-2	W-25	Total/NA	Water	8270C LL	409315
280-107812-3	W-26	Total/NA	Water	8270C LL	409315
280-107812-4	W-29	Total/NA	Water	8270C LL	409315
280-107812-5	EQUIPMENT CHECK	Total/NA	Water	8270C LL	409315
280-107812-6	BLIND	Total/NA	Water	8270C LL	409315
MB 280-409315/1-A	Method Blank	Total/NA	Water	8270C LL	409315
LCS 280-409315/2-A	Lab Control Sample	Total/NA	Water	8270C LL	409315
LCSD 280-409315/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	409315

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Client Sample ID: W-24
Date Collected: 03/24/18 11:19
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1063.9 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/02/18 22:39	MKW	TAL DEN

Client Sample ID: W-25
Date Collected: 03/24/18 12:47
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1061.6 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/02/18 23:00	MKW	TAL DEN

Client Sample ID: W-26
Date Collected: 03/24/18 12:18
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1065.2 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/02/18 23:21	MKW	TAL DEN

Client Sample ID: W-29
Date Collected: 03/24/18 11:47
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1066.6 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/02/18 23:43	MKW	TAL DEN

Client Sample ID: EQUIPMENT CHECK
Date Collected: 03/24/18 13:30
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1058.1 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/03/18 00:04	MKW	TAL DEN

Client Sample ID: BLIND
Date Collected: 03/24/18 13:15
Date Received: 03/27/18 09:50

Lab Sample ID: 280-107812-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1066.3 mL	2 mL	409315	03/28/18 09:36	JT	TAL DEN
Total/NA	Analysis	8270C LL		1			409910	04/03/18 00:25	MKW	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Accreditation/Certification Summary

Client: J. H. Baxter & Co.
Project/Site: Eugene, OR Facility

TestAmerica Job ID: 280-107812-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Oregon	NELAP	10	4025	01-08-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270C LL	3520C	Water	2,4,5-Trichlorophenol
8270C LL	3520C	Water	2,4,6-Trichlorophenol
8270C LL	3520C	Water	2,4-Dichlorophenol
8270C LL	3520C	Water	2,4-Dimethylphenol
8270C LL	3520C	Water	2,4-Dinitrophenol
8270C LL	3520C	Water	2,6-Dichlorophenol
8270C LL	3520C	Water	2-Chlorophenol
8270C LL	3520C	Water	2-Methylphenol
8270C LL	3520C	Water	2-Nitrophenol
8270C LL	3520C	Water	3 & 4 Methylphenol
8270C LL	3520C	Water	4-Chloro-3-methylphenol
8270C LL	3520C	Water	4-Methylphenol
8270C LL	3520C	Water	4-Nitrophenol
8270C LL	3520C	Water	Pentachlorophenol
8270C LL	3520C	Water	Phenol

TestAmerica Denver

4955 Yarrow Street
 Arvada, CO 80002
 Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



Client Information

Client Contact: Scott Thielke
 Phone: 541 689.3801 (Ext. 4)
 Email: lamie_ide@lestamericainc.com

Company: J. H. Baxter & Co.
 Address: PO BOX 5902
 City: San Mateo
 State, Zip: CA, 94402

PO #:
 W/O #:
 Project #:
 SSONW#:

Lab Pkt. Id: Jamie N
 Email: lamie_ide@lestamericainc.com

Carrier Tracking Note:

COC No:
 Page 1 of 1
 Job #:

Analysis Requested

Due Date Requested:
 TAT Requested (days): 10 Business Days

Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)

8270C - Pentachlorophenol (2X1L Amber)	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
200.8 - Metals (As, Cr, Cu, Zn) (1x500mL Poly)																						
200.8 - Diss. Metals (As, Cr, Cu, Zn) (1x500mL Poly)																						
8270C LL - Phenols (2X1L Amber)																						
EPA 625 - PAH (2X1L Amber)																						
EPA 1311 - TCLP																						
8260 - VOCs																						
8270 - SVOCs																						
200.8 - Lead																						
2340 C - Hardness (1x500ml Poly)																						
SM 5210B - BOD (1 liter Poly)																						

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4.5
 Z - other (specify)
 Other:

Sample Identification	Sample Date	Sample Time	Sample Type (G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
W-24	3/24/18	1119	G	W	Y	N	2	2	
W-25	3/24/18	1247	G	W	Y	N	2	2	
W-26	3/24/18	1218	G	W	Y	N	2	2	
W-29	3/24/18	1147	G	W	Y	N	2	2	
Equipment Check	3/24/18	1330	G	W	Y	N	2	2	
Blind	3/24/18	1315	G	W	Y	N	2	2	



Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QOC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: Scott Thielke Date/Time: 3-26-18 0900 Company: JH Baxter

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____

Δ Yes Δ No

Received by: _____ Received by: _____ Received by: _____

Date/Time: 3/27/18 0950 Date/Time: _____ Date/Time: _____

Company: TM-06-1 Company: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 0.600-0.1 FR 48

Login Sample Receipt Checklist

Client: J. H. Baxter & Co.

Job Number: 280-107812-1

Login Number: 107812

List Number: 1

Creator: Ide, Jamie N

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B



Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 3/24/88

Well # 24 Well Depth: 65' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 8.03

Measuring Point T.O.C. Well Location Waite Street

Sampling Personnel S.THELKE/J.THELKE

Time	Temp. C°	pH (+/- .1)	DRP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss O2 mg/l (+/-10%)	Water Level	Notes
10:55							8.03	
11:00	13.11	7.88	216	.545	13.9	16.63		
11:03	13.77	7.46	227	.601	33.0	5.08		
11:07	13.79	7.36	228	.619	28.5	2.46	7.85	
11:10	13.63	7.27	230	.616	23.4	1.32		
11:14	13.17	7.24	230	.529	15.2	.99		
11:17	12.86	7.24	233	.627	10.0	.69		
11:19								SAMPLE TAKEN
Samples Collected								
	PAH 8270c	Phenols	Total Cu,Cr,Zn,As				Diss. Cu,Cr,Zn,As (filtered)	
		✓						



Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 3-24-18

Well # 25 Well Depth: 52' Screen length: 10' Dia. 4" Casing type: PVC

Sampling Device _____ Tubing Type POLY Water Level 5.37

Measuring Point T.O.C. Well Location Roosevelt @ Chase

Sampling Personell S. THELKE / J. THELKE

Time	Temp. C	pH (+/- .1)	ORP Redox. (+/- 10mv)	mS/cm Cond. (+/- 3%)	NTU Turb. (+/- 10%)	Diss. O2 mg/l (+/- 10%)	Water level	Notes
12:28							5.37	
12:30	13.17	7.77	290	.545	1.8	9.17		
12:33	14.30	7.37	294	.628	15.2	.46		
12:36	14.44	7.36	293	.645	11.6	0		
12:41	14.51	7.38	287	.648	7.2	0	5.42	
12:45	14.54	7.35	284	.644	5.4	0		
12:47								SAMPLE TAKEN
13:15		BLIND TAKEN AT THIS WELL						

Samples Collected

PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 3-24-18

Well # 26 Well Depth: 77' Screen length: 5' Dia. 4" Casing type: PVC

Sampling Device HOLIBA Tubing Type POLY Water Level 5.48

Measuring Point T.O.C. Well Location Cross Street

Sampling Personnel S. THIERKE / J. THIERKE

Time	Temp. C	pH (N/A)	ORP Redox (±/10mv)	mS/cm Cond. (±/3%)	NTU Turb. (±/10%)	Diss. O2 mg/l (±/10%)	Water Level	Notes
11:55							5.48	
12:00	12.88	8.05	263	.187	4.0	13.45		
12:04	14.15	7.44	286	.396	10.7	4.80		
12:10	14.20	7.60	275	.423	5.9	4.14		
12:13	14.21	7.55	275	.429	4.7	3.93	5.47	
12:16	14.05	7.40	279	.429	3.7	4.04		
12:18								SAMPLE TAKEN
Samples Collected		PAH 8270c	Phenols	Total Cu,Cr,Zn,As	Diss. Cu,Cr,Zn,As (filtered)			
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			



Eugene Ground Water Sampling Field Log

Site: JH Baxter Eugene, OR

Date 3-24-18

Well # 29 Well Depth: 75' Screen length: 5' Dia. 2.5" Casing type: PVC

Sampling Device HORIBA Tubing Type POLY Water Level 4.53

Measuring Point T.O.C. Well Location Cross Street

Sampling Personnel S. THREKE / J. THREKE

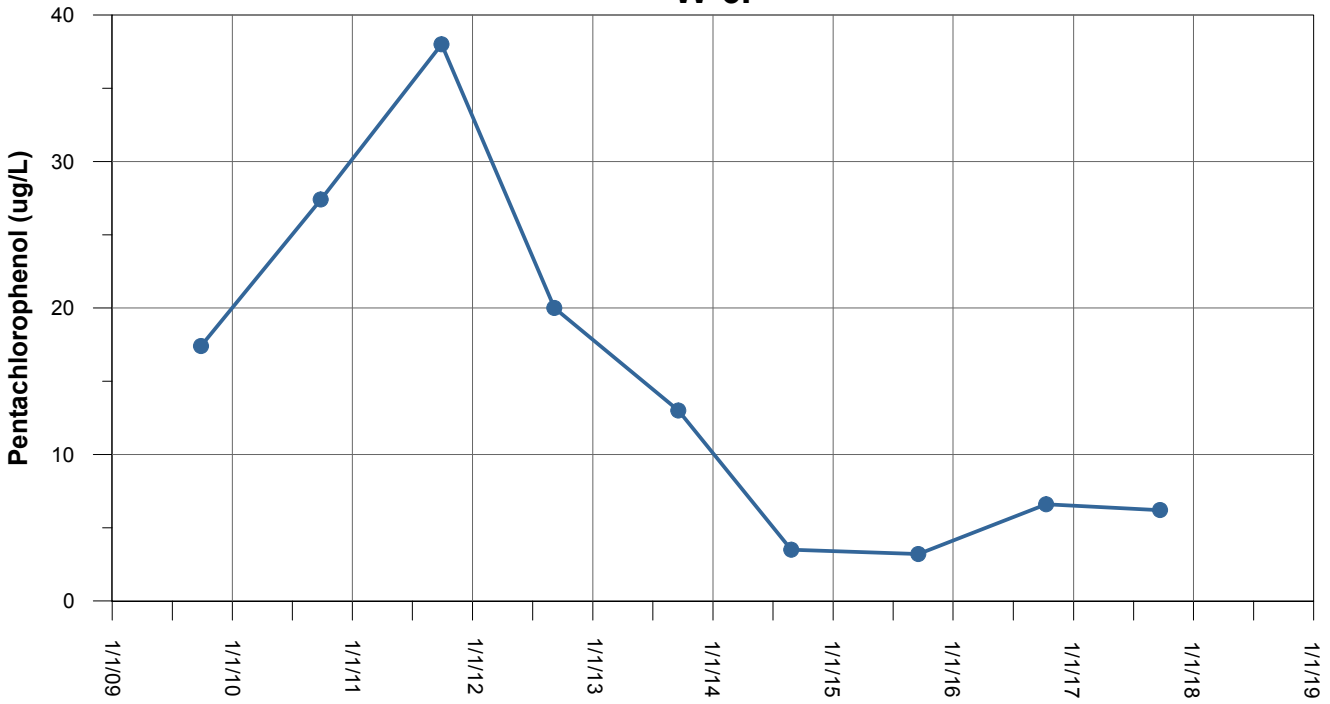
Time	Temp. C	pH (+/-1)	ORP Redox. (+/-10mv)	mS/cm Cond. (+/-3%)	NTU Turb. (+/-10%)	Diss. O2 mg/l (+/-10%)	Water Level	Notes
11:26							4.53	
11:32	14.03	8.02	254	.250	11.2	8.62		
11:36	14.61	7.52	267	.493	25.1	.89		
11:39	14.91	7.44	265	.516	22.1	0	4.6	
11:42	14.92	7.42	263	.522	18.9	0		
11:45	14.96	7.39	261	.524	13.0	0		
11:47								Sample taken

Samples Collected PAH 8270c Phenols Total Cu,Cr,Zn,As Diss. Cu,Cr,Zn,As (filtered)

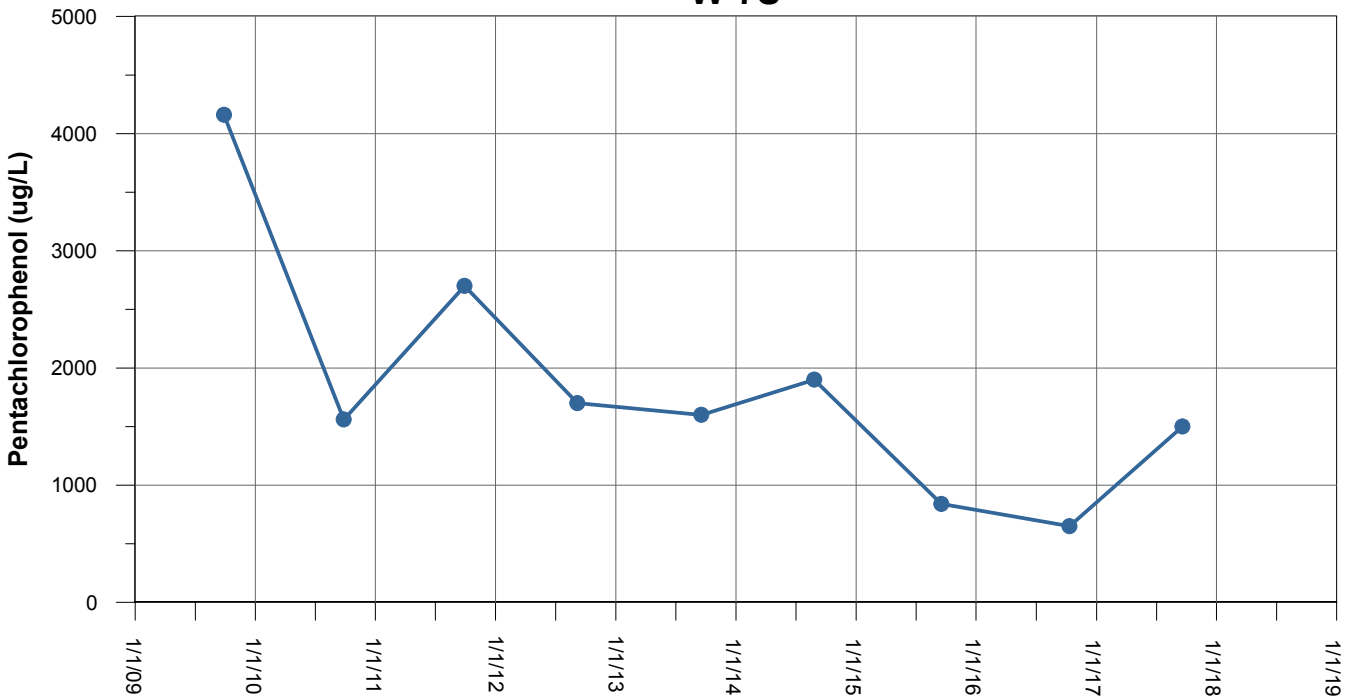
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Appendix C

W-6I



W-7S



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:

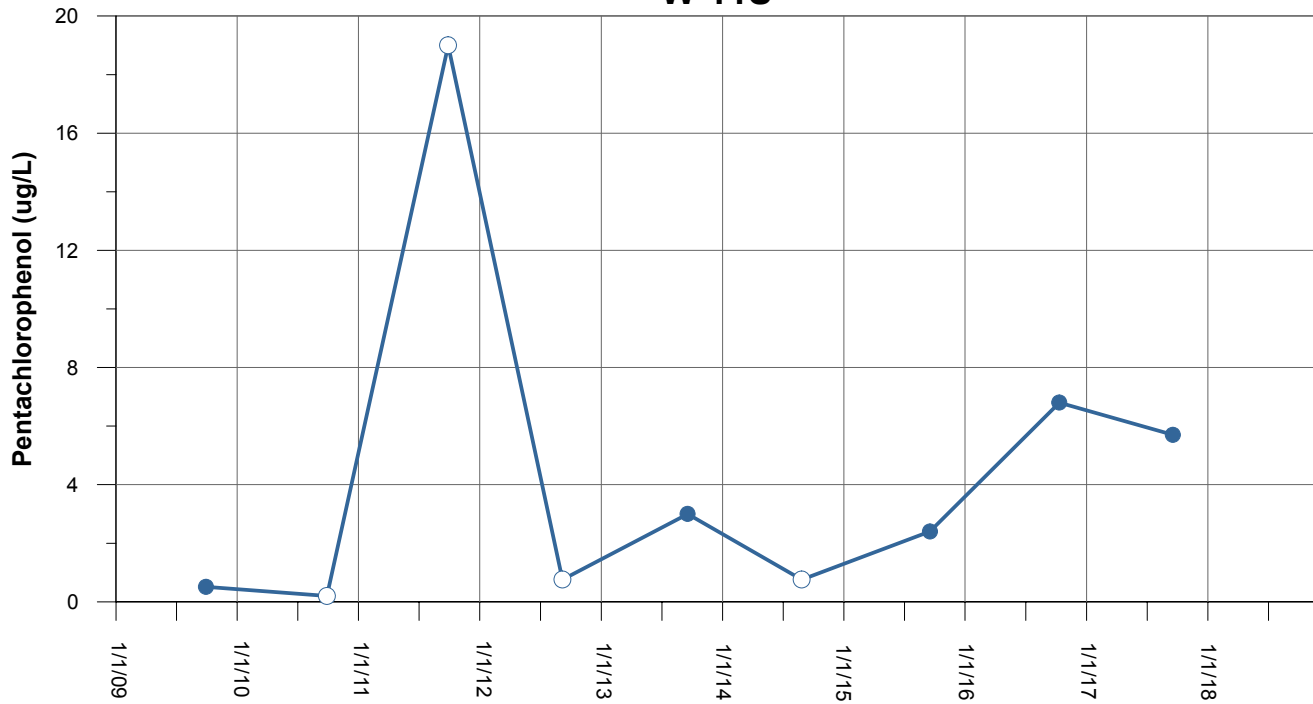
ug/L = microgram per liter

FIGURE C-1
Pentachlorophenol Groundwater Concentrations
in W-6I and W-7S

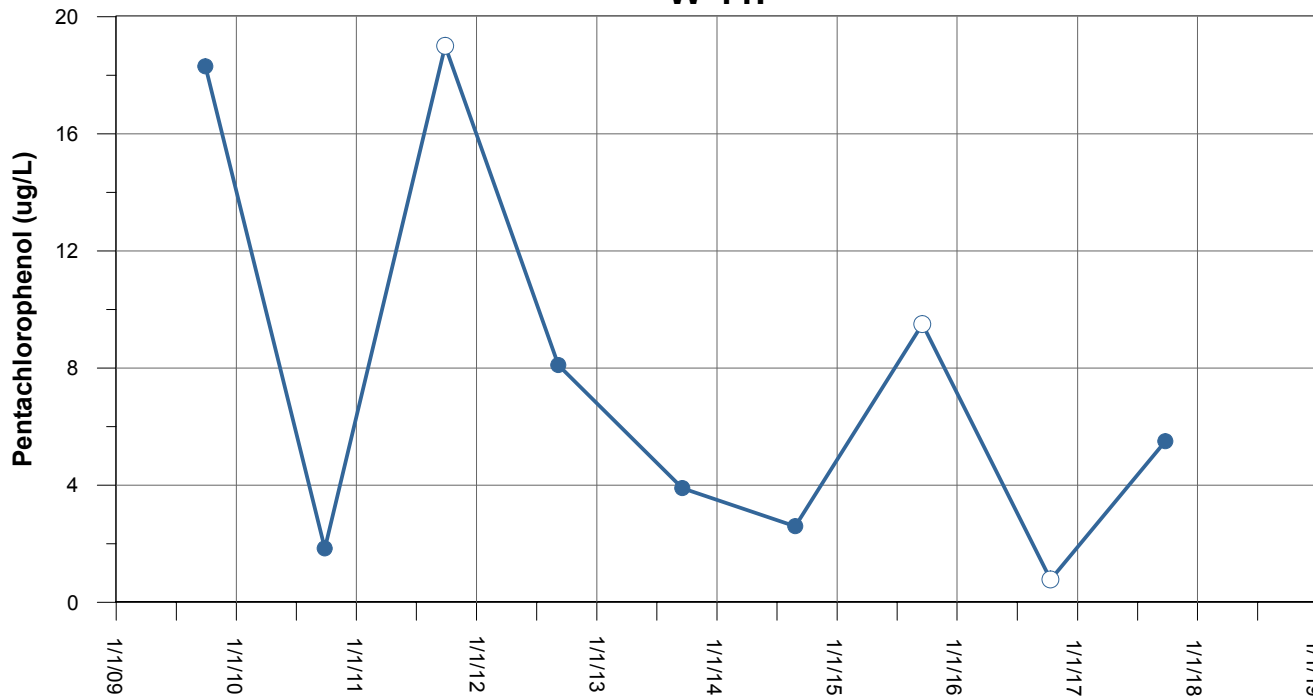
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-11S



W-11I



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:

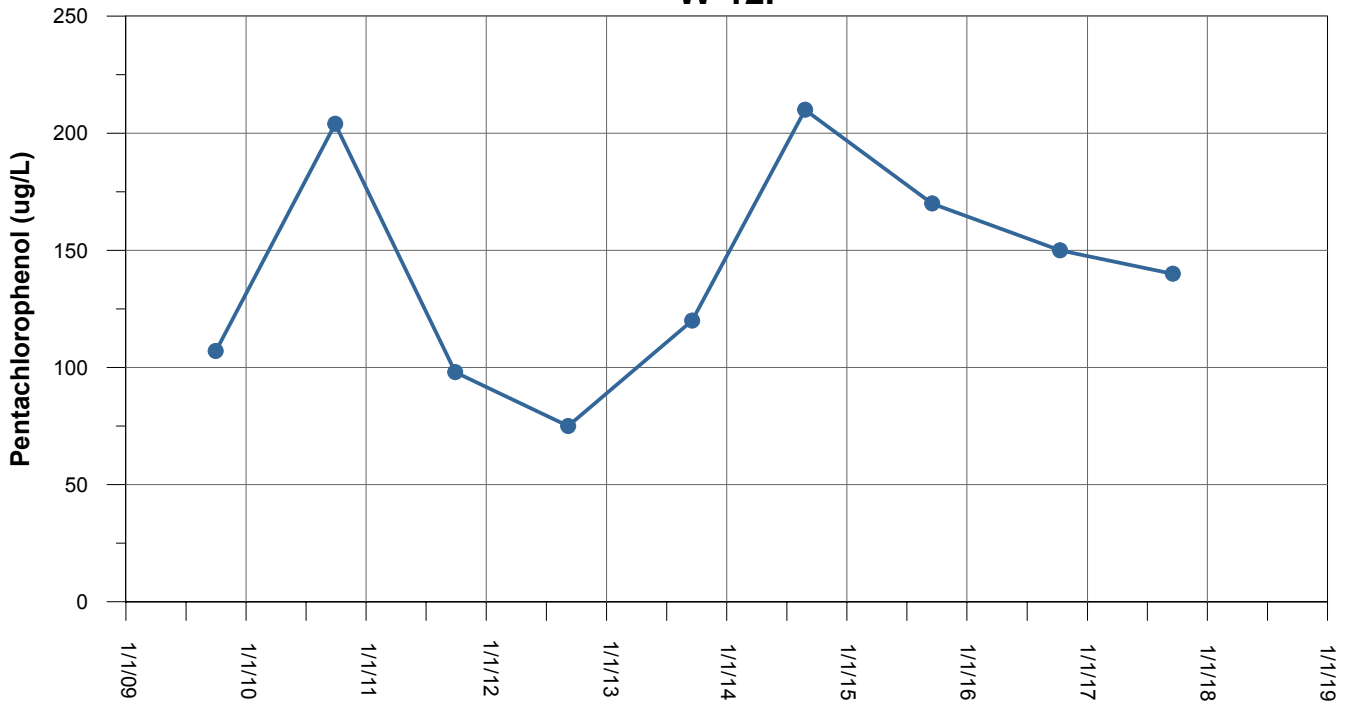
ug/L = microgram per liter

FIGURE C-2 Pentachlorophenol Groundwater Concentrations in W-11S and W-11I

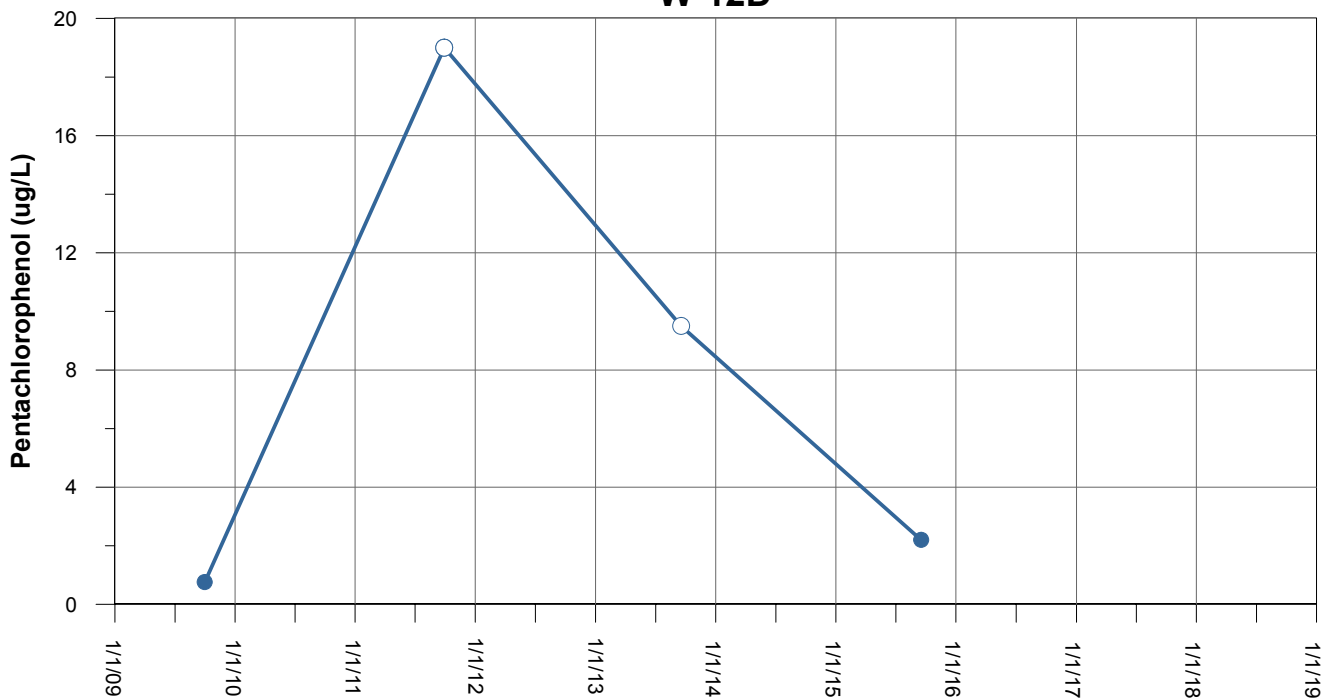
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-12I



W-12D



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

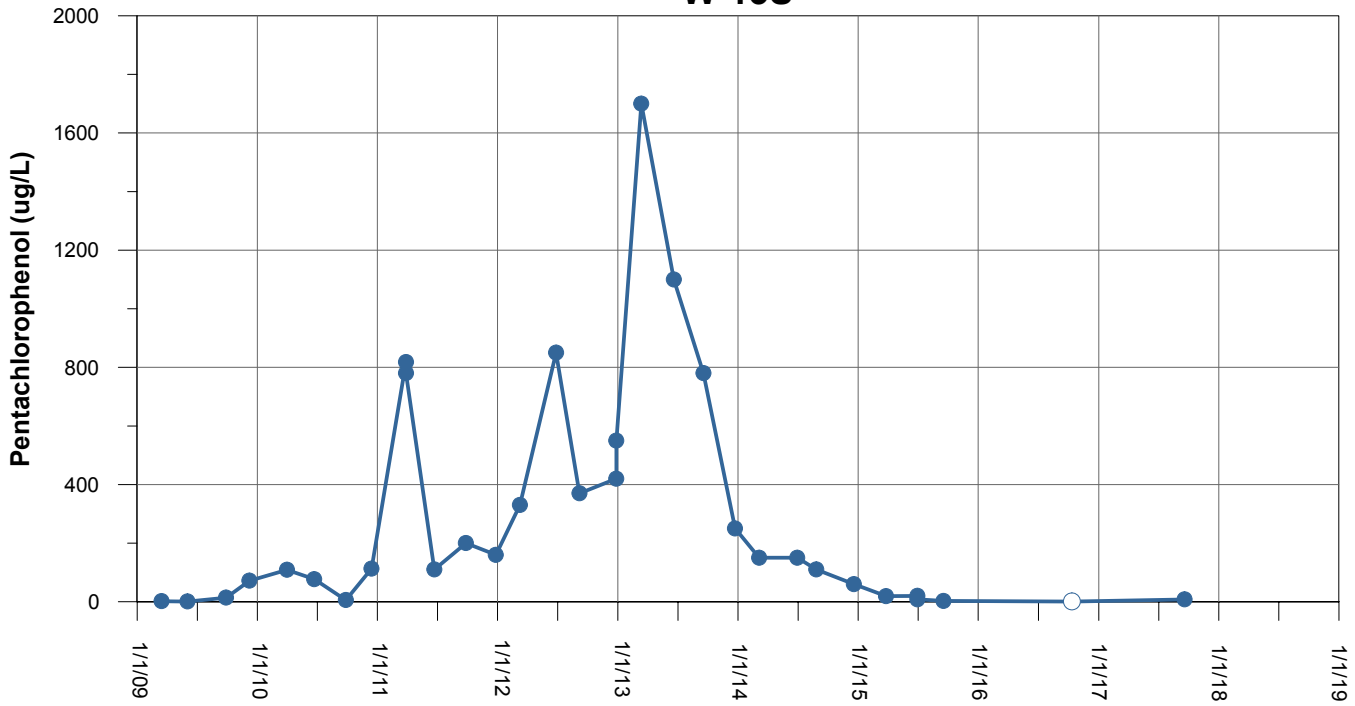
Notes:

ug/L = microgram per liter
W-12D sampled every other year.

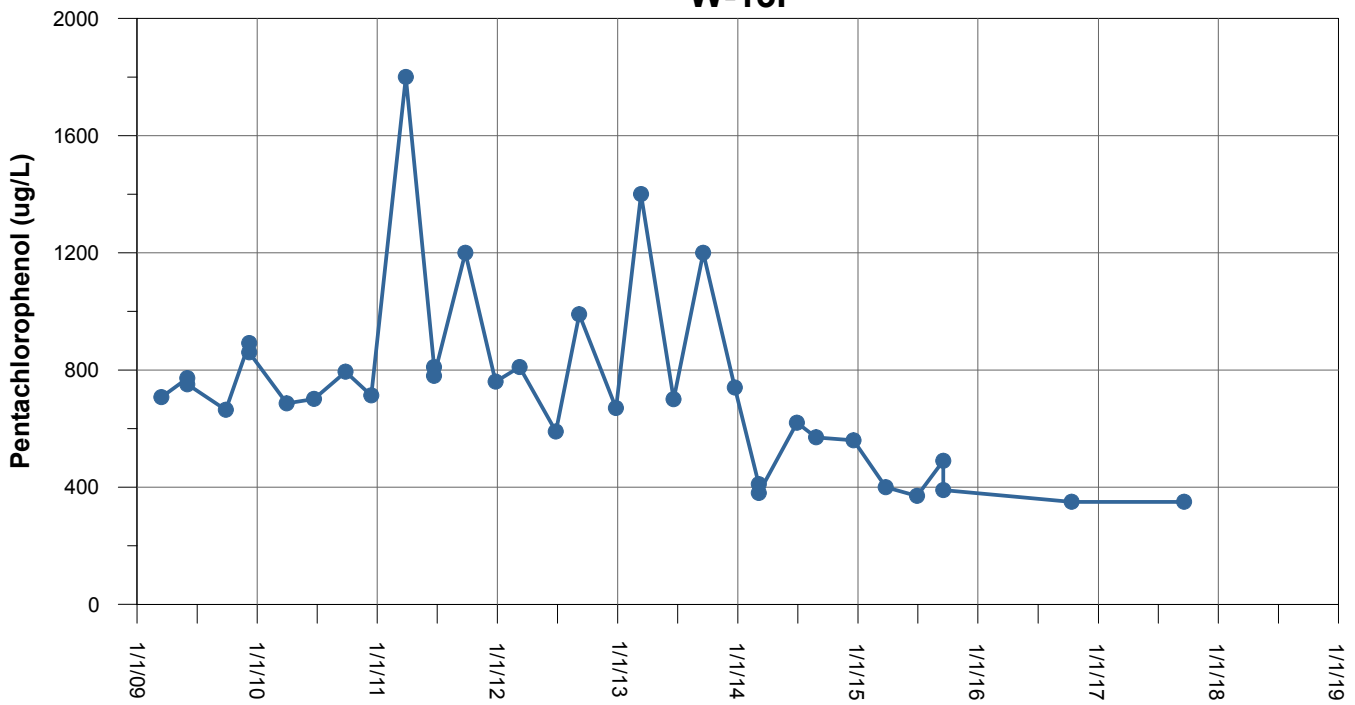
FIGURE C-3
Pentachlorophenol Groundwater Concentrations
in W-12I and W-12D
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-13S



W-13I



Legend:

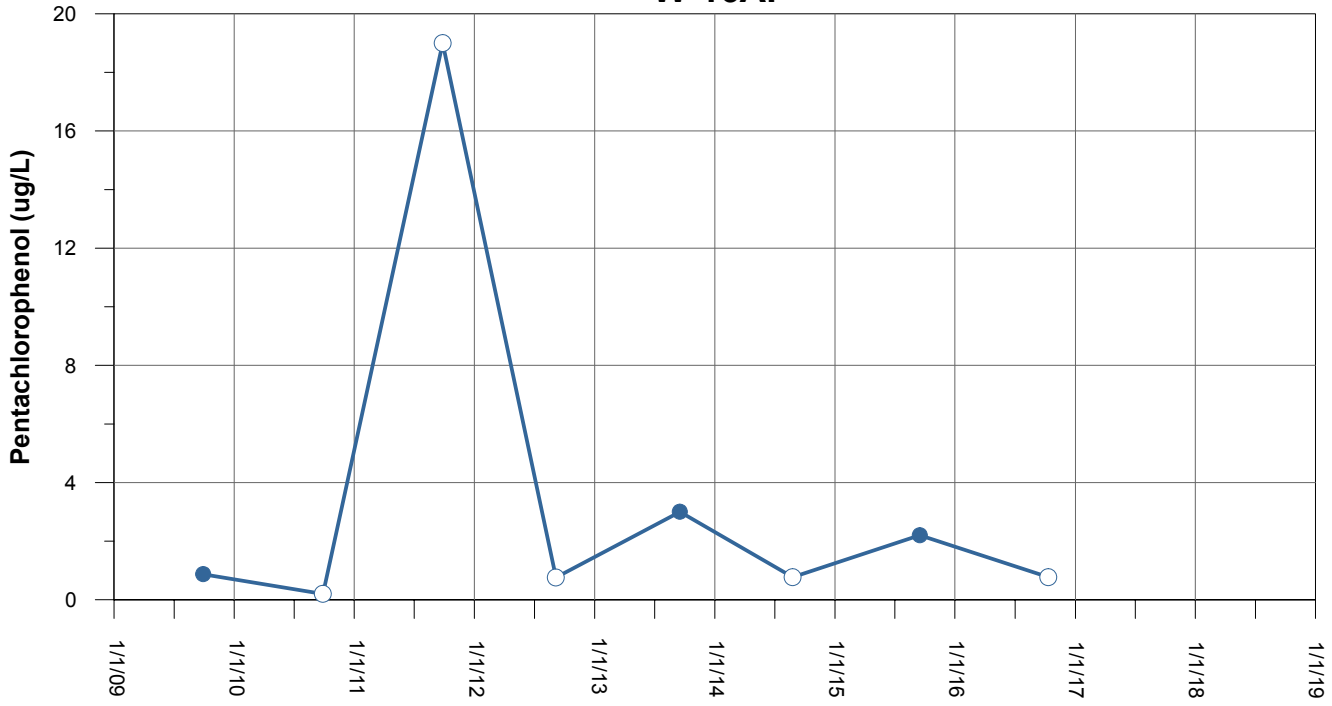
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

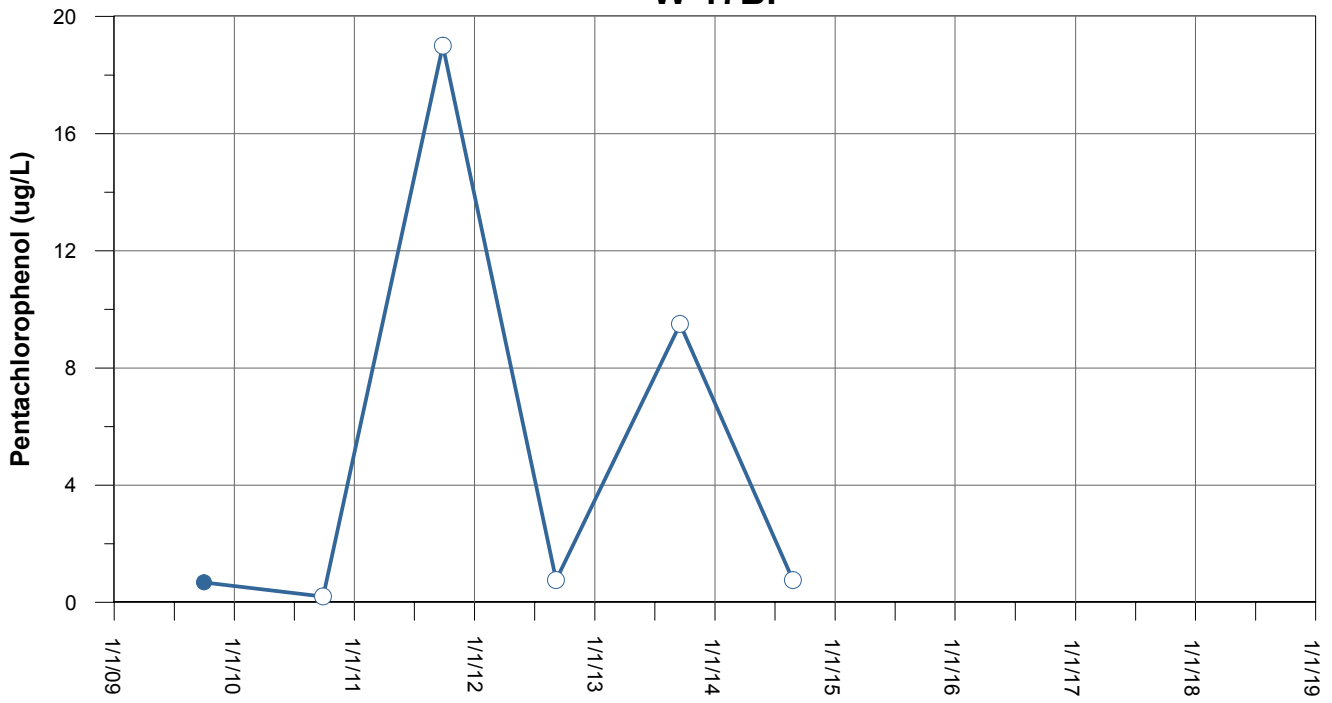
FIGURE C-4
Pentachlorophenol Groundwater Concentrations
in W-13S and W-13I
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-16AI



W-17BI



Legend:

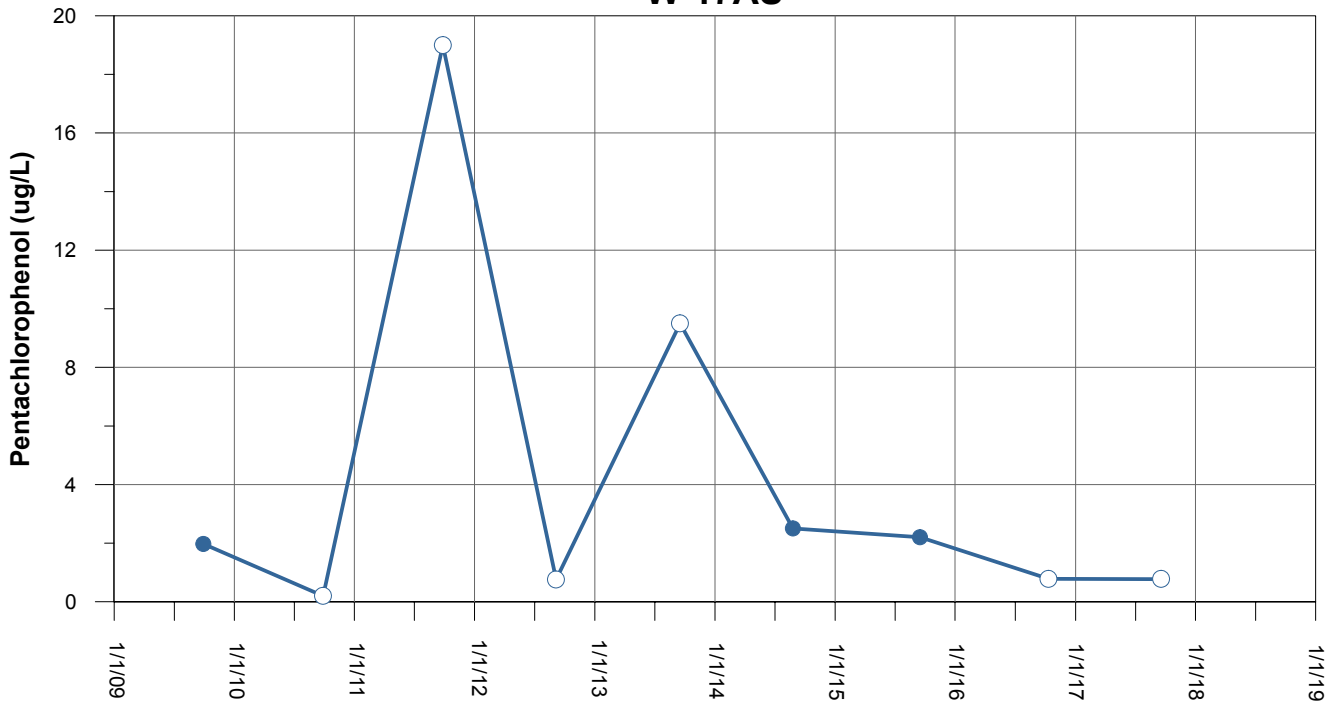
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-5 Pentachlorophenol Groundwater Concentrations in W-16AI and W-17BI

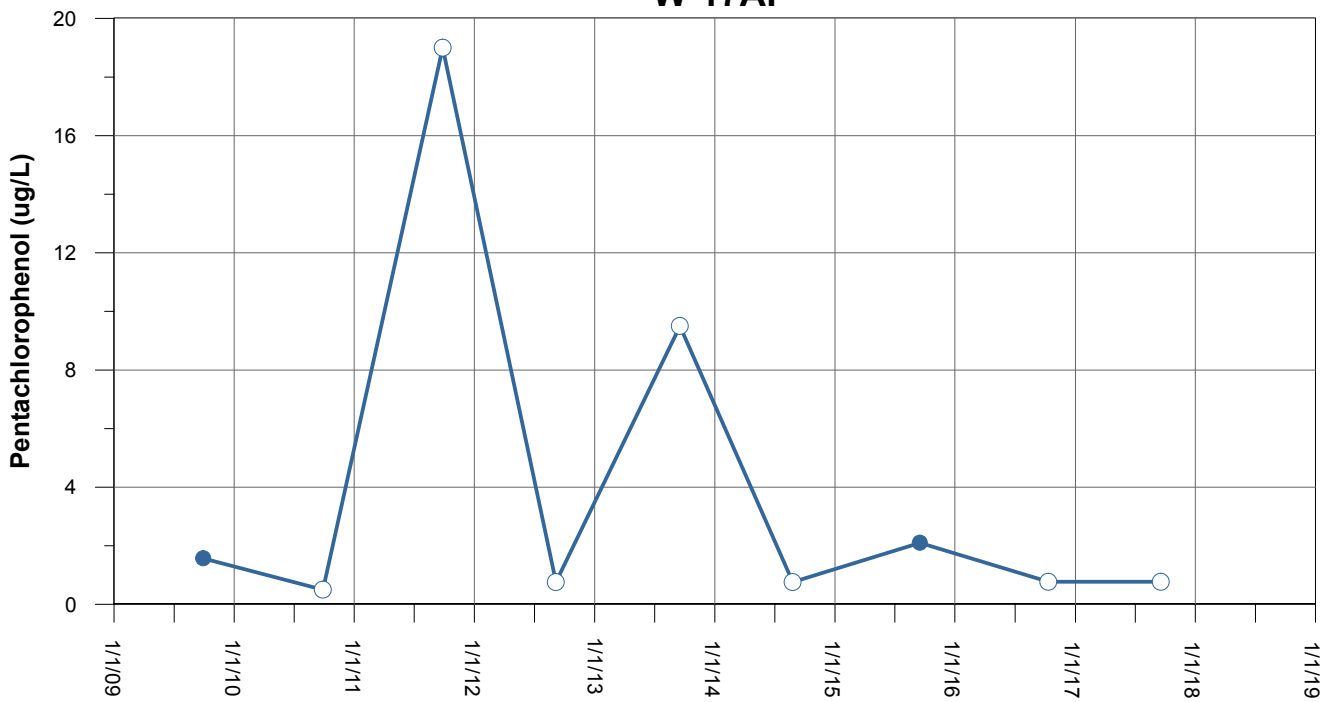
J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:
ug/L = microgram per liter

W-17AS



W-17AI



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:

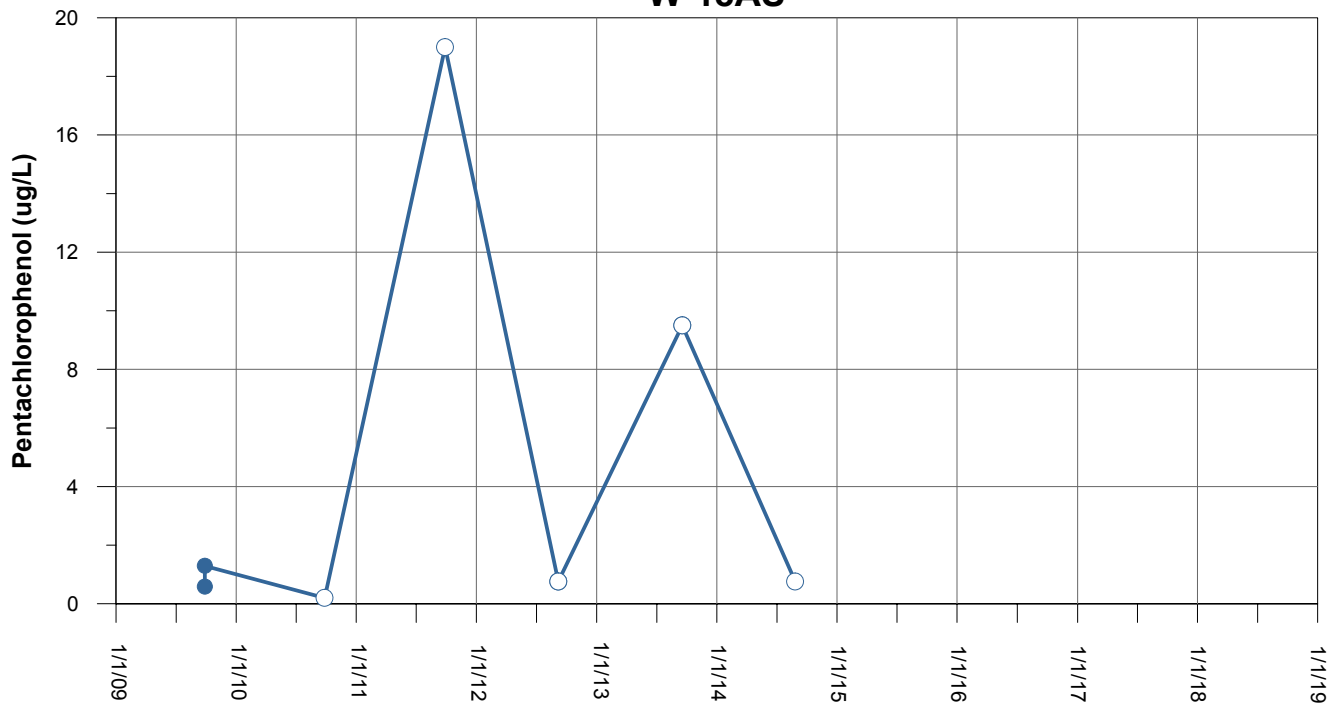
ug/L = microgram per liter

FIGURE C-6 Pentachlorophenol Groundwater Concentrations in W-17AS and W-17AI

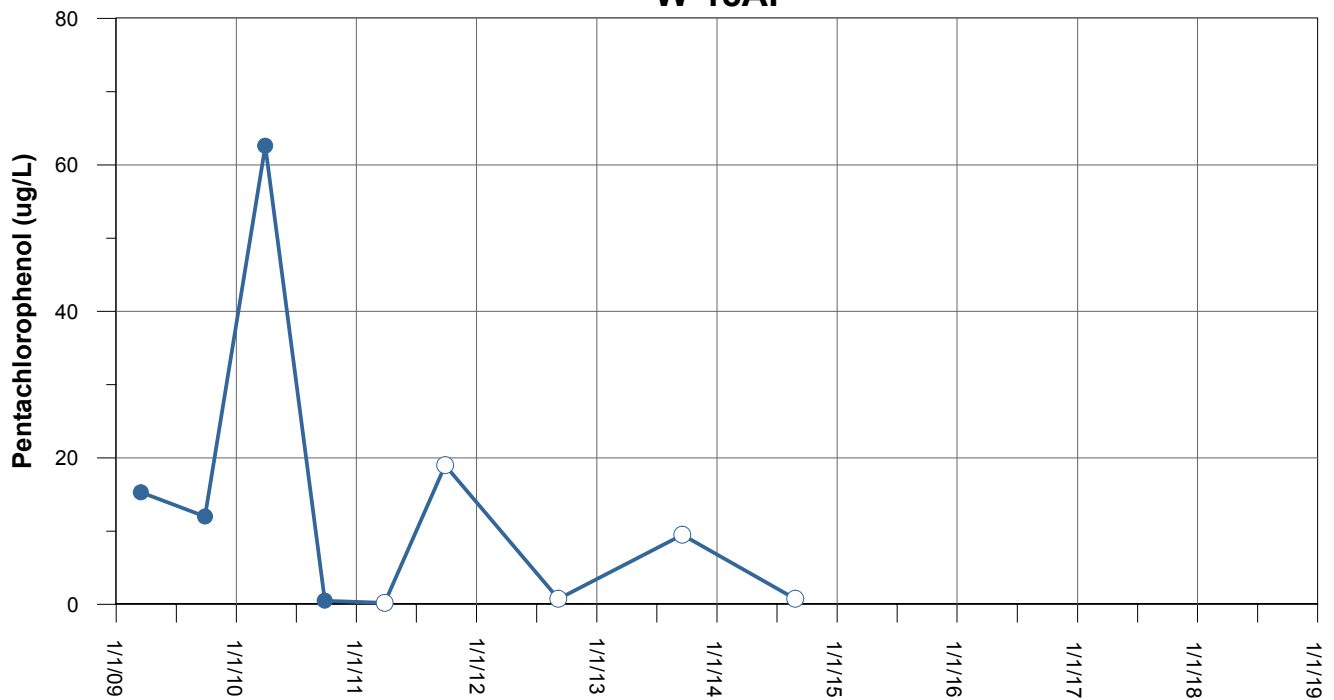
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-18AS



W-18AI



Legend:

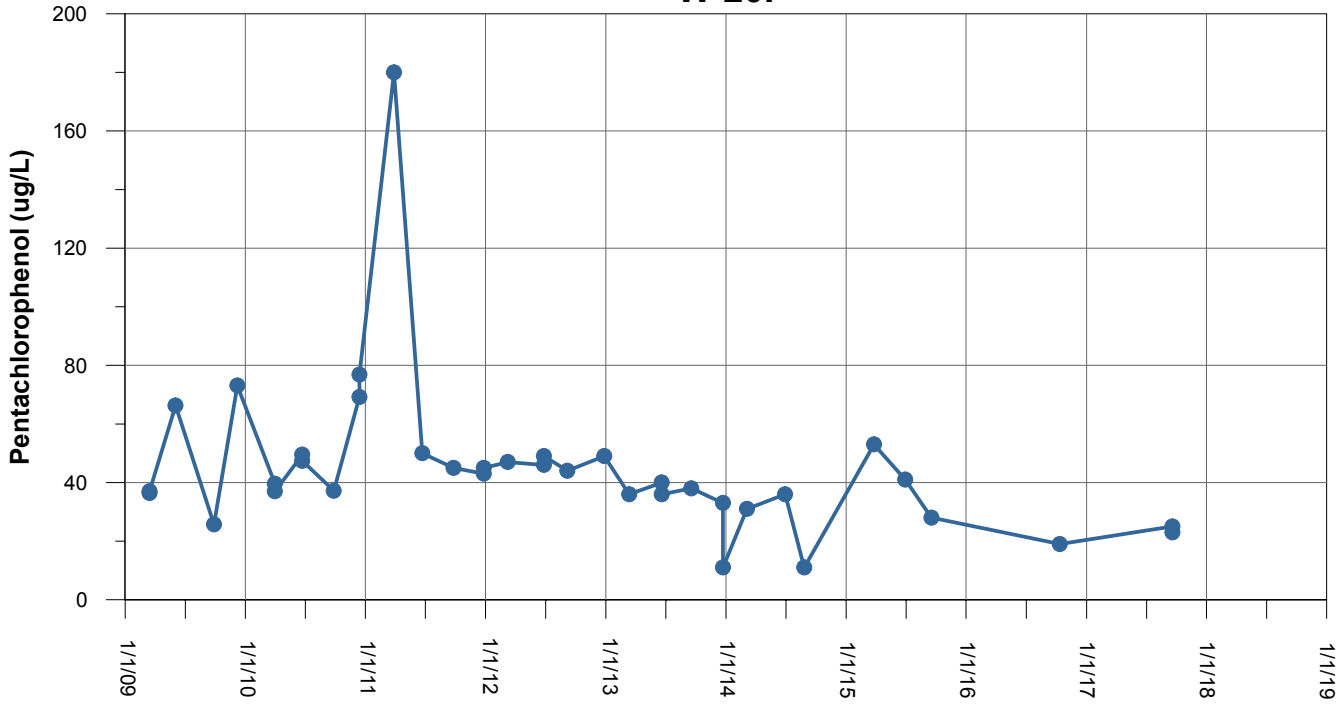
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:

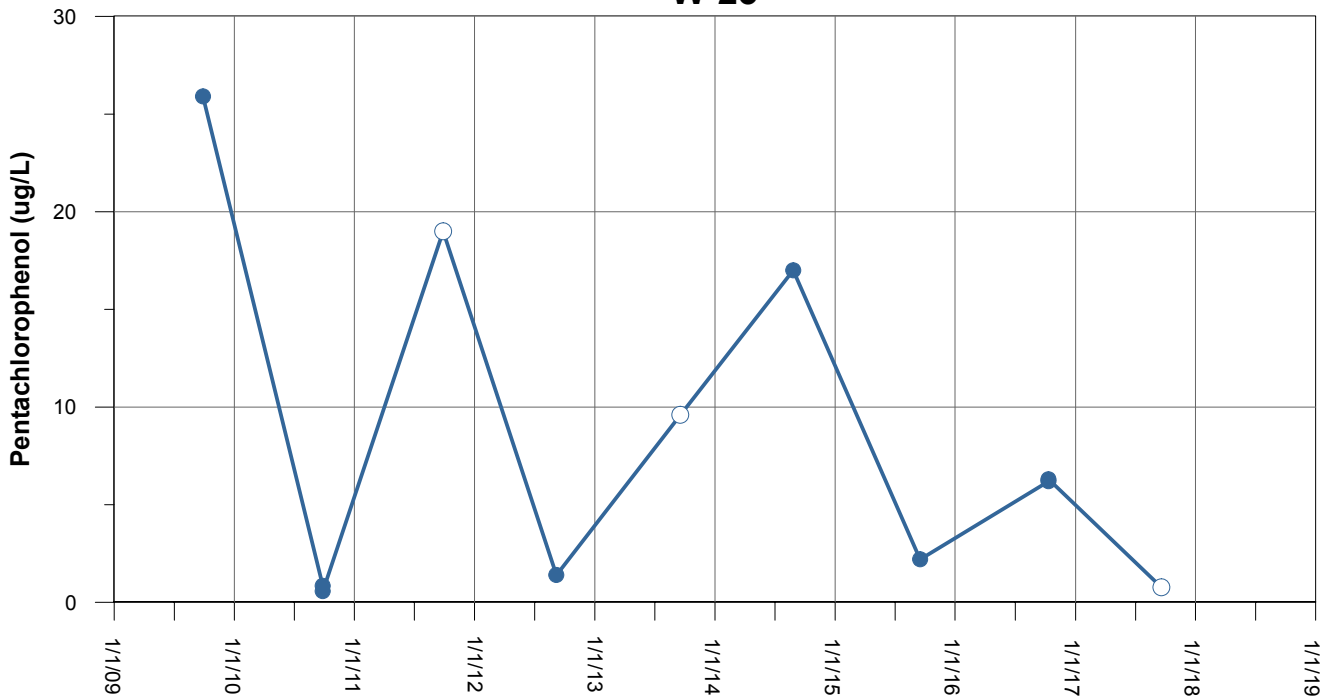
ug/L = microgram per liter

FIGURE C-7
Pentachlorophenol Groundwater Concentrations
in W-18AS and W-18AI
J.H. Baxter Wood Treating Facility
Eugene, Oregon

W-201



W-23



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-8
Pentachlorophenol Groundwater Concentrations
in W-201 and W-23

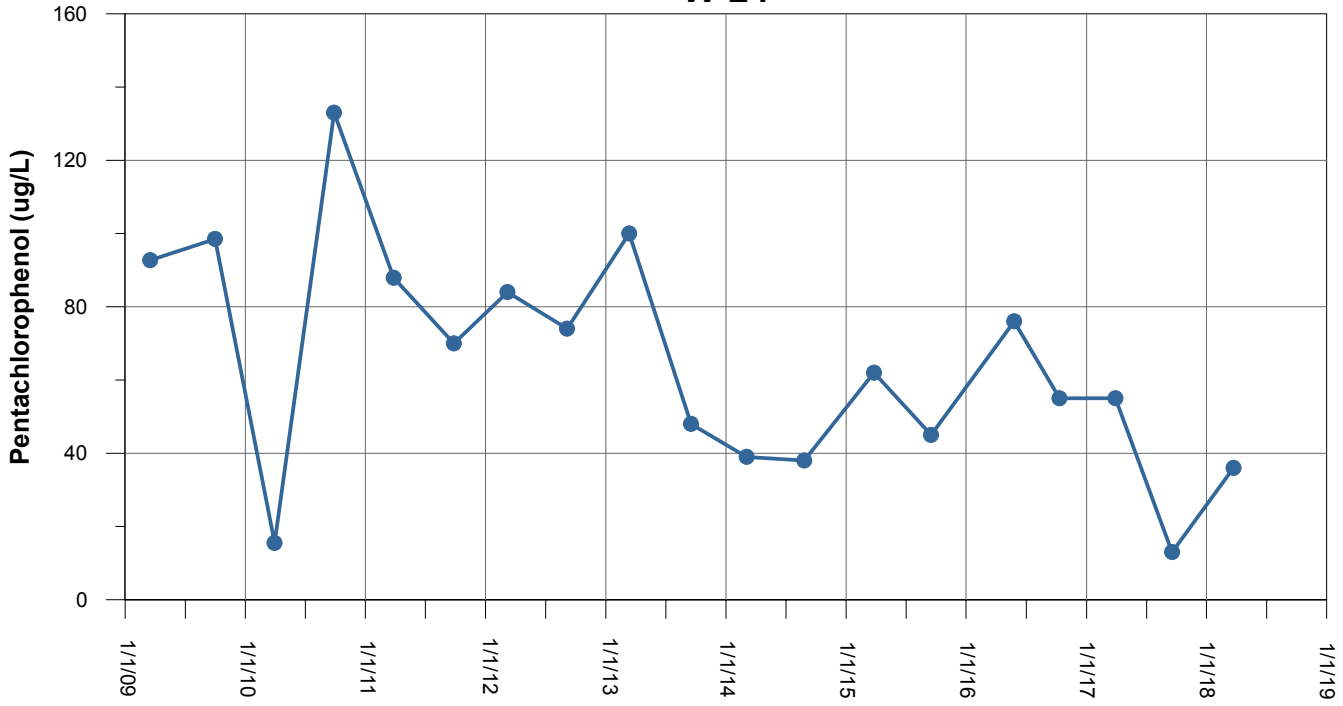
J.H. Baxter Wood Treating Facility
 Eugene, Oregon

Notes:

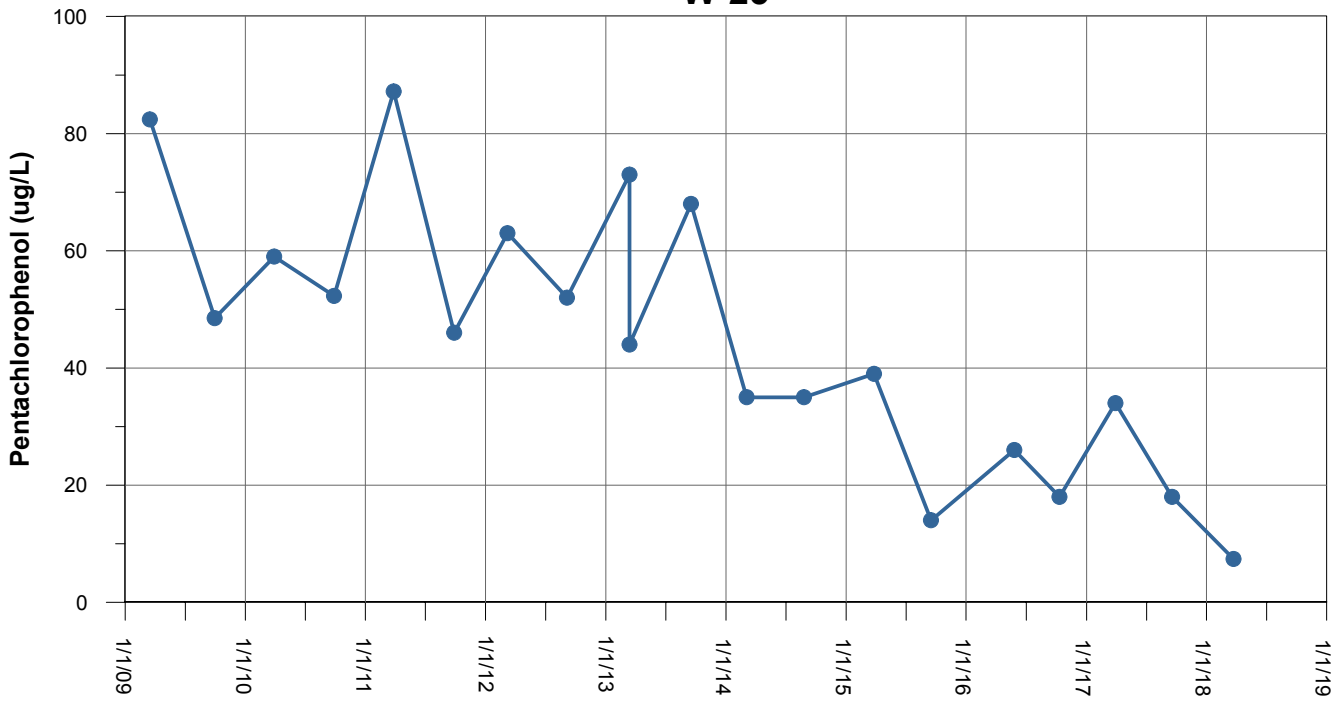
ug/L = microgram per liter



W-24



W-25



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

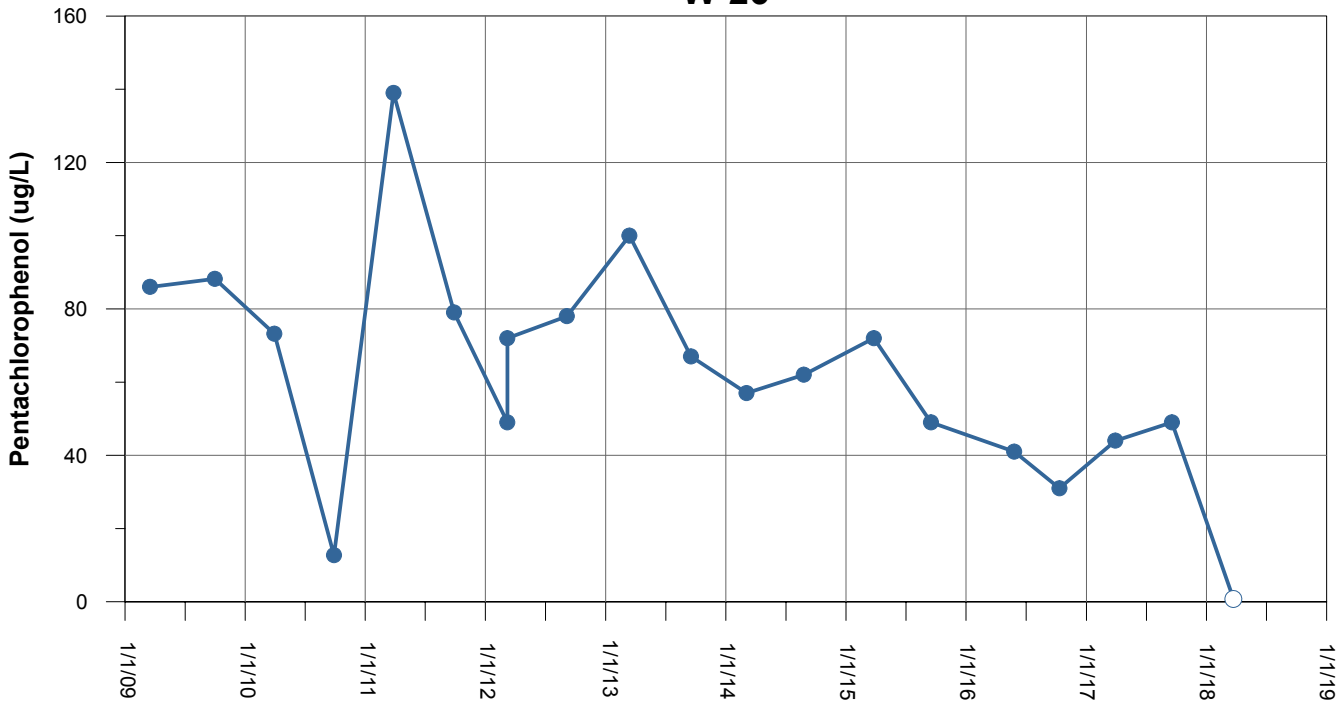
Notes:

ug/L = microgram per liter

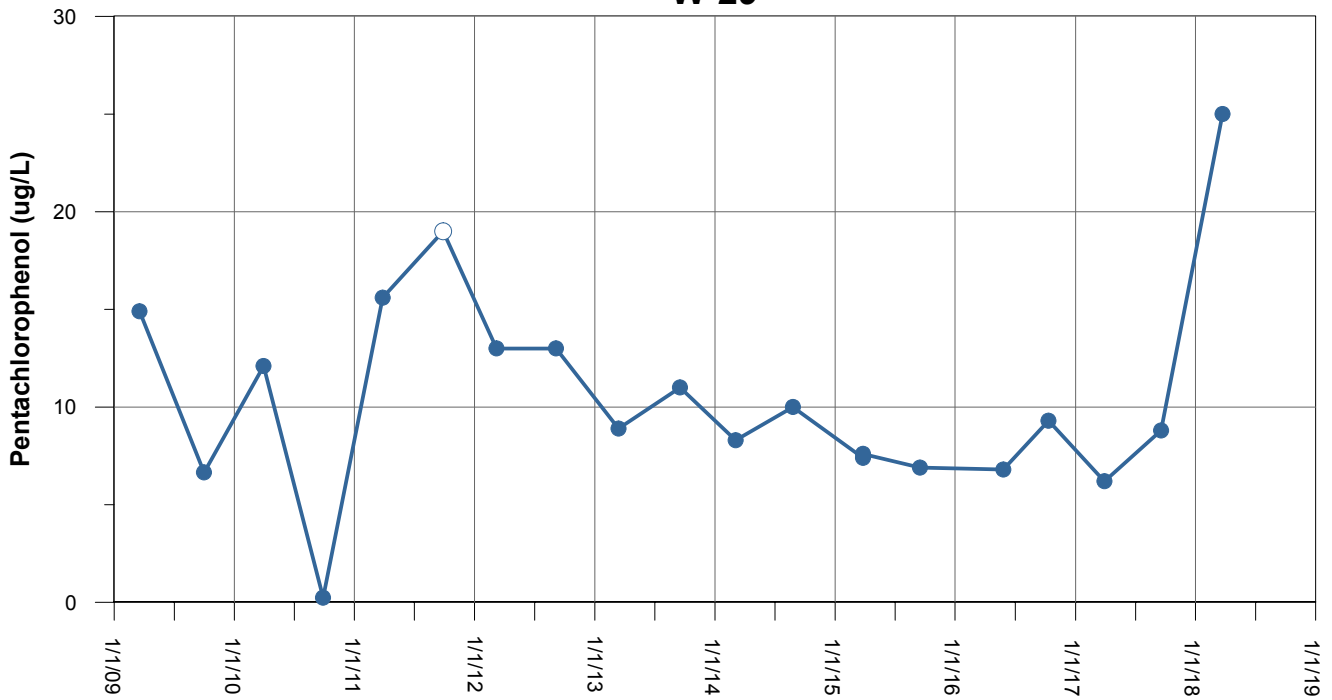
FIGURE C-9
Pentachlorophenol Groundwater Concentrations
in W-24 and W-25
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-26



W-29



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

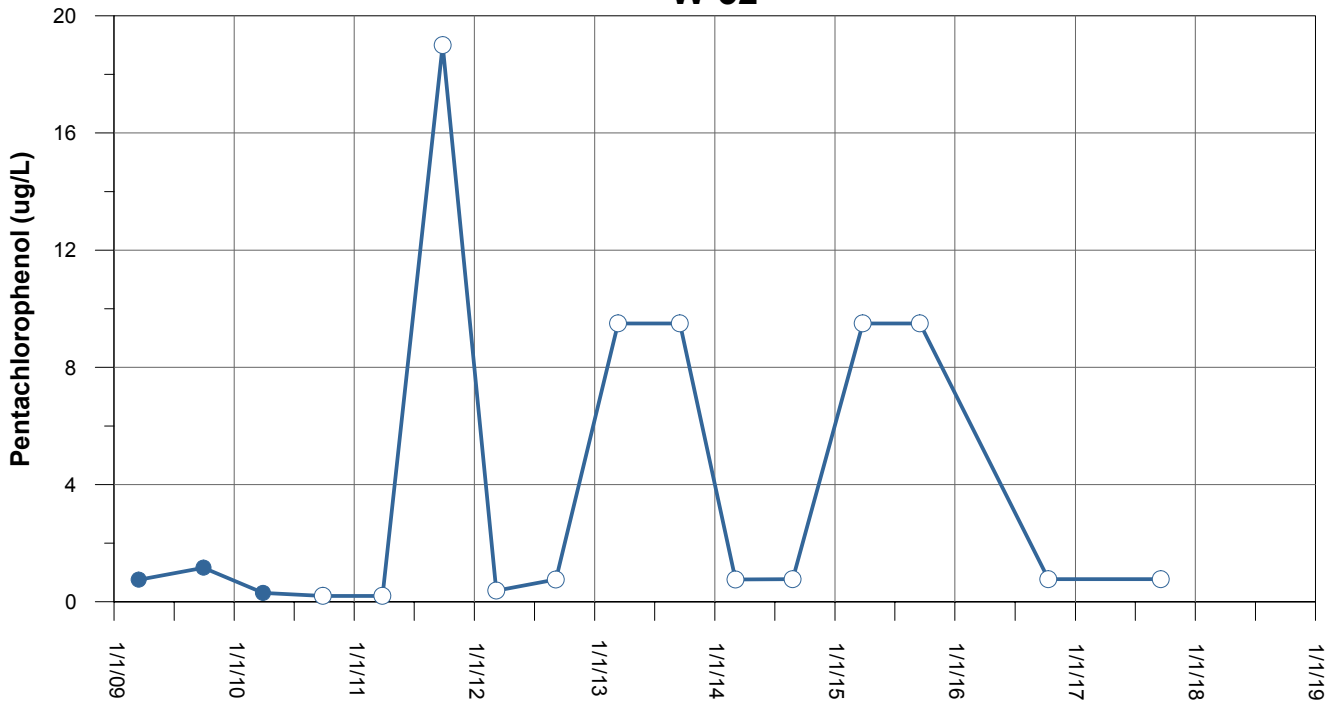
FIGURE C-10 Pentachlorophenol Groundwater Concentrations in W-26 and W-29

J.H. Baxter Wood Treating Facility
Eugene, Oregon

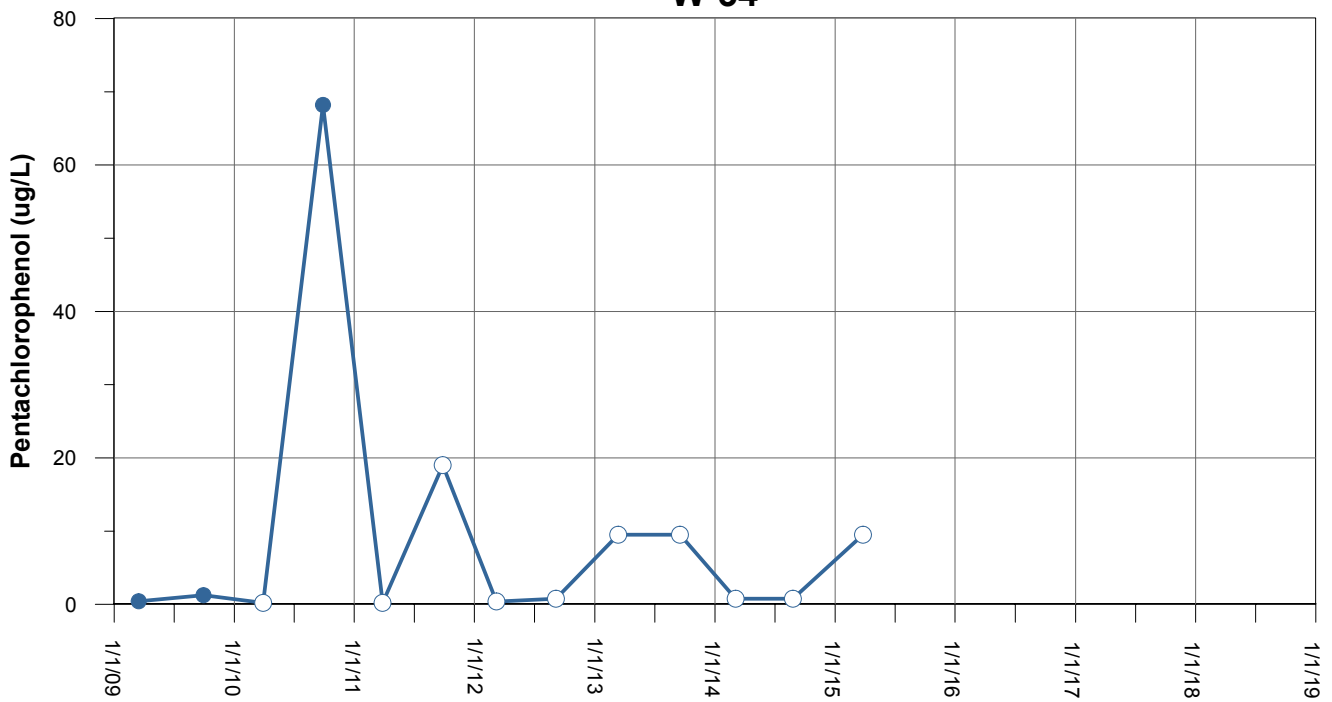
Notes:
ug/L = microgram per liter



W-32



W-34



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:

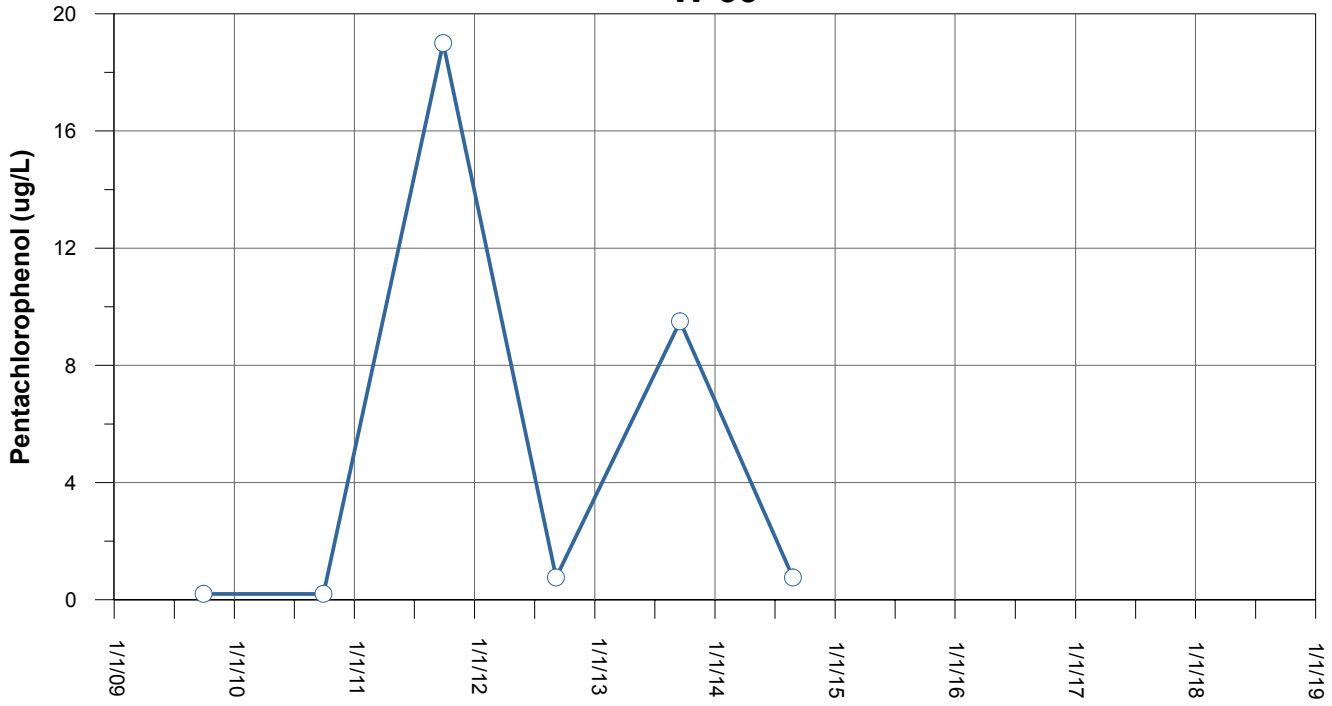
ug/L = microgram per liter

FIGURE C-11 Pentachlorophenol Groundwater Concentrations in W-32 and W-34

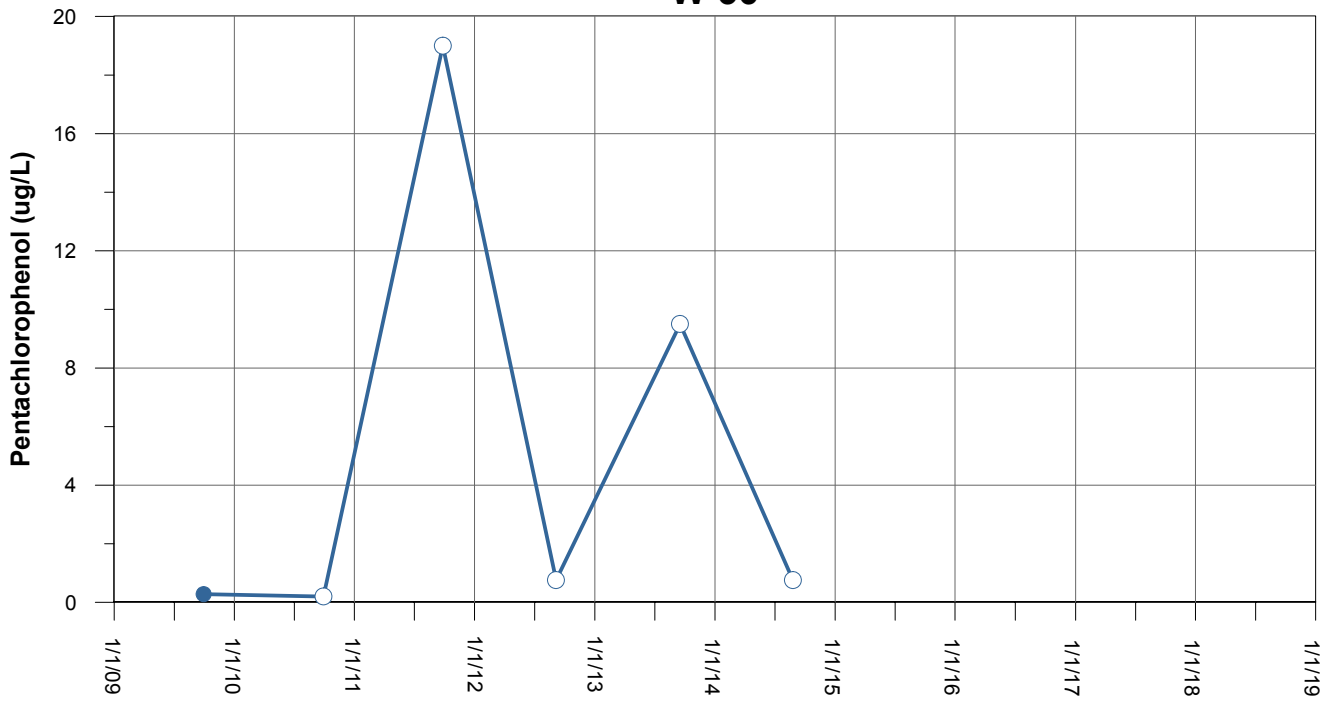
J.H. Baxter Wood Treating Facility
Eugene, Oregon



W-35



W-36



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-12
Pentachlorophenol Groundwater Concentrations
in W-35 and W-36

J.H. Baxter Wood Treating Facility
Eugene, Oregon

Notes:

ug/L = microgram per liter

