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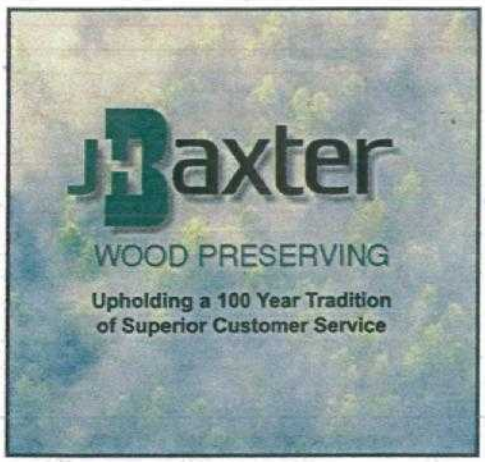
THIRD QUARTER 2014 OPERATIONS AND MONITORING REPORT - REMEDIAL ACTION PILOT STUDY

12-1-2014

Former J.H. Baxter & Co. Wood Treating Facility

Arlington, Washington



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December 2014

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BAXTER

TRENCH REHABILITATION

Ben
425-482-782

— tanks - Trizzle pressure washed
— rust + scale + contam. debris

~~13QFE23~~
Cont trip
Huxley #1214

Dominions
2 lbs of rust + flake
+ wood
drum

Dry sulfurhead
out
Scrapper - dry
to be hazardous cert.
Put in drum
Contam cutting.

replaced as needed. As noted in Section 5.2.2, the LNAPL recovery wells will be checked on a monthly to quarterly schedule.

5.4 SYSTEM MAINTENANCE

Although the Aerotron and LNAPL recovery wells have been designed to provide reliable service, periodic maintenance will be needed for optimal operation. Appropriate maintenance for the mechanical system components, including the pumps, valves, and switches, is of primary importance for reliable operation.

5.4.1 Routine Maintenance

Robust equipment has been chosen for use in this system. As such, minimal required maintenance is expected. The majority of maintenance will probably consist of cleaning the piping and valves, and maintaining the extraction wells.

As noted above the system will be checked regularly during operation. All valves, fittings, and components have been standardized and chosen for easy removal and replacement with minimal downtown. All components have been chosen for compatibility with groundwater constituents and for compatibility with weak acids and/or dispersants that may be needed for removal of scale and biological fouling. In addition, cleanouts have been included in the design to facilitate addition of cleaning solutions and removal of scale and biological buildup. Cleaning will be performed on an as-needed basis, as determined by field observations. Routine maintenance for the Aerotron system is expected to be minimal. Routine maintenance for the LNAPL recovery wells will include removal and replacement of the sorbent socks.

5.4.2 Nonroutine Maintenance

Several components of the Aerotron system may fail and require maintenance to maintain operations. These events are not expected to occur frequently, but may occur due to wear and tear of mechanical equipment caused by continuous operation or by fouling. While fouling can be caused by chemical deposits or biological growth, only biological fouling is considered likely for the Arlington facility. Available water chemistry results indicate generally high-quality groundwater, with low concentrations of the minerals that commonly cause chemical scaling. Likely issues requiring periodic maintenance are described below. EPA will be notified prior to performing nonroutine maintenance pursuant to the AOC.

5.4.2.1 Biological Fouling of the Wells

It is expected that the groundwater extraction wells will recirculate aerated water to the Aerotron infiltration trench over the lifetime of the system. This water will likely be oxygenated and could contain a significant population of microbes. Since the Aerotron is designed to enhance microbial activity in the subsurface, these microbes could eventually build up, clog the extraction wells, and prevent adequate flow to the extraction pumps. If this occurs, a weakly acidic, biodegradable biodispersant approved for use in drinking water supply wells will be used to remove the microbial fouling. In order to perform this maintenance, it will be necessary to shut down the Aerotron and inject the biodispersant manually. A surge block may be used to ensure distribution of the biodispersant into the sand pack. Sufficient contact time must be provided to allow the biodispersant to remove biological growth. The volume of biodispersant required to ensure the solution saturates the entire sand pack will be estimated for each well. The biodispersant will be used in accordance with the manufacturer's recommendations. Following treatment of the extraction wells, they will be redeveloped using the well pumps and a surge block. It is anticipated that treatment of the seven extraction wells with biodispersant would require 1 week to complete.

5.4.2.2 Fouling of Piping

There are two underground lines from each extraction well to the infiltration trench. If the primary line becomes clogged the alternate piping will be used until the primary line is cleaned. The method of cleaning will depend on the nature of the fouling. Cleanout fittings have been included in the piping design to aid in line cleaning; all fittings and valves have been chosen to allow easy removal for cleaning. If cleaning of the lines is necessary, a cleaning plan will be prepared and submitted to EPA prior to cleaning the lines.

5.4.2.3 Biological Fouling, Infiltration Trench

It is possible that the infiltration trench could become fouled due to microbial growth. The most likely site of the fouling would be the interface between the crushed limestone placed in the trench and the natural fill materials. As fouling increases, the water level in the infiltration trench would rise until the high level switch is activated. This would then shut off the groundwater extraction pumps. In the event that fouling plugs the native formation beneath the infiltration trench, it would be necessary to either reduce the recirculation rate or shut the Aerotron system down for maintenance. Due to the use of limestone to adjust the groundwater pH, the acidic biodispersant would likely be ineffective in the infiltration trench; it would probably be necessary to use a biocide to remove the fouling.

If the infiltration trench becomes plugged, the trench would be assessed by collection and analysis of samples for water chemistry and microbial characteristics. Based on the findings from sampling, an appropriate plan to remove the fouling would be prepared and submitted to EPA for approval. After approval, the plan would be implemented. The passive vent piping included in the trench design can be used to facilitate introduction of biocide or biodispersant solutions.

5.4.2.4 Extraction Well Pump Failure

Each of the seven extraction wells is equipped with a submersible centrifugal pump. Since these pumps will be in continuous duty, it is likely that failures will be encountered, especially after about 3 years of service. Therefore, it will likely be necessary to replace the well pumps. Since the same pump has been specified for each extraction well, replacement will be fairly straightforward. If a pump fails, a replacement pump will be ordered and installed. It is expected that replacement pumps can be obtained in no more than 1 to 2 weeks; it is likely that replacement pumps would be in stock in Seattle. If a well must be temporarily shut down for well replacement, the pumping rates from the nearest extraction wells would be increased to offset the lost pumping capacity.

5.4.3 Record Keeping and Reporting

As noted above, an operations log will be maintained to record the results of inspections and maintenance requirements. If maintenance is performed, the nature, time, and results of the maintenance will be recorded in the operations log. System maintenance issues will be reported along with operations monitoring in the quarterly monitoring reports.

5.5 MONITORING PLAN

Monitoring of the Aerotron and LNAPL recovery wells will be performed as described in Section 5.1.2 and in the Performance Monitoring Plan that is being prepared as a separate document.

5.6 OPERATIONS HEALTH AND SAFETY PLAN

Prior to commencing routine operations, an Operations HASP will be prepared specifically to address operations and anticipated maintenance work. The Operations HASP will include all requirements of the wood treating facility and any additional requirements posed by the possible exposure to site contaminants and the Aerotron system/LNAPL recovery wells. A copy of the plan will accompany personnel on site. Nonroutine maintenance will be reviewed

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THIRD QUARTER 2014 OPERATIONS AND MONITORING REPORT
REMEDIAL ACTION PILOT STUDY

Former J.H. Baxter & Co. Wood Treating Facility
Arlington, Washington

1.0 INTRODUCTION

The J.H. Baxter Project Team, consisting of J.H. Baxter & Co. (Baxter) and AMEC Environment & Infrastructure, Inc. (AMEC) have prepared this Third Quarter 2014 Operations and Monitoring Report - Remedial Action Pilot Study (O&M Report) for the Stella-Jones (formerly Baxter) Arlington, Washington, wood treating facility (Arlington facility, facility, or site), located at 6520 188th Street NE (Figure 1). This report discusses activities completed during the period from July 1 through September 30, 2014.

The Remedial Action Pilot Study is considered part of the ongoing Corrective Measures Study (CMS), which is being implemented pursuant to Paragraph 53 of the United States Environmental Protection Agency (EPA) Administrative Order on Consent (AOC) dated April 30, 2001 (EPA, 2001). All CMS-related activities were conducted consistent with guidance provided by EPA in the Resource Conservation and Recovery Act (RCRA) Corrective Action Plan (Final), dated May 1994 (EPA, 1994), the Corrective Action Advance Notice of Proposed Rulemaking (EPA, 1996), and the AOC.

This O&M Report is being prepared in accordance with the Remedial Action Pilot Study Work Plan (Work Plan) and the Remedial Action Pilot Study Performance Monitoring Plan (PMP), which were submitted to the EPA in September 2007.

1.1 DOCUMENT OVERVIEW

This O&M Report includes the following main components:

- **Main Text:** This section provides an overview of the operations and maintenance of the system, groundwater elevation data, and groundwater sampling data collected during the Third Quarter of 2014.
- **Tables:** Tables are included for groundwater elevations (Table 1), depth to groundwater (Table 2), vertical groundwater gradients (Table 3), groundwater analytical data (Tables 4A, 4B, 4C, 4D, and 5), and nonaqueous-phase liquid (NAPL) recovery (Table 6).

- **Figures:** Figures are included showing the Site location and monitoring network (Figures 1 and 2), groundwater elevation information (Figures 3 through 5), vertical groundwater gradient trends (Figure 6), polychlorinated pentachlorophenol (PCP) concentrations in groundwater (Figures 7 through 39), and polyaromatic hydrocarbons (PAHs) in groundwater (Figure 40).
- **Appendix A:** ***Time Series Plots*** - PCP and total PAHs in Groundwater - This section provides time series plots showing PCP and PAHs in groundwater for each well.
- **Appendix B:** ***Laboratory Reports*** - Groundwater sampling results are provided in this appendix.
- **Appendix C:** ***Quality Assurance Review*** - This document provides an assessment of the laboratory data collected and presented in this report.
- **Appendix D:** ***Other Figures*** - This appendix includes Groundwater Elevation Cross-sections and Hydrograph figures.

2.0 OPERATIONS, MAINTENANCE, AND MONITORING

Implementation of the Remedial Action Pilot Test at the former Baxter Arlington facility included installation of a groundwater extraction and re-infiltration field northwest of the source area to treat affected groundwater and installation of a network of monitoring wells and piezometers to monitor the remediation progress. Installation was completed on January 30, 2008, and the system was commissioned on January 31, 2008.

The objective of the Remedial Action Pilot Test is to create conditions favorable for biodegradation of PCP in groundwater by increasing groundwater pH. The system consists of seven extraction wells in a chevron pattern downgradient of an infiltration gallery, also in a chevron pattern (Figure 2). The infiltration gallery is backfilled with crushed limestone. Groundwater extracted through the extraction wells is pumped into the infiltration gallery. The groundwater then comes into contact with the limestone during infiltration, thereby increasing pH. Sorbent socks installed in five monitoring wells absorb light nonaqueous-phase liquid (LNAPL).

The requirements for monitoring and maintenance are specified in the Work Plan. Quarterly groundwater level measurements, site visits, and ongoing maintenance are performed as part of the operations and monitoring program for the Remedial Action Pilot Study. Figure 2 shows the locations of the infiltration trench, extraction wells, piping, and monitoring wells.

In July 2010, system monitoring transitioned from monthly to following approval from the EPA (EPA, 2010). Routine monitoring tasks consist of recording quarterly groundwater level readings from the monitoring well network; inspecting the LNAPL recovery sorbent socks and replacing the

saturated socks; collecting a composite groundwater sample from the system extraction wells; and analyzing the composite groundwater sample for PCP and several degradation products.

During the fourth quarter of 2010, five new monitoring wells were added to the network (MW-38 through MW-42). In October 2010, another new monitoring network well (MW-43) was installed. Depth to water was measured at all monitoring network wells during quarterly O&M activities (Figure 2). These newly installed monitoring wells provide additional groundwater elevation data in areas northwest of the Main Treatment Area. As part of quarterly O&M reporting, elevation data from these new wells have been included in the development of facility groundwater contour maps and is used to evaluate vertical groundwater gradients in areas hydraulically downgradient of facility extraction wells.

2.1 OPERATIONS AND MAINTENANCE

At the beginning of the third quarter, only extraction well EW-4 was operating. EW-2 was reset on July 29, 2014. EW-2 and EW-4 remained operational throughout the rest of the third quarter, and were the source of the extraction well composite sample.

2.2 GROUNDWATER LEVEL MEASUREMENTS

The Third Quarter 2014 groundwater monitoring event was conducted from September 28 to 29, 2014. Depth-to-groundwater measurements indicated a decrease in groundwater elevations for nearly all facility monitoring wells that were measured in the third quarter. Table 1 presents a summary of groundwater elevations from August 2013 through September 2014; Table 2 provides the groundwater elevations for the same time period along with the depth-to-groundwater measurements, the total changes in groundwater elevations since installation of the pilot system (excluding MW-38 through MW-43), as well as incremental changes since the previous measurement.

Figure 4 presents the September 2014 groundwater elevation contour map. Figure 5 presents a contour map of groundwater elevation differentials between the baseline elevations (January 28, 2008, prior to the system startup) and elevations measured in September 2014. The differential groundwater elevation contour map was generated by subtracting groundwater elevation measured during the monitoring event from the baseline groundwater elevation at each well location. An interpolation scheme (kriging) was used to generate the contours based on the differential value at each well.

Appendix D provides additional detailed information related to the system's operation. Appendix D, Figures 1 and 2 show cross-sections of measured and baseline groundwater elevations along two transects for the monitoring event; the transect locations are shown on Figure 23 in Appendix D. The cross sections also provide evidence of the direction of vertical hydraulic gradients within well pairs and well triplets.

Wells were assigned one of three different well classifications developed to evaluate vertical gradients at each well cluster:

- Shallow wells - wells with bottom-of-screen elevations higher than 90 feet (ft) above mean sea level ([msl]; North American Vertical Datum of 1988 [NAVD 88]);
- Intermediate wells - wells with bottom-of-screen elevations between 70 and 90 ft msl; and
- Deep wells - wells with bottom-of-screen elevations below 70 ft msl.

A well classification approach using depth below ground surface (bgs) was not used.

The cross section on Appendix D, Figure 2 shows downward vertical gradient at the MW-25/MW-32 well pair, which is consistent with historical data trends. Minimal vertical head gradients are observed immediately downgradient of the infiltration gallery (MW-3/MW-33) and at the MW-29/MW-34/MW-38 well triplet, which indicates that the gradient observed at MW-25/MW-32 dissipates rapidly in the direction of groundwater flow. Downward vertical gradients were observed at well pairs located downgradient of the EW-1/EW-4 extraction well line (MW-15/MW-40 and MW-37/MW-41). Vertical groundwater gradients for facility well pairs are summarized in Table 3.

Figure 6 provides a trend plot of vertical gradients for six well pairs, where a positive gradient indicates downward groundwater flow and a negative gradient indicates upward flow. The magnitude and direction of vertical gradients at facility well pairs and triplets remained consistent with those observed during the previous quarter, with the exception of well pairs MW-3/MW-33 which experiences a minor gradient and shows a reversal in direction for September 2014 (Figure 6; Table 3).

Appendix D, figures 3 through 22 present hydrographs for each well in the groundwater monitoring network, as well as a bar graph of daily precipitation for the corresponding time period. Daily precipitation data are acquired on a quarterly basis from the National Climatic Data Center (NCDC).

Precipitation data from previous quarters are presented along with the well hydrographs. The NCDC precipitation data set provides cumulative estimates of rainfall and snowmelt; snowfall is not included in the precipitation data. Average daily precipitation for the interval between groundwater monitoring events is shown as a line graph overlying the bar graph. If rainfall totals are missing from the NCDC data set, the omitted data points are treated as zero values on the hydrographs and are omitted in the calculation of the monthly average.

The hydrographs indicate a correlation between groundwater elevation and precipitation. For most groundwater monitoring wells that were measured in the second quarter, the groundwater elevation decreased between the second quarter and the third quarter of 2014. As during previous quarters, the observed fluctuations in groundwater elevations are likely due to variation in precipitation and groundwater recharge during the reporting period.

2.3 GROUNDWATER MONITORING AND WATER QUALITY

In addition to collecting the quarterly groundwater elevation data, a groundwater sampling event was conducted during the Third Quarter of 2014. The sampling event was conducted between September 28 and 29, 2014. The sampling event included existing "Site Investigation" wells and the "PMP" wells installed in late 2007, the five wells installed in July 2010 (MW-38 through MW-42), and the well installed in October 2010 (MW-43).

The following wells were sampled as part of the monitoring event:

- **September 28-29, 2014 Event** - 31 wells: BXS-1, BXS-2, HCMW-7, MW-2, MW-3, MW-15 through MW-18, and MW-22 through MW-43 (Figure 2).

Groundwater samples were collected in accordance with the 2005 Site Investigation Work Plan, using low-flow methods and either a dedicated submersible bladder pump (Site Investigation wells) or a portable submersible pump that was decontaminated between each well sampling (PMP wells). Sampling, equipment decontamination, and sample custody procedures were in accordance with previous sampling events conducted at the site. Field groundwater sampling activities were performed by Baxter personnel. Laboratory analyses were completed by ALS Environmental (ALS) of Kelso, Washington (see Appendix C). Laboratory analyses performed by ALS included PCP by EPA Method 8151 for all sampled wells, PAHs by EPA Method 8270C on select groundwater samples, and the extraction well composite sample was analyzed for PCP and degradation products using EPA Method 8151.

PCP results for the September 2014 sampling event, as well as sampling conducted since April 2012 are shown on Figure 7 and summarized in Table 4A. PCP isopleth maps for quarterly

monitoring events since January 2008 through September 2014 are provided in Figures 8 through 34 for the shallow zone. Figures 35 through 38 represent PCP isopleths for deeper zones downgradient of the Main Treatment Area from February 2012 through June 2014. Figure 39 provides a cross section along the longitudinal transect of the plume with PCP concentration observed during June 2014. Total PAH results are shown on Figure 40 and summarized in Table 4A. Time series plots showing PCP and total PAHs for each well are provided in Appendix A.

PCP concentrations in groundwater monitoring wells have generally been consistent with previous monitoring events, with a few exceptions as follows:

- MW-22: PCP concentrations in MW-22 indicated an increase from the second quarter 2010, and peaked (at approximately 300 micrograms per liter [µg/L]) in November 2012. Concentrations subsequently decreased to 73 µg/L during June 2014, and increased to 140 µg/L in September 2014. These variations are possibly due to fluctuation in the extent of the groundwater plume near the side of the plume.
- MW-28: PCP concentrations in MW-28 began increasing in 2011. In fourth quarter 2013, concentrations were 85 µg/L. There has been a consistent trend of high concentrations in first and second quarters, and lower concentrations in third quarters. PCP concentrations in this well decreased to 13 µg/L in third quarter 2014. This well is located west of the Main Treatment Area, and may indicate fluctuations in the geometry of the plume near the source area.
- MW-40 and MW-41: PCP concentrations in MW-40 and MW-41 have fluctuated over the last three years, ranging from approximately 150 µg/L to 560 µg/L in MW-40, and 49 µg/L to 340 µg/L in MW-41. The concentration changes may be partially related to seasonal water level variations, as well as a decrease in effectiveness of the recirculation system and capture efficiency.

Why?

In addition to collection of groundwater samples from the monitoring well network, a composite groundwater sample was prepared by the laboratory from discrete samples collected from extraction wells EW-2 and EW-4 during the monitoring event. The laboratory prepared the composite sample by combining equal amounts of each sample. The composite samples from the extraction wells were analyzed for PCP and, since March 2009, select PCP degradation products. The analytical results for the extraction well sample collected in September 2014 are shown in Table 4C. During this reporting period, the PCP concentration was measured at 790 µg/L, up from 51 µg/L observed in the previous quarter's composite sample. Total tetrachlorophenols were detected at a concentration of 31 µg/L. PCP degradation products 2,4,5-trichlorophenol and 2,4,6-trichlorophenol were below method reporting limits.

2.4 LNAPL RECOVERY

The sorbent socks in the five recovery wells were inspected on September 29, 2014, and the sock in MW-12 was replaced. A total mass of 0.84 pounds of LNAPL was removed from recovery well MW-12. The amount of LNAPL removed was determined by subtracting the mass of an unused sock from the mass of the spent sock using a laboratory scale. The socks in recovery wells MW-13, MW-19, MW-20, and MW-21 did not require replacement. Since implementation of the pilot study, the socks in these recovery wells have become saturated with LNAPL less frequently than the sock in MW-12.

The manufacturer's information indicates that each sock is capable of absorbing 2 pounds of product. Baxter coordinates with Stella-Jones (the current operator of the wood-treating facility) to have the spent socks shipped off-site along with waste produced by Stella-Jones as part of facility operations

2.5 QUALITY ASSURANCE AND QUALITY CONTROL

Level III data validation was conducted on 31 groundwater samples, 1 extraction well sample, 2 field duplicates, and 1 rinsate blank collected during the third quarter 2014. The analyses were performed by ALS and validation was performed by AMEC. All results are of acceptable quality and useable for their intended purpose, as documented in the quality assurance review included as Appendix C.

2.6 ACTIVITIES PLANNED FOR 2014

Groundwater monitoring activities will continue through the remainder of 2014, in accordance with the PMP. These activities include quarterly groundwater elevation monitoring and quarterly water quality monitoring.

We appreciate the opportunity to serve you on this project. If you have any questions or desire further information, please feel free to contact us at (503) 639-3400.

Sincerely,

AMEC Environment and Infrastructure, Inc.

Caprielle Larsen
Environmental Chemist

Reviewed by:

J. Stephen Barnett, LHG
Senior Geologist

CL/jm

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LIMITATIONS

This report was prepared exclusively for J.H Baxter & Co. and the United States Environmental Protection Agency (EPA) by AMEC Environment & Infrastructure, Inc. (AMEC). The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions, and qualifications set forth in this report. This Third Quarter 2014 Operations and Monitoring Report - Remedial Action Pilot Study is intended to be used by J.H. Baxter & Co. and the EPA for the Former Wood Treating Facility in Arlington, Washington only. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

TABLES

TABLE 1
Groundwater Elevation Summary
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Well Identification	Northing	Easting	Ground Surface Elevation (feet)	Groundwater Elevations (feet)[1]					
				Baseline 1/28/08[2]	8/25/13	12/2/13	3/16/14	6/2/14	9/29/14
BXS-1	427577.0	1320372.8	142.32	--	109.90	107.13	108.75	111.20	107.46
BXS-2	427429.1	1320176.6	141.09	106.63	112.14	109.20	120.75	113.09	109.49
BXS-3	427202.9	1320143.8	141.73	109.82	115.42	106.55	114.07	116.36	112.47
BXS-4	426556.4	1320865.9	143.05	132.10	128.30	129.82	131.85	131.16	128.82
HC-MW-5	427010.1	1320692.3	143.94	120.42	[6]	116.74	[6]	[6]	-
HC-MW-6	427887.2	1320815.7	146.69	106.84	[5]	[5]	[5]	[5]	-
HC-MW-7	428230.4	1320337.6	145.01	102.67	106.93	104.08	105.58	108.10	104.42
MW-1	427352.2	1320826.9	146.21	124.33	121.67	120.29	[7]	[7]	118.90
MW-2	428166.9	1320647.4	144.69	103.68	107.71	104.99	106.76	109.25	105.36
MW-3	427560.7	1320596.2	143.92	106.87	110.48	107.62	109.57	111.78	107.98
MW-4	425935.6	1321013.3	143.02	135.54	131.76	133.77	[8]	133.31	133.64
MW-10	427175.1	1320566.0	143.30	114.90	116.56	113.58	[8]	118.39	113.06
MW-11	427398.1	1321001.0	146.46	125.74	123.06	122.81	[7]	[7]	-
MW-14	425602.6	1320388.9	139.88	119.98	119.69	119.03	[8]	122.75	118.10
MW-15	427860.0	1320310.6	142.78	104.72	108.89	106.09	107.69	110.07	106.52
MW-16	428006.8	1320325.6	143.37	103.91	108.17	105.26	106.91	109.30	105.80
MW-17	427863.6	1320173.9	142.17	104.47	108.75	105.88	107.30	109.85	106.30
MW-18	428312.7	1320075.7	142.79	102.05	106.48	103.67	105.05	107.49	104.05
MW-22	427395.3	1320573.5	143.13	108.72	113.06	110.14	112.29	113.90	110.10
MW-23	427500.0	1320578.2	143.47	107.50	111.54	108.83	110.86	112.83	108.74
MW-24	427563.9	1320645.1	144.47	107.02	110.58	107.73	109.61	111.98	107.98
MW-25	427492.9	1320682.0	145.45	109.06	109.47	111.35	114.13	115.52	110.48
MW-26	427601.0	1320773.0	145.13	107.48	110.78	108.00	110.00	112.35	108.27
MW-27	427677.9	1320702.8	144.62	107.01	110.48	107.75	109.57	111.99	108.00
MW-28	427502.3	1320488.8	143.02	107.01	111.04	108.22	110.72	112.32	108.35
MW-29	427637.7	1320503.0	142.85	106.33	109.97	107.14	108.91	111.46	107.69
MW-30	427836.7	1320483.2	142.64	105.47	109.45	106.59	107.89	110.72	106.98
MW-31	427715.8	1320294.0	141.15	105.23	109.30	106.50	108.54	110.46	106.95
MW-32	427493.5	1320670.2	145.27	107.36	110.76	108.01	110.01	112.37	108.35
MW-33	427577.4	1320602.0	143.76	106.87	110.45	107.69	109.46	111.86	107.94
MW-34	427647.7	1320498.6	143.02	106.29	109.95	107.15	108.87	111.29	107.66
MW-35	427726.8	1320608.7	144.34	106.36	110.03	107.32	109.46	111.42	107.64
MW-36	427676.1	1320399.4	141.57	105.60	109.58	106.84	108.43	110.84	107.35

TABLE 1
Groundwater Elevation Summary
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Well Identification	Northing	Easting	Ground Surface Elevation (feet)	Groundwater Elevations (feet)[1]					
				Baseline 1/28/08[2]	8/25/13	12/2/13	3/16/14	6/2/14	9/29/14
MW-37	427969.4	1320251.9	142.37	104.16	108.21	105.56	107.02	109.46	105.92
MW-38[3]	427653.6	1320491.4	143.36	NA	109.92	107.12	108.86	111.28	107.58
MW-39[3]	427993.1	1320148.9	142.73	NA	107.85	105.07	106.55	96.94	105.44
MW-40[3]	427859.5	1320316.6	142.56	NA	108.63	105.62	107.10	109.54	105.94
MW-41[3]	427968.1	1320255.0	142.33	NA	108.09	105.26	106.68	109.20	105.66
MW-42[3]	428319.7	1320080.9	142.89	NA	106.35	103.68	104.93	107.35	103.83
MW-43[4]	428757.5	1319841.1	141.91	NA	103.77	101.01	101.96	104.32	101.25

Notes

1. Groundwater elevations in feet specified relative to North American Vertical Datum of 1988 (NAVD88).
2. Elevations indicated for MW-23 and MW-37 on 1/28/2008 are raised by 1 foot from values recorded in the field due to suspected error in field recording.
3. Monitoring wells MW-38 through MW-42 were installed in July 2010.
4. Monitoring well MW-43 was installed in October 2010.
5. HCMW-6 depth to water was not measured after the 1st Quarter 2013.
6. HCMW-5 depth to water was not measured in the 3rd Quarter 2013 or after the 4th Quarter 2013.
7. MW-1, and MW-11 were not measured after the 4th Quarter 2013.
8. MW-4, MW-10, and MW-14 were not measured during the 1st Quarter 2014.

Abbreviations

-- = Groundwater below level of dedicated pump.
NA = not applicable

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	BXS-1[2,3] - TOC Elevation: 142.65					BXS-2[3] - TOC Elevation: 142.89					BXS-3 - TOC Elevation: 142.07				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	8:41	Below Pump	--	0	**Below Pump**	8:22	36.26	0.00	0.00	**106.63**	8:30	32.25	0.00	0.00	**109.82**
8/25/2013	13:15	32.75	--	-3.53	**109.90**	13:19	30.75	5.51	-3.50	**112.14**	13:21	26.65	5.60	-3.65	**115.42**
12/2/2013	14:20	35.52	--	-2.77	**107.13**	15:12	33.69	2.57	-2.94	**109.20**	15:50	35.52	-3.27	-8.87	**106.55**
3/16/2014	14:09	33.90		1.62	**108.75**	14:05	22.14	14.12	11.55	**120.75**	14:03	28.00	4.25	7.52	**114.07**
6/2/2014	15:10	31.45		2.45	**111.20**	16:00	29.80	6.46	-7.66	**113.09**	17:01	25.71	6.54	2.29	**116.36**
9/29/2014	14:02	35.19	--	-3.74	**107.46**	14:54	33.40	2.86	-3.60	**109.49**	15:40	29.60	2.65	-3.89	**112.47**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	BXS-4 - TOC Elevation: 143.42					HC-MW-5 - TOC Elevation: 143.75					HC-MW-6 - TOC Elevation: 146.36				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	11:51	11.32	0.00	0.00	**132.10**	15:15	23.33	0.00	0.00	**120.42**	11:05	39.52	0.00	0.00	**106.84**
8/25/2013	11:08	15.12	-3.80	-3.35	**128.30**	-	-	-	-	-	-	-	-	-	-
12/2/2013	8:05	13.60	-2.28	1.52	**129.82**	14:07	27.01	-3.68	-	**116.74**	-	-	-	-	-
3/16/2014	13:57[7]	11.57	-0.25	2.03	**131.85**	-	-	-	-	-	-	-	-	-	-
6/2/2014	17:06	12.26	-0.94	-0.69	**131.16**	-	-	-	-	-	-	-	-	-	-
9/29/2014	16:26	14.60	-3.28	-2.34	**128.82**	-	-	-	-	-	-	-	-	-	-

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	HC-MW-7 - TOC Elevation: 144.73					MW-1 - TOC Elevation: 147.44					MW-2 - TOC Elevation: 145.96				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	14:19	42.06	0.00	0.00	**102.67**	12:05	23.11	0.00	0.00	**124.33**	14:23	42.28	0.00	0.00	**103.68**
8/25/2013	12:03	37.8	4.26	-3.50	**106.93**	12:29	25.77	-2.66	-1.92	**121.67**	12:26	38.25	4.03	-3.81	**107.71**
12/2/2013	-	40.65	1.41	-2.85	**104.08**	14:00	27.15	-4.04	-1.38	**120.29**	15:00	40.97	1.31	-2.72	**104.99**
3/16/2014	12:38	39.15	2.91	1.50	**105.58**	-	-	-	-	-	--	39.20	3.08	1.77	**106.76**
6/2/2014	9:50	36.63	5.43	2.52	**108.10**	-	-	-	-	-	14:30	36.71	5.57	2.49	**109.25**
9/29/2014	10:00	40.31	1.75	-3.68	**104.42**	16:50	28.54	-5.43	--	**118.90**	14:14	40.60	1.68	-3.89	**105.36**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-3[3] - TOC Elevation: 146.13					MW-4 - TOC Elevation: 145.02					MW-10 - TOC Elevation: 144.99				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	10:22	39.26	0.00	0.00	**106.87**	11:37	9.48	0.00	0.00	**135.54**	12:15	30.09	0.00	0.00	**114.90**
8/25/2013	12:55	35.65	3.61	-3.70	**110.48**	12:35	13.26	-3.78	-1.81	**131.76**	13:10	28.43	1.66	-4.21	**116.56**
12/2/2013	13:10	38.51	0.75	-2.86	**107.62**	14:12	11.25	-1.77	2.01	**133.77**	14:19	31.41	-1.32	-2.98	**113.58**
3/16/2014	--	36.56	2.70	1.95	**109.57**	-	-	-	-	**-**	-	-	-	-	**-**
6/2/2014	11:45	34.35	4.91	2.21	**111.78**	17:10	11.71	-2.23	-	**133.31**	17:19	26.60	3.49	-	**118.39**
9/29/2014	12:11	38.15	1.11	-3.80	**107.98**	16:57	11.38	-1.90	0.33	**133.64**	15:04	31.93	-1.84	-5.33	**113.06**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-11 - TOC Elevation: 146.06					MW-14 - TOC Elevation: 141.70					MW-15 - TOC Elevation: 142.22				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	11:59	20.32	0.00	0.00	**125.74**	11:45	21.72	0.00	0.00	**119.98**	13:47	37.50	0.00	0.00	**104.72**
8/25/2013	12:43	23.00	-2.68	-1.38	**123.06**	17:38	22.01	-0.29	-3.69	**119.69**	12:07	33.33	4.17	-3.52	**108.89**
12/2/2013	14:04	23.25	-2.93	-0.25	**122.81**	14:15	22.67	-0.95	-0.66	**119.03**	14:45	36.13	1.37	-2.80	**106.09**
3/16/2014	-	-	-	-	-	-	-	-	-	-	12:52	34.53	2.97	1.60	**107.69**
6/2/2014	-	-	-	-	-	17:13	18.95	2.77	-	**122.75**	10:20	32.15	5.35	2.38	**110.07**
9/29/2014	-	-	-	-	-	17:00	23.60	-1.88	-4.65	**118.10**	9:43	35.70	1.80	-3.55	**106.52**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-16 - TOC Elevation: 142.91					MW-17 - TOC Elevation: 144.85					MW-18 - TOC Elevation: 142.45				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	13:57	39.00	0.00	0.00	**103.91**	13:52	40.38	0.00	0.00	**104.47**	14:14	40.40	0.00	0.00	**102.05**
8/25/2013	12:00	34.74	4.26	-3.59	**108.17**	12:11	36.10	4.28	-3.54	**108.75**	8:01	35.97	4.43	-3.47	**106.48**
12/2/2013	11:52	37.65	1.35	-2.91	**105.26**	9:50	38.97	1.41	-2.87	**105.88**	7:48	38.78	1.62	-2.81	**103.67**
3/16/2014	12:35	36.00	3.00	1.65	**106.91**	14:07	37.55	2.83	1.42	**107.30**	7:43 [8]	37.4	3.00	1.38	**105.05**
6/2/2014	17:41	33.61	5.39	2.39	**109.30**	16:37	35.00	5.38	2.55	**109.85**	7:53	34.96	5.44	2.44	**107.49**
9/29/2014	15:40	37.11	1.89	-3.50	**105.80**	16:28	38.55	1.83	-3.55	**106.30**	7:54	38.40	2.00	-3.44	**104.05**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-22 - TOC Elevation: 142.75					MW-23 - TOC Elevation: 143.18					MW-24 - TOC Elevation: 144.13				
Date	Time	Depth (ft) below TOC	Total Change in Level (ft)	Incremental Change in Level	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	10:10	34.03	0.00	0.00	**108.72**	10:02	35.68[6]	0.00	0.00	**107.50**	10:25	37.11	0.00	0.00	**107.02**
8/25/2013	13:02	29.69	4.34	-3.43	**113.06**	13:00	31.64	4.04	-3.49	**111.54**	12:14	33.55	3.56	-3.61	**110.58**
12/2/2013	13:46	32.61	1.42	-2.92	**110.14**	13:07	34.35	1.33	-2.71	**108.83**	13:20	36.40	0.71	-2.85	**107.73**
3/16/2014	--	30.46	3.57	2.15	**112.29**	13:10	32.32	3.36	2.03	**110.86**	13:30	34.52	2.59	1.88	**109.61**
6/2/2014	11:42	28.85	5.18	1.61	**113.90**	12:16	30.35	5.33	1.97	**112.83**	14:20	32.15	4.96	2.37	**111.98**
9/29/2014	12:05	32.65	1.38	-3.80	**110.10**	12:33	34.44	1.24	-4.09	**108.74**	15:04	36.15	0.96	-4.00	**107.98**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-25 - TOC Elevation: 144.98					MW-26 - TOC Elevation: 144.75					MW-27 - TOC Elevation: 144.31				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	10:28	35.92	0.00	0.00	**109.06**	10:54	37.27	0.00	0.00	**107.48**	10:41	37.30	0.00	0.00	**107.01**
8/25/2013	13:07	35.51	0.41	-8.15	**109.47**	12:46	33.97	3.30	-3.64	**110.78**	12:48	33.83	3.47	-3.68	**110.48**
12/2/2013	13:35	33.63	2.29	1.88	**111.35**	13:33	36.75	0.52	-2.78	**108.00**	13:29	36.56	0.74	-2.73	**107.75**
3/16/2014	13:34	30.85	5.07	2.78	**114.13**	16:08	34.75	2.52	2.00	**110.00**	13:40	34.74	2.56	1.82	**109.57**
6/2/2014	13:09	29.46	6.46	1.39	**115.52**	13:35	32.4	4.87	2.35	**112.35**	14:02	32.32	4.98	2.42	**111.99**
9/29/2014	13:30	34.50	1.42	-5.04	**110.48**	14:00	36.48	0.79	-4.08	**108.27**	14:27	36.31	0.99	-3.99	**108.00**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-28 - TOC Elevation: 142.77					MW-29 - TOC Elevation: 142.61					MW-30 - TOC Elevation: 142.40				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	9:47	35.76	0.00	0.00	**107.01**	14:46	36.28	0.00	0.00	**106.33**	13:28	36.93	0.00	0.00	**105.47**
8/25/2013	13:14	31.73	4.03	-3.58	**111.04**	12:23	32.64	3.64	-3.65	**109.97**	12:16	32.95	3.98	-3.56	**109.45**
12/2/2013	13:42	34.55	1.21	-2.82	**108.22**	13:05	35.47	0.81	-2.83	**107.14**	12:55	35.81	1.12	-2.86	**106.59**
3/16/2014	14:11	32.05	3.71	2.50	**110.72**	13:11	33.70	2.58	1.77	**108.91**	13:05	34.51	2.42	1.30	**107.89**
6/2/2014	16:06	30.45	5.31	1.60	**112.32**	16:50	31.15	5.13	2.55	**111.46**	10:08	31.68	5.25	2.83	**110.72**
9/29/2014	12:05	34.42	1.34	-3.97	**108.35**	16:12	34.92	1.36	-3.77	**107.69**	17:35	35.42	1.51	-3.74	**106.98**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-31 - TOC Elevation: 140.95					MW-32 - TOC Elevation: 145.01					MW-33 - TOC Elevation: 143.46				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	13:42	35.72	0.00	0.00	**105.23**	10:32	37.65	0.00	0.00	**107.36**	10:17	36.59	0.00	0.00	**106.87**
8/25/2013	12:14	31.65	4.07	-3.55	**109.30**	13:06	34.25	3.40	-3.55	**110.76**	12:54	33.01	3.58	-3.56	**110.45**
12/2/2013	12:52	34.45	1.27	-2.80	**106.50**	13:42	37.00	0.65	-2.75	**108.01**	13:12	35.77	0.82	-2.76	**107.69**
3/16/2014	--	32.41	3.31	2.04	**108.54**	13:33	35.00	2.65	2.00	**110.01**	13:18	34.00	2.59	1.77	**109.46**
6/2/2014	18:06	30.49	5.23	1.92	**110.46**	12:43	32.64	5.01	2.36	**112.37**	16:28	31.60	4.99	2.40	**111.86**
9/29/2014	18:00	34.00	1.72	-3.51	**106.95**	12:58	36.66	0.99	-4.02	**108.35**	15:35	35.52	1.07	-3.92	**107.94**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-34 - TOC Elevation: 142.60					MW-35 - TOC Elevation: 143.89					MW-36 - TOC Elevation: 141.15				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	14:51	36.31	0.00	0.00	**106.29**	11:12	37.53	0.00	0.00	**106.36**	13:41	35.55	0.00	0.00	**105.60**
8/25/2013	12:21	32.65	3.66	-3.65	**109.95**	12:58	33.86	3.67	-3.71	**110.03**	15:00	31.57	3.98	-3.57	**109.58**
12/2/2013	13:02	35.45	0.86	-2.80	**107.15**	13:23	36.57	0.96	-2.71	**107.32**	12:15	34.31	1.24	-2.74	**106.84**
3/16/2014	13:10	33.73	2.58	1.72	**108.87**	13:25	34.43	3.10	2.14	**109.46**	--	32.72	2.83	1.59	**108.43**
6/2/2014	17:08	31.31	5.00	2.42	**111.29**	13:23	32.47	5.06	1.96	**111.42**	11:50	30.31	5.24	2.41	**110.84**
9/29/2014	16:35	34.94	1.37	-3.63	**107.66**	13:10	36.25	1.28	-3.78	**107.64**	10:42	33.80	1.75	-3.49	**107.35**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-37 - TOC Elevation: 141.96					MW-38[4] - TOC Elevation: 143.28					MW-39[4] - TOC Elevation: 142.85				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	14:05	37.80[6]	0.00	0.00	**104.16**	--	--	--	--	--	--	--	--	--	--
8/25/2013	11:52	33.75	4.05	-3.74	**108.21**	12:20	33.36	--	-3.54	**109.92**	11:58	35	--	-3.45	**107.85**
12/2/2013	11:00	36.4	1.40	-2.65	**105.56**	12:58	36.16		-2.80	**107.12**	10:08	37.78	--	-2.78	**105.07**
3/16/2014	12:15	34.94	2.86	1.46	**107.02**	13:07	34.42		1.74	**108.86**	12:54	36.30	--	1.48	**106.55**
6/2/2014	9:07	32.5	5.30	2.44	**109.46**	17:35	32.00	--	2.42	**111.28**	9:30	45.91	--	-9.61	**96.94**
9/29/2014	8:50	36.04	1.76	-3.54	**105.92**	17:00	35.7	--	-3.70	**107.58**	10:30	37.41	--	8.50	**105.44**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

	MW-40[4] - TOC Elevation: 142.10					MW-41[4] - TOC Elevation: 142.21					MW-42[4] - TOC Elevation: 142.68				
Date	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8/25/2013	12:09	33.47	--	-3.23	**108.63**	14:43	34.12	--	-3.46	**108.09**	7:26	36.33	--	-3.49	**106.35**
12/2/2013	12:50	36.48	--	-3.01	**105.62**	12:15	36.95	--	-2.83	**105.26**	7:48	39.00	--	-2.67	**103.68**
3/16/2014	12:25	35.00	--	1.48	**107.10**	12:23	35.53	--	1.42	**106.68**	7:40[8]	37.75	--	1.25	**104.93**
6/2/2014	18:25	32.56	--	2.44	**109.54**	10:30	33.01	--	2.52	**109.20**	8:00	35.33	--	2.42	**107.35**
9/29/2014	11:30	36.16	--	-3.60	**105.94**	12:40	36.55	--	-3.54	**105.66**	7:45	38.85	--	-3.52	**103.83**

TABLE 2
Water Level Readings[1]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Date	MW-43[5] - TOC Elevation: 141.51				
	Time	Depth below TOC (ft)	Total Change in Level (ft)	Incremental Change in Level (ft)	Water Level Elevation
Baseline 1/28/2008	--	--	--	--	--
8/25/2013	8:25	37.74	--	-3.09	**103.77**
12/2/2013	8:38	40.5	--	-2.76	**101.01**
3/16/2014	8:27 [8]	39.55	--	0.95	**101.96**
6/2/2014	8:55	37.19	--	2.36	**104.32**
9/29/2014	8:50	40.26	--	-3.07	**101.25**

Notes
1. Groundwater elevations in feet specified relative to North American Vertical Datum of 1988 (NAVD88).
2. Depth to pump is 36.9 feet.
3. Surveyors identified elevation from the top of the steel lid on the aboveground monuments. Reported elevations were decreased to reflect top of casing elevation by subtracting the difference in elevation from the lid to the top of casing measured using a pocket measuring tape.
4. Monitoring wells MW-38 through MW-42 were installed in July 2010.
5. Monitoring well MW-43 was installed in October 2010.
6. Elevations indicated for MW-23 and MW-37 on 1/28/2008 are raised by 1 foot from values recorded in the field due to suspected error in field recording.
7. Groundwater elevation measured on 8/20/12 due to well location in closed maintenance yard.

Abbreviations
-- = Data point was either not measured or not calculated
ft = feet
TOC = top of casing

TABLE 3

Vertical Groundwater Gradients at Monitoring Well Pairs [1,2]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Vertical Hydraulic Gradient	Well Pair	8/25/2013	12/2/2013	3/16/2014	6/2/2014	9/29/2014
Shallow / Intermediate	MW-25/MW-32	-0.0900	0.2300	0.2807	0.2146	0.1451
	MW-3/MW-33	0.0019	-0.0045	0.0070	-0.0051	0.0025
	MW-29/MW-34	0.0010	-0.0007	0.0026	0.0112	0.0020
Shallow / Deep	MW-29/MW-38	0.0015	0.0006	0.0015	0.0052	0.0032
	MW-15/MW-40	0.0070	0.0120	0.0156	0.0141	0.0154
Intermediate / Deep	MW-37/MW-41	0.0050	0.0120	0.0136	0.0104	0.0104

Notes

1. Vertical groundwater gradients are dimensionless.
2. Gradients are calculated as shallower well groundwater elevation minus deeper well groundwater elevation divided by the distance between well screen midpoints. Positive values indicate a downward flow direction, while negative values indicate an upward flow direction.

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01LF	BXS-1	BXS-1	1/9/08	66	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0067 J	0.005 U	0.0035 U	0.0067
2008_03	BXS-1	BXS-1	2/26/08	54																		
2008_SI	BXS-1	BXS-1	4/30/08	53	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	BXS-1	BXS-1	7/29/08	27	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	BXS-1	BXS-1	10/22/08	26	0.02	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.02
2009_SI	BXS-1	BXS-1	2/10/09	38 J	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	5/6/09	81	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	8/5/09	46	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	11/18/09	94	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.089 U	0.005 U	0.0035 U	ND
2010_02SIPMP	BXS-1	BXS-1	2/10/10	77	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.003 J	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.057	0.005 U	0.0035 U	0.06
2010_05SIPMP	BXS-1	BXS-1	5/26/10	92	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0045 J	0.0038 U	0.0026 U	0.039 U	0.009 J	0.0037 J	0.0172
2010_08SIPMP	BXS-1	BXS-1	8/18/10	85	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.072	0.005 U	0.0035 U	0.072
2010_11SIPMP	BXS-1	BXS-1	11/18/10	73	0.0057 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.025 U	0.005 U	0.0035 U	0.0057
2011_02SIPMP	BXS-1	BXS-1	2/9/11	78 J	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0055 J	0.0072 J	0.01 J	0.015 J	0.008 J	0.0041 J	0.0073 J	0.0044 U	0.0038 U	0.0097 J	0.021 U	0.005 U	0.0035 U	0.0668
2011_05SIPMP	BXS-1	BXS-1	5/17/11	54	0.02 U	0.0044 U	0.0034 U	0.0076 J	0.02 U	0.0077 J	0.02 U	0.02 U	0.02 U	0.0081 J	0.0062 J	0.0044 U	0.0038 U	0.02 U	0.02 U	0.0063 J	0.0035 U	0.0359
2011_08SIPMP	BXS-1	BXS-1	8/24/11	84	0.0028 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.011 J	0.005 U	0.0035 U	0.0138
2011_11SIPMP	BXS-1	BXS-1	11/3/11	79	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.066	0.005 U	0.0035 U	0.066
2012_02SIPMP	BXS-1	BXS-1	2/14/12	78	0.0073 J	0.0057 J	0.02 U	0.0073 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0054 J	0.0056 J	0.02 U	0.031	0.01 J	0.02 U	0.0723
2012_05SIPMP	BXS-1	BXS-1	5/2/12	68	0.0076 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.026	0.019 U	0.019 U	0.0336
2012_08SIPMP	BXS-1	BXS-1	8/21/12	70	0.019 U	0.019 U	0.019 U	0.0046 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.01 J	0.019 U	0.019 U	0.0146
2012_11SIPMP	BXS-1	BXS-1	11/13/12	42 J	0.026 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0063 J	0.019 U	0.024 U	0.011 U	0.019 U	0.0063
2012_11SIPMP	BXS-1	BXS-5	11/13/12	75 J	0.024 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.013 U	0.01 U	0.019 U	0.0051
2013_02SIPMP	BXS-1	BXS-1	2/12/13	56 J	0.0052 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0034 J	0.019 U	0.019 U	0.019 U	0.019 U	0.005 J	0.003 J	0.011 J	0.019 U	0.019 U	0.0276
2013_02SIPMP	BXS-1	BXS-5	2/12/13	60 J	0.0046 J	0.019 U	0.019 U	0.0066 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0044 J	0.019 U	0.0071 J	0.019 U	0.019 U	0.0227
2013_06SIPMP	BXS-1	BXS-1	6/4/13	69	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0096 J	0.019 U	0.019 U	0.0096
2013_06SIPMP	BXS-1	BXS-5	6/4/13	67	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.02 U	0.028
2013_08SIPMP	BXS-1	BXS-1	8/27/13	51	0.0049 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0055 U	0.0026 U	0.14	0.005 U	0.0053 U	0.14
2013_08SIPMP	BXS-1	BXS-5	8/27/13	45	0.0045 U	0.0044 U	0.0034 U	0.0099 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0055 U	0.0026 U	0.13	0.005 U	0.0053 U	0.13
2013_12SIPMP	BXS-1	BXS-1	12/2/13	57	0.0029 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.042 U	0.02 U	0.02 U	ND
2013_12SIPMP	BXS-1	BXS-5	12/2/13	58	0.0031 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.058 U	0.02 U	0.02 U	ND
2014_03SIPMP	BXS-1	BXS-1	3/17/14	72	0.0089 U	0.015 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.025 U	0.019 U	0.019 U	0.015
2014_03SIPMP	BXS-1	BXS-5	3/17/14	73	0.0047 U	0.0099 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.041 U	0.019 U	0.019 U	0.0099
2014_06SIPMP	BXS-1	BXS-1	6/2/14	67	0.019 U	0.019 U	0.019 U	0.0099 J	0.0048 J	0.019 U	0.019 U	0.0069 J	0.019 U	0.0036 J	0.0033 J	0.019 U	0.019 U	0:0045 J	0.029 U	0.019 U	0.019 U	0.033
2014_06SIPMP	BXS-1	BXS-5	6/2/14	59	0.019 U	0.019 U	0.019 U	0.0096 J	0.0038 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0134
2014_09SIPMP	BXS-1	BXS-1	9/29/14	49	0.02 U	0.02 U	0.02 U	0.0082 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.013 J	0.02 U	0.02 U	0.0212
2014_09SIPMP	BXS-1	BXS-5	9/29/14	43	0.0024 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 J	0.019 U	0.019 U	0.0214

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01LF	BXS-2	BXS-2	1/9/08	0.08 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.005 J	0.005 U	0.0035 U	0.005
2008_SI	BXS-2	BXS-2	4/30/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	BXS-2	BXS-2	7/30/08	0.08 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	BXS-2	BXS-2	10/22/08	0.08 U	0.0095 J	0.0044 U	0.0034 U	0.0036 U	0.012 J	0.0084 J	0.011 J	0.02 U	0.011 J	0.011 J	0.0085 J	0.0044 U	0.0038 U	0.02 U	0.02 U	0.005 U	0.0035 U	0.0714
2009_SI	BXS-2	BXS-2	2/10/09	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	BXS-2	BXS-2	5/6/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0042 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.024 U	0.005 U	0.0035 U	0.0042
2009_SI	BXS-2	BXS-2	8/5/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.037 U	0.005 U	0.0035 U	ND
2009_SI	BXS-2	BXS-2	11/18/09	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.089 U	0.005 U	0.0035 U	ND
2010_02SIPMP	BXS-2	BXS-2	2/10/10	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.044	0.005 U	0.013 J	0.057
2010_05SIPMP	BXS-2	BXS-2	5/26/10	0.07 U	0.02 U	0.0097 J	0.0072 J	0.0075 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0091 J	0.015 J	0.0026 U	0.022 U	0.034	0.0047 J	0.0872
2010_08SIPMP	BXS-2	BXS-2	8/18/10	0.07 U	0.0023 U	0.0044 U	0.0046 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.051	0.005 U	0.0074 J	0.063
2010_11SIPMP	BXS-2	BXS-2	11/18/10	0.07 U	0.0025 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.026 U	0.005 U	0.0035 U	0.0025
2011_02SIPMP	BXS-2	BXS-2	2/9/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	BXS-2	BXS-2	5/17/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0057 J	0.02 U	0.0043 U	0.02 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.0057
2011_08SIPMP	BXS-2	BXS-2	8/24/11	0.07 U	0.0038 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0054 J	0.0026 U	0.011 J	0.005 U	0.0035 U	0.0202
2011_11SIPMP	BXS-2	BXS-2	11/3/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.005 J	0.0026 U	0.037	0.005 U	0.0035 U	0.042
2012_02SIPMP	BXS-2	BXS-2	2/14/12	87 U	0.006 J	0.02 Ui	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.006 J	0.02 U	0.037	0.02 U	0.02 U	0.049
2012_05SIPMP	BXS-2	BXS-2	5/2/12	0.50 U	0.0086 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.13	0.019 U	0.019 U	0.1386
2012_08SIPMP	BXS-2	BXS-2	8/21/12	0.50 U	0.0039 J	0.021 U	0.021 U	0.0066 J	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.0066 J	0.021 U	0.075	0.021 U	0.021 U	0.0921
2012_11SIPMP	BXS-2	BXS-2	11/13/12	0.50 U	0.022 U	0.019 U	0.019 U	0.0041 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0088 J	0.019 U	0.035 U	0.013 U	0.019 U	0.0129
2013_02SIPMP	BXS-2	BXS-2	2/12/13	0.50 U	0.0065 J	0.019 U	0.019 U	0.0067 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0055 J	0.019 U	0.014 J	0.019 U	0.01 J	0.0427
2013_06SIPMP	BXS-2	BXS-2	6/4/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.029	0.019 U	0.019 U	0.029
2013_08SIPMP	BXS-2	BXS-2	8/27/13	0.16 U	0.0073 U	0.0067 U	0.01 J	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0049 U	0.0026 U	0.15	0.005 U	0.0079 J	0.1679
2013_12SIPMP	BXS-2	BXS-2	12/2/13	0.50 U	0.0042 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.057 U	0.019 U	0.019 U	ND
2014_03SIPMP	BXS-2	BXS-2	3/17/14	0.50 U	0.0094 U	0.01 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.02 U	0.02 U	0.01
2014_06SIPMP	BXS-2	BXS-2	6/2/14	0.50 U	0.02 U	0.02 U	0.0093 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.044 U	0.02 U	0.02 U	0.0093
2014_09SIPMP	BXS-2	BXS-2	9/29/14	0.50 U	0.02 U	0.02 U	0.02 U	0.011 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.02 U	0.031
2012_05SIPMP	BXS-3	BXS-3	5/2/12	0.50 U	0.0029 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.044	0.019 U	0.019 U	0.0469
2012_05SIPMP	BXS-4	BXS-4	5/2/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.034	0.019 U	0.019 U	0.034
2008_01	EW1-EW7	0130-COMP	1/30/08	130																		
2008_03	EW1-EW7	EW1-7 COMP	2/27/08	270																		
2008_SI	EW1-EW7	EW 1-7 Comp.	4/29/08	240																		
2008_SI	EW1-EW7	Extra Well 1-7	7/29/08	230																		
2008_SI	EW1-EW7	EW 1-7	10/22/08	170																		
2009_SI	EW1-EW7	EW 1-7	2/11/09	210																		
2009_SI	EW1-EW7	EW 1-7	5/7/09	210																		
2008_SI	HCMW-7	HCMW-7	10/20/08	0.08 U	0.02	0.009 J	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.012 J	0.0092 J	0.0026 U	0.03	0.025	0.0083 J	0.1135
2009_SI	HCMW-7	HCMW-7	2/11/09	0.16 U																		
2009_SI	HCMW-7	HCMW-7	5/4/09	0.16 U																		
2009_SI	HCMW-7	HCMW-7	8/3/09	0.16 U																		
2009_SI	HCMW-7	HCMW-7	11/16/09	0.16 U																		
2010_02SIPMP	HCMW-7	HCMW-7	2/8/10	0.16 U																		
2010_05SIPMP	HCMW-7	HCMW-7	5/24/10	0.07 U																		
2010_08SIPMP	HCMW-7	HCMW-7	8/16/10	0.07 U																		
2010_11SIPMP	HCMW-7	HCMW-7	11/15/10	0.07 U																		
2011_02SIPMP	HCMW-7	HCMW-7	2/7/11	0.07 U																		
2011_05SIPMP	HCMW-7	HCMW-7	5/16/11	0.07 U																		
2011_08SIPMP	HCMW-7	HCMW-7	8/23/11	0.12 J																		
2011_11SIPMP	HCMW-7	HCMW-7	11/2/11	0.07 U																		
2012_02SIPMP	HCMW-7	HCMW-7	2/13/12	0.20 U																		
2012_05SIPMP	HCMW-7	HCMW-7	5/1/12	0.50 U																		
2012_08SIPMP	HCMW-7	HCMW-7	8/20/12	0.50 U																		
2012_11SIPMP	HCMW-7	HCMW-7	11/12/12	0.50 U																		
2013_02SIPMP	HCMW-7	HCMW-7	2/11/13	0.50 U																		
2013_06SIPMP	HCMW-7	HCMW-7	6/3/13	0.50 U																		
2013_08SIPMP	HCMW-7	HCMW-7	8/26/13	0.17 U																		
2013_12SIPMP	HCMW-7	HCMW-7	12/2/13	0.50 U																		
2014_03SIPMP	HCMW-7	HCMW-7	3/17/14	0.21 N																		
2014_06SIPMP	HCMW-7	HCMW-7	6/2/14	NA																		
2014_09SIPMP	HCMW-7	HCMW-7	9/29/14	0.50 U																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-2	MW-2	1/8/08	0.08 U	0.0091 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.006 J	0.005 U	0.0035 U	0.0151
2008_SI	MW-2	MW-2	4/29/08	0.08 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-2	MW-2	7/29/08	0.08 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-2	MW-2	10/21/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0048 J	0.0038 U	0.0026 U	0.019 U	0.019 U	0.0035 U	0.0048
2009_SI	MW-2	MW-2	2/10/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	5/5/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	8/4/09	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	11/17/09	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.072 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-2	MW-2	2/9/10	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047	0.005 U	0.0035 U	0.047
2010_05SIPMP	MW-2	MW-2	5/25/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.036 U	0.005 U	0.0035 U	ND
2010_08SIPMP	MW-2	MW-2	8/17/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2010_11SIPMP	MW-2	MW-2	11/17/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.036 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-2	MW-2	2/8/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-2	MW-2	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0045 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.033 U	0.005 U	0.0035 U	0.0045
2011_08SIPMP	MW-2	MW-2	8/23/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.012 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.012
2011_11SIPMP	MW-2	MW-2	11/2/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0045 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.046 U	0.005 U	0.0035 U	0.0045
2012_02SIPMP	MW-2	MW-2	2/13/12	0.20 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.043
2012_05SIPMP	MW-2	MW-2	4/30/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.032	0.019 U	0.019 U	0.032
2012_08SIPMP	MW-2	MW-2	8/20/12	0.50 U	0.021 U	0.021 U	0.021 U	0.0058 J	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.099	0.021 U	0.021 U	0.1048
2012_11SIPMP	MW-2	MW-2	11/12/12	0.50 U	0.025	0.02 U	0.02 U	0.0055 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.004 J	0.02 U	0.0059 U	0.0086 U	0.02 U	0.0345
2013_02SIPMP	MW-2	MW-2	2/11/13	0.50 U	0.0063 J	0.019 U	0.019 U	0.0044 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.013 J	0.019 U	0.019 U	0.0237
2013_06SIPMP	MW-2	MW-2	6/3/13	0.50 U	0.0029 U	0.02 U	0.02 U	0.015 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.02 U	0.02 U	0.015
2013_08SIPMP	MW-2	MW-2	8/26/13	0.16 U	0.013 U	0.0044 U	0.0034 U	0.013 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.097	0.005 U	0.0053 U	0.097
2013_12SIPMP	MW-2	MW-2	12/2/13	0.50 U	0.0044 U	0.019 U	0.019 U	0.0072 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.08 U	0.0068 U	0.019 U	0.0072
2014_03SIPMP	MW-2	MW-2	3/16/14	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.023
2014_06SIPMP	MW-2	MW-2	6/1/14	0.50 U	0.019 U	0.019 U	0.019 U	0.0055 J	0.005 J	0.019 U	0.019 U	0.019 UJ	0.0044 J	0.0056 J	0.012 J	0.019 U	0.019 U	0.0049 J	0.013 J	0.019 U	0.019 U	0.0504
2014_09SIPMP	MW-2	MW-2	9/28/14	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0026 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 J	0.02 U	0.02 U	0.0206
2008_01LF	MW-3	MW-3	1/9/08	480	0.019 U	0.041	0.0084 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.017 J	0.0026 U	0.11	0.005 U	0.0035 U	0.1764
2008_03	MW-3	MW-3	2/26/08	2700																		
2008_SI	MW-3	MW-3	4/29/08	1200	1.3	0.51	0.14	0.034	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.36	0.0026 U	3.9	0.024	0.0035 U	6.268
2008_SI	MW-3	MW-3	7/29/08	1,800	1.2	0.66	0.15	0.077	0.0026 U	0.0043 U	0.0042 J	0.0029 J	0.0025 U	0.0034 U	0.0025 U	0.0044 U	1.1	0.02 U	6.5	0.048	0.0035 U	9.7421
2008_SI	MW-3	MW-3	10/21/08	1700	1.2	1	0.22	0.044 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	1.5	0.0026 U	6	0.039 U	0.0035 U	9.92
2009_SI	MW-3	MW-3	2/10/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-3	MW-3	5/5/09	4.4	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-3	MW-3	8/4/09	1,100	0.019 U	0.0044 U	0.016 J	0.017 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.033
2009_SI	MW-3	MW-3	11/17/09	2,400	0.86	1.2	0.3	0.04	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	2.2	0.0026 U	3.8	0.1	0.0035 U	8.5
2010_02SIPMP	MW-3	MW-3	2/9/10	0.39 J	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.095	0.005 U	0.0035 U	0.095
2010_05SIPMP	MW-3	MW-3	5/25/10	0.45	0.0023 U	0.0044 U	0.0034 U	0.0042 J	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0058 J	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0041 J	0.0141
2010_08SIPMP	MW-3	MW-3	8/17/10	1.6	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2010_11SIPMP	MW-3	MW-3	11/16/10	750	0.2	0.16	0.048	0.011 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.66	0.0026 U	0.56	0.11	0.0035 U	1.749
2011_02SIPMP	MW-3	MW-3	2/8/11	1.6	0.0023 U	0.0044 U	0.0034 U	0.004 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.004
2011_05SIPMP	MW-3	MW-3	5/16/11	8.3	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.033 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-3	MW-3	8/23/11	14	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-3	MW-3	11/2/11	12	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.034 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-3	MW-3	2/14/12	14	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.024 U	0.02 U	0.02 U	ND
2012_05SIPMP	MW-3	MW-3	4/30/12	130	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.062	0.019 U	0.019 U	0.062
2012_08SIPMP	MW-3	MW-3	8/20/12	81	0.022 U	0.022 U	0.022 U	0.022 U	0.0034 J	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.08	0.022 U	0.022 U	0.0834
2012_11SIPMP	MW-3	MW-3	11/12/12	42	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.005 J	0.02 U	0.011 U	0.0071 U	0.02 U	0.028
2013_02SIPMP	MW-3	MW-3	2/11/13	110 J	0.0039 J	0.019 U	0.019 U	0.0068 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.013 J	0.019 U	0.019 U	0.0237
2013_06SIPMP	MW-3	MW-3	6/3/13	130	0.0025 U	0.02 U	0.02 U	0.0094 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.0094
2013_08SIPMP	MW-3	MW-3	8/25/13	85																		
2013_12SIPMP	MW-3	MW-3	12/1/13	100	0.0071 U	0.015 J	0.013 J	0.012 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.058	0.02 U	0.12	0.016 U	0.02 U	0.218
2014_03SIPMP	MW-3	MW-3	3/16/14	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.044	0.02 U	0.02 U	0.044
2014_06SIPMP	MW-3	MW-3	6/1/14	11.00	0.0025 J	0.019 U	0.019 U	0.0065 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.037	0.019 U	0.019 U	0.046
2014_09SIPMP	MW-3	MW-3	9/28/14	8	0.0032 J	0.02 U	0.02 U	0.02 U	0.0032 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.017 J	0.02 U	0.02 U	0.0234
2008_SI	MW-10	MW-10	4/29/08	0.08 U																		
2008_SI	MW-10	MW-10	7/29/08	0.08 U																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-15	MW-15	1/8/08	200	0.013 J	0.0044 U	0.0081 J	0.0086 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.41	0.005 U	0.0035 U	0.4397
2008_SI	MW-15	MW-15	4/29/08	200	0.019 U	0.0044 U	0.0087 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.52	0.005 U	0.0035 U	0.5287
2008_SI	MW-15	MW-15	7/29/08	190	0.019 U	0.0044 U	0.0076 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.44	0.005 U	0.0035 U	0.4476
2008_SI	MW-15	MW-15	10/21/08	230	0.019 U	0.0044 U	0.01 J	0.01 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.5	0.005 U	0.0035 U	0.52
2009_SI	MW-15	MW-15	2/10/09	190	0.019 U	0.0055 J	0.0084 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.49	0.005 U	0.0035 U	0.5039
2009_SI	MW-15	MW-15	5/5/09	98	0.02 U	0.0044 U	0.0055 J	0.0054 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.3	0.005 U	0.0035 U	0.3109
2009_SI	MW-15	MW-15	8/4/09	95	0.0023 U	0.0044 U	0.0039 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0039
2009_SI	MW-15	MW-15	11/17/09	64	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-15	MW-15	2/8/10	33	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.045	0.005 U	0.0035 U	0.045
2010_05SIPMP	MW-15	MW-15	5/24/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0045 J	0.005 U	0.0036 J	0.0081
2010_08SIPMP	MW-15	MW-15	8/17/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0043 J	0.005 U	0.0035 U	0.0043
2010_11SIPMP	MW-15	MW-15	11/16/10	0.097 J	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-15	MW-15	2/8/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-15	MW-15	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.037 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-15	MW-15	8/23/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-15	MW-15	11/2/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-15	MW-15	2/13/12	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.043
2012_05SIPMP	MW-15	MW-15	4/30/12	0.50 U	0.019 U	0.019 U	0.019 U	0.004 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.036	0.019 U	0.019 U	0.04
2012_08SIPMP	MW-15	MW-15	8/19/12	0.49 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.091	0.02 U	0.02 U	0.091
2012_11SIPMP	MW-15	MW-15	11/11/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0058 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-15	MW-15	2/11/13	0.50 U	0.019 U	0.019 U	0.019 U	0.0038 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.012 J	0.019 U	0.019 U	0.0158
2013_06SIPMP	MW-15	MW-15	6/3/13	0.63	0.0027 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.04 U	0.02 U	0.02 U	ND
2013_08SIPMP	MW-15	MW-15	8/26/13	0.51 N	0.0023 U	0.0044 U	0.0034 U	0.004 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.061	0.005 U	0.0053 U	0.061
2013_12SIPMP	MW-15	MW-15	12/2/13	0.50 U	0.0045 U	0.019 U	0.019 U	0.0077 J	0.0042 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.019 U	0.004 J	0.019 U	0.019 U	0.019 U	0.073 U	0.009 U	0.019 U	0.0168
2014_03SIPMP	MW-15	MW-15	3/17/14	1.30	U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-15	MW-15	6/2/14	3.10	0.019 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.036 U	0.019 U	0.019 U	0.0051
2014_09SIPMP	MW-15	MW-15	9/29/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.02	0.019 U	0.019 U	0.02
2008_01	MW-16	MW-16	1/8/08	0.08 U	0.0029 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0043 J	0.005 U	0.0035 U	0.0072
2008_SI	MW-16	MW-16	4/29/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-16	MW-16	7/29/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-16	MW-16	10/20/08	7.3	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0041 J	0.0067 J	0.0035 U	0.0108
2009_SI	MW-16	MW-16	2/10/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	5/4/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	8/4/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	11/16/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.091 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-16	MW-16	2/8/10	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.043	0.005 U	0.0035 U	0.043
2010_05SIPMP	MW-16	MW-16	5/24/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.036	0.005 U	0.0035 U	0.036
2010_08SIPMP	MW-16	MW-16	8/17/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 J	0.005 U	0.0035 U	0.019
2010_11SIPMP	MW-16	MW-16	11/16/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.025 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-16	MW-16	2/7/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.021 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-16	MW-16	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-16	MW-16	8/23/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-16	MW-16	11/1/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.046 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-16	MW-16	2/13/12	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.048	0.02 U	0.02 U	0.048
2012_05SIPMP	MW-16	MW-16	4/30/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.014 J	0.019 U	0.019 U	0.014
2012_08SIPMP	MW-16	MW-16	8/19/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.004 J	0.019 U	0.019 U	0.004
2012_11SIPMP	MW-16	MW-16	11/12/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-16	MW-16	2/10/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0097 J	0.019 U	0.019 U	0.0097
2013_06SIPMP	MW-16	MW-16	6/2/13	0.50 U	0.0031 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.043
2013_08SIPMP	MW-16	MW-16	8/26/13	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.13	0.005 U	0.0053 U	0.13
2013_12SIPMP	MW-16	MW-16	12/2/13	0.50 U	0.0031 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.053 U	0.0067 U	0.019 U	ND
2014_03SIPMP	MW-16	MW-16	3/17/14	0.17 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.044 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-16	MW-16	6/1/14	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0029 J	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02	0.02 U	0.02 U	0.0229
2014_09SIPMP	MW-16	MW-16	9/28/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0028 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.017 J	0.019 U	0.019 U	0.0198

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-17	MW-17	1/8/08	0.08 U	0.0043 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0036 J	0.005 U	0.0035 U	0.0079
2008_SI	MW-17	MW-17	4/29/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-17	MW-17	7/28/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2008_SI	MW-17	MW-17	10/21/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	2/9/09	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	5/5/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	8/3/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.048 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	11/17/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.073 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-17	MW-17	2/8/10	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.05	0.005 U	0.0035 U	0.05
2010_05SIPMP	MW-17	MW-17	5/24/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.036	0.0059 U	0.0039 J	0.0399
2010_08SIPMP	MW-17	MW-17	8/16/10	0.07 U	0.0031 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	0.0031
2010_11SIPMP	MW-17	MW-17	11/16/10	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.033 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-17	MW-17	2/8/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-17	MW-17	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-17	MW-17	8/23/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-17	MW-17	11/2/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.049 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-17	MW-17	2/12/12	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.045	0.02 U	0.02 U	0.045
2012_05SIPMP	MW-17	MW-17	4/30/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.019
2012_08SIPMP	MW-17	MW-17	8/19/12	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.074	0.02 U	0.02 U	0.074
2012_11SIPMP	MW-17	MW-17	11/11/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-17	MW-17	2/10/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0075 J	0.019 U	0.019 U	0.0075
2013_06SIPMP	MW-17	MW-17	6/3/13		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.035 U	0.02 U	0.02 U	ND
2013_08SIPMP	MW-17	MW-17	8/26/13	0.16 U	0.0027 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.12	0.005 U	0.0053 U	0.12
2013_12SIPMP	MW-17	MW-17	12/2/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0033 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.05 U	0.0057 U	0.019 U	ND
2014_03SIPMP	MW-17	MW-17	3/17/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.012 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-17	MW-17	6/1/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.044	0.019 U	0.019 U	0.044
2014_09SIPMP	MW-17	MW-17	9/28/14	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021	0.02 U	0.02 U	0.021
2008_01	MW-18	MW-18	1/7/08	0.08 U	0.0023 U	0.0049 J	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0035 J	0.005 U	0.0035 U	0.0084
2008_SI	MW-18	MW-18	4/28/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-18	MW-18	7/28/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2008_SI	MW-18	MW-18	10/20/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0033 J	0.005 U	0.0035 U	0.0033
2009_SI	MW-18	MW-18	2/10/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	5/4/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	8/3/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	11/18/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.085 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-18	MW-18	2/8/10	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0071 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2010_05SIPMP	MW-18	MW-18	5/24/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.034	0.005 U	0.0035 U	0.034
2010_08SIPMP	MW-18	MW-18	8/16/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2010_11SIPMP	MW-18	MW-18	11/15/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-18	MW-18	2/7/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-18	MW-18	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.031 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-18	MW-18	8/23/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-18	MW-18	11/2/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-18	MW-18	2/13/12	0.20 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.024	0.02 U	0.02 U	0.044
2012_05SIPMP	MW-18	MW-18	5/1/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.13	0.019 U	0.019 U	0.13
2012_08SIPMP	MW-18	MW-18	8/20/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.036	0.019 U	0.019 U	0.036
2012_11SIPMP	MW-18	MW-18	11/12/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.014 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-18	MW-18	2/11/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.021 J	0.019 U	0.019 U	0.021
2013_06SIPMP	MW-18	MW-18	6/3/13	0.50 U	0.0045 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.051 U	0.02 U	0.02 U	ND
2013_08SIPMP	MW-18	MW-18	8/26/13	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.1	0.005 U	0.0053 U	0.1
2013_12SIPMP	MW-18	MW-18	12/2/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.074 U	0.0061 U	0.019 U	ND
2014_03SIPMP	MW-18	MW-18	3/17/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.026 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-18	MW-18	6/2/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.031 U	0.019 U	0.019 U	ND
2014_09SIPMP	MW-18	MW-18	9/26/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.015 J	0.019 U	0.019 U	0.015

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-22	MW-22	1/10/08	130																		
2008_03	MW-22	MW-22	2/27/08	72																		
2008_SI	MW-22	MW-22	4/29/08	92																		
2008_SI	MW-22	MW-22	7/29/08	32																		
2008_SI	MW-22	MW-22	10/21/08	15																		
2009_SI	MW-22	MW-22	2/11/09	5.5																		
2009_SI	MW-22	MW-22	5/5/09	3.6																		
2009_SI	MW-22	MW-22	8/4/09	4.4																		
2009_SI	MW-22	MW-22	11/17/09	5.4																		
2010_02SIPMP	MW-22	MW-22	2/9/10	3.9																		
2010_05SIPMP	MW-22	MW-22	5/25/10	13																		
2010_08SIPMP	MW-22	MW-22	8/18/10	51 J																		
2010_11SIPMP	MW-22	MW-22	11/17/10	98																		
2011_02SIPMP	MW-22	MW-22	2/9/11	130																		
2011_05SIPMP	MW-22	MW-22	5/17/11	150																		
2011_08SIPMP	MW-22	MW-22	8/23/11	220																		
2011_11SIPMP	MW-22	MW-22	11/2/11	230																		
2012_02SIPMP	MW-22	MW-22	2/13/12	300																		
2012_05SIPMP	MW-22	MW-22	4/30/12	280																		
2012_08SIPMP	MW-22	MW-22	8/20/12	280																		
2012_11SIPMP	MW-22	MW-22	11/12/12	250																		
2013_02SIPMP	MW-22	MW-22	2/11/13	180 J																		
2013_06SIPMP	MW-22	MW-22	6/3/13	160																		
2013_08SIPMP	MW-22	MW-22	8/25/13	130																		
2013_12SIPMP	MW-22	MW-22	12/2/13	130																		
2014_03SIPMP	MW-22	MW-22	3/17/14	94																		
2014_06SIPMP	MW-22	MW-22	6/1/14	73																		
2014_09SIPMP	MW-22	MW-22	9/28/14	140																		
2008_01	MW-23	MW-23	1/10/08	500																		
2008_03	MW-23	MW-23	2/27/08	450																		
2008_SI	MW-23	MW-23	4/29/08	210																		
2008_SI	MW-23	MW-23	7/29/08	210																		
2008_SI	MW-23	MW-23	10/21/08	63																		
2009_SI	MW-23	MW-23	2/11/09	170																		
2009_SI	MW-23	MW-23	5/5/09	140																		
2009_SI	MW-23	MW-23	8/4/09	70																		
2009_SI	MW-23	MW-23	11/17/09	8.6																		
2010_02SIPMP	MW-23	MW-23	2/9/10	85																		
2010_05SIPMP	MW-23	MW-23	5/25/10	150																		
2010_08SIPMP	MW-23	MW-23	8/18/10	210																		
2010_11SIPMP	MW-23	MW-23	11/17/10	210																		
2011_02SIPMP	MW-23	MW-23	2/8/11	340																		
2011_05SIPMP	MW-23	MW-23	5/17/11	380																		
2011_08SIPMP	MW-23	MW-23	8/23/11	410																		
2011_11SIPMP	MW-23	MW-23	11/2/11	400																		
2012_02SIPMP	MW-23	MW-23	2/13/12	620																		
2012_05SIPMP	MW-23	MW-23	4/30/12	580																		
2012_08SIPMP	MW-23	MW-23	8/20/12	450																		
2012_11SIPMP	MW-23	MW-23	11/12/12	400																		
2013_02SIPMP	MW-23	MW-23	2/11/13	420 J																		
2013_06SIPMP	MW-23	MW-23	6/3/13	440																		
2013_08SIPMP	MW-23	MW-23	8/25/13	470																		
2013_12SIPMP	MW-23	MW-23	12/1/13	320																		
2013_12SIPMP	MW-23	MW-44	12/1/13	350																		
2014_03SIPMP	MW-23	MW-23	3/17/14	350																		
2014_06SIPMP	MW-23	MW-23	6/1/14	300																		
2014_09SIPMP	MW-23	MW-23	9/28/14	230																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-24	MW-24	1/10/08	180																		
2008_03	MW-24	MW-24	2/27/08	96																		
2008_SI	MW-24	MW-24	4/29/08	0.08 U																		
2008_SI	MW-24	MW-24	7/29/08	0.08 U																		
2008_SI	MW-24	MW-24	10/21/08	2.2																		
2009_SI	MW-24	MW-24	2/11/09	0.16 U																		
2009_SI	MW-24	MW-24	5/5/09	0.16 U																		
2009_SI	MW-24	MW-24	8/4/09	0.35																		
2009_SI	MW-24	MW-24	11/17/09	0.36 J																		
2010_02SIPMP	MW-24	MW-24	2/9/10	3.3																		
2010_05SIPMP	MW-24	MW-24	5/25/10	0.17 J																		
2010_08SIPMP	MW-24	MW-24	8/17/10	0.14 J																		
2010_11SIPMP	MW-24	MW-24	11/17/10	0.27 J																		
2011_02SIPMP	MW-24	MW-24	2/9/11	2.8																		
2011_05SIPMP	MW-24	MW-24	5/17/11	13																		
2011_08SIPMP	MW-24	MW-24	8/23/11	70																		
2011_11SIPMP	MW-24	MW-24	11/2/11	5.6																		
2012_02SIPMP	MW-24	MW-24	2/14/12	58																		
2012_05SIPMP	MW-24	MW-24	4/30/12	380																		
2012_08SIPMP	MW-24	MW-24	8/20/12	170																		
2012_11SIPMP	MW-24	MW-24	11/12/12	0.50 U																		
2013_02SIPMP	MW-24	MW-24	2/11/13	230 J																		
2013_02SIPMP	MW-24	MW-44	2/11/13	280 J																		
2013_06SIPMP	MW-24	MW-24	6/3/13	540																		
2013_06SIPMP	MW-24	MW-44	6/3/13	480																		
2013_08SIPMP	MW-24	MW-24	8/25/13	95																		
2013_08SIPMP	MW-24	MW-44	8/25/13	87																		
2013_12SIPMP	MW-24	MW-24	12/1/13	230																		
2014_03SIPMP	MW-24	MW-24	3/16/14	0.50 U																		
2014_06SIPMP	MW-24	MW-24	6/1/14	64.00																		
2014_09SIPMP	MW-24	MW-24	9/28/14	280																		
2008_01	MW-25	MW-25	1/10/08	230																		
2008_03	MW-25	MW-25	2/27/08	550																		
2008_SI	MW-25	MW-25	4/29/08	240																		
2008_SI	MW-25	MW-25	7/29/08	84																		
2008_SI	MW-25	MW-25	10/21/08	57																		
2009_SI	MW-25	MW-25	2/11/09	30																		
2009_SI	MW-25	MW-25	5/5/09	28																		
2009_SI	MW-25	MW-25	8/4/09	20																		
2009_SI	MW-25	MW-25	11/17/09	15																		
2010_02SIPMP	MW-25	MW-25	2/9/10	41																		
2010_05SIPMP	MW-25	MW-25	5/25/10	36																		
2010_08SIPMP	MW-25	MW-25	8/18/10	37																		
2010_11SIPMP	MW-25	MW-25	11/17/10	16																		
2011_02SIPMP	MW-25	MW-25	2/9/11	53																		
2011_05SIPMP	MW-25	MW-25	5/17/11	3,200																		
2011_08SIPMP	MW-25	MW-25	8/23/11	470																		
2011_11SIPMP	MW-25	MW-25	11/3/11	310																		
2012_02SIPMP	MW-25	MW-25	2/14/12	390																		
2012_05SIPMP	MW-25	MW-25	4/30/12	2,800																		
2012_08SIPMP	MW-25	MW-25	8/20/12	810																		
2012_11SIPMP	MW-25	MW-25	11/12/12	430																		
2013_02SIPMP	MW-25	MW-25	2/11/13	1,700 J																		
2013_06SIPMP	MW-25	MW-25	6/3/13	2,100																		
2013_08SIPMP	MW-25	MW-25	8/25/13	670																		
2013_12SIPMP	MW-25	MW-25	12/1/13	430																		
2014_03SIPMP	MW-25	MW-25	3/16/14	310																		
2014_06SIPMP	MW-25	MW-25	6/1/14	280																		
2014_09SIPMP	MW-25	MW-25	9/28/14	180																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-26	MW-26	1/9/08	0.08 U																		
2008_03	MW-26	MW-26	2/27/08	0.17 J																		
2008_SI	MW-26	MW-26	4/29/08	0.08 U																		
2008_SI	MW-26	MW-26	7/29/08	0.08 U																		
2008_SI	MW-26	MW-26	10/21/08	0.61 U																		
2009_SI	MW-26	MW-26	2/11/09	0.16 U																		
2009_SI	MW-26	MW-26	5/5/09	0.16 U																		
2009_SI	MW-26	MW-26	8/4/09	0.16 U																		
2009_SI	MW-26	MW-26	11/17/09	0.16 U																		
2010_02SIPMP	MW-26	MW-26	2/9/10	0.16 U																		
2010_05SIPMP	MW-26	MW-26	5/25/10	0.07 U																		
2010_08SIPMP	MW-26	MW-26	8/18/10	0.089 J																		
2010_11SIPMP	MW-26	MW-26	11/17/10	0.076 J																		
2011_02SIPMP	MW-26	MW-26	2/9/11	0.07 U																		
2011_05SIPMP	MW-26	MW-26	5/18/11	0.07 U																		
2011_08SIPMP	MW-26	MW-26	8/24/11	0.07 U																		
2011_11SIPMP	MW-26	MW-26	11/2/11	0.14 J																		
2012_02SIPMP	MW-26	MW-26	2/13/12	0.16 NJ																		
2012_05SIPMP	MW-26	MW-26	4/30/12	0.16 J																		
2012_08SIPMP	MW-26	MW-26	8/20/12	0.50 U																		
2012_11SIPMP	MW-26	MW-26	11/12/12	0.50 U																		
2013_02SIPMP	MW-26	MW-26	2/11/13	0.19 J																		
2013_06SIPMP	MW-26	MW-26	6/3/13	0.50 U																		
2013_08SIPMP	MW-26	MW-26	8/25/13	0.27 J																		
2013_12SIPMP	MW-26	MW-26	12/1/13	0.58 N																		
2014_03SIPMP	MW-26	MW-26	3/16/14	0.50 U																		
2014_06SIPMP	MW-26	MW-26	6/1/14	0.50 U																		
2014_09SIPMP	MW-26	MW-26	9/28/14	0.22 J																		
2008_01	MW-27	MW-27	1/10/08	0.48																		
2008_03	MW-27	MW-27	2/27/08	0.08 U																		
2008_SI	MW-27	MW-27	4/29/08	0.18 J																		
2008_SI	MW-27	MW-27	7/29/08	0.08 U																		
2008_SI	MW-27	MW-27	10/21/08	0.23 U																		
2009_SI	MW-27	MW-27	2/11/09	0.16 U																		
2009_SI	MW-27	MW-27	5/5/09	0.16 U																		
2009_SI	MW-27	MW-27	8/4/09	0.16 U																		
2009_SI	MW-27	MW-27	11/17/09	0.16 U																		
2010_02SIPMP	MW-27	MW-27	2/9/10	0.16 U																		
2010_05SIPMP	MW-27	MW-27	5/25/10	0.07 U																		
2010_08SIPMP	MW-27	MW-27	8/18/10	0.07 U																		
2010_11SIPMP	MW-27	MW-27	11/17/10	0.27 J																		
2011_02SIPMP	MW-27	MW-27	2/9/11	0.07 J																		
2011_05SIPMP	MW-27	MW-27	5/18/11	0.07 U																		
2011_08SIPMP	MW-27	MW-27	8/24/11	0.07 U																		
2011_11SIPMP	MW-27	MW-27	11/2/11	0.07 U																		
2012_02SIPMP	MW-27	MW-27	2/13/12	0.20 U																		
2012_05SIPMP	MW-27	MW-27	4/30/12	0.50 U																		
2012_08SIPMP	MW-27	MW-27	8/20/12	0.50 U																		
2012_11SIPMP	MW-27	MW-27	11/12/12	0.50 U																		
2013_02SIPMP	MW-27	MW-27	2/11/13	0.50 U																		
2013_06SIPMP	MW-27	MW-27	6/3/13	0.50 U																		
2013_08SIPMP	MW-27	MW-27	8/25/13	0.30 N																		
2013_12SIPMP	MW-27	MW-27	12/1/13	0.52 N																		
2014_03SIPMP	MW-27	MW-27	3/16/14	0.31 N																		
2014_06SIPMP	MW-27	MW-27	6/1/14	0.50 U																		
2014_09SIPMP	MW-27	MW-27	9/28/14	0.50 U																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-28	MW-28	1/9/08	0.75																		
2008_03	MW-28	MW-28	2/26/08	0.76																		
2008_SI	MW-28	MW-28	4/29/08	0.22																		
2008_SI	MW-28	MW-28	7/28/08	0.08 U																		
2008_SI	MW-28	MW-28	10/21/08	0.08 U																		
2009_SI	MW-28	MW-28	2/11/09	0.16 U																		
2009_SI	MW-28	MW-28	5/5/09	0.16 U																		
2009_SI	MW-28	MW-28	8/4/09	0.16 U																		
2009_SI	MW-28	MW-28	11/17/09	0.31 J																		
2010_02SIPMP	MW-28	MW-28	2/9/10	0.16 U																		
2010_05SIPMP	MW-28	MW-28	5/25/10	0.33																		
2010_08SIPMP	MW-28	MW-28	8/17/10	0.48																		
2010_11SIPMP	MW-28	MW-28	11/17/10	0.87																		
2011_02SIPMP	MW-28	MW-28	2/10/11	2.6																		
2011_05SIPMP	MW-28	MW-28	5/18/11	3.6 J																		
2011_08SIPMP	MW-28	MW-28	8/24/11	10																		
2011_11SIPMP	MW-28	MW-28	11/3/11	12																		
2012_02SIPMP	MW-28	MW-28	2/14/12	22																		
2012_05SIPMP	MW-28	MW-28	4/30/12	59																		
2012_08SIPMP	MW-28	MW-28	8/20/12	40																		
2012_11SIPMP	MW-28	MW-28	11/12/12	43																		
2013_02SIPMP	MW-28	MW-28	2/11/13	64 J																		
2013_06SIPMP	MW-28	MW-28	6/3/13	34																		
2013_08SIPMP	MW-28	MW-28	8/26/13	21																		
2013_12SIPMP	MW-28	MW-28	12/2/13	85																		
2014_03SIPMP	MW-28	MW-28	3/17/14	57																		
2014_06SIPMP	MW-28	MW-28	6/2/14	65																		
2014_09SIPMP	MW-28	MW-28	9/29/14	13																		
2008_01	MW-29	MW-29	1/10/08	1,600																		
2008_03	MW-29	MW-29	2/26/08	730																		
2008_SI	MW-29	MW-29	4/28/08	0.08 U																		
2008_SI	MW-29	MW-29	7/28/08	0.08 U																		
2008_SI	MW-29	MW-29	10/20/08	7.5																		
2009_SI	MW-29	MW-29	2/11/09	0.16 U																		
2009_SI	MW-29	MW-29	5/5/09	0.16 U																		
2009_SI	MW-29	MW-29	8/4/09	0.16 U																		
2009_SI	MW-29	MW-29	11/17/09	0.16 U																		
2010_02SIPMP	MW-29	MW-29	2/9/10	0.16 U																		
2010_05SIPMP	MW-29	MW-29	5/24/10	0.07 U																		
2010_08SIPMP	MW-29	MW-29	8/17/10	0.099 J																		
2010_11SIPMP	MW-29	MW-29	11/17/10	0.087 J																		
2011_02SIPMP	MW-29	MW-29	2/8/11	0.07 U																		
2011_05SIPMP	MW-29	MW-29	5/17/11	0.12 J																		
2011_08SIPMP	MW-29	MW-29	8/23/11	0.11 J																		
2011_11SIPMP	MW-29	MW-29	11/2/11	0.23 J																		
2012_02SIPMP	MW-29	MW-29	2/13/12	0.32																		
2012_05SIPMP	MW-29	MW-29	4/30/12	0.50 U																		
2012_08SIPMP	MW-29	MW-29	8/20/12	0.22 J																		
2012_11SIPMP	MW-29	MW-29	11/12/12	2.0																		
2013_02SIPMP	MW-29	MW-29	2/11/13	16 J																		
2013_06SIPMP	MW-29	MW-29	6/3/13	1.6																		
2013_08SIPMP	MW-29	MW-29	8/26/13	41																		
2013_12SIPMP	MW-29	MW-29	12/2/13	99																		
2014_03SIPMP	MW-29	MW-29	3/17/14	0.50 U																		
2014_06SIPMP	MW-29	MW-29	6/1/14	0.49 J																		
2014_09SIPMP	MW-29	MW-29	9/28/14	170.00																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-30	MW-30	1/10/08	0.08 U																		
2008_03	MW-30	MW-30	2/26/08	0.18 J																		
2008_SI	MW-30	MW-30	4/28/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-30	MW-30	7/28/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.007 J	0.007
2008_SI	MW-30	MW-30	10/21/08	0.08 U	0.019 U	0.0086 J	0.0034 U	0.0036 U	0.0034 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 J	0.019 U	0.0026 U	0.026 U	0.024 U	0.0042 J	0.0206
2009_SI	MW-30	MW-30	2/11/09	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-30	MW-30	5/4/09	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0028 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0044 J	0.0026 U	0.05 U	0.0054 J	0.0035 U	0.0126
2009_SI	MW-30	MW-30	8/3/09	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.024 U	0.005 U	0.0035 U	ND
2009_SI	MW-30	MW-30	11/16/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.011 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-30	MW-30	2/8/10	0.16 U	0.0042 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0091 U	0.0038 U	0.0026 U	0.039	0.005 U	0.0035 U	0.039
2010_05SIPMP	MW-30	MW-30	5/24/10	0.07 U	0.0064 J	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0049 J	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0043 J	0.013 J	0.005 U	0.0042 J	0.0328
2010_08SIPMP	MW-30	MW-30	8/17/10	0.12 J	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.031	0.005 U	0.0035 U	0.031
2010_11SIPMP	MW-30	MW-30	11/16/10	0.07 U	0.043 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.072	0.005 U	0.0035 U	0.072
2011_02SIPMP	MW-30	MW-30	2/8/11	0.14 J	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0032 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.021 U	0.005 U	0.0035 U	0.0032
2011_05SIPMP	MW-30	MW-30	5/16/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-30	MW-30	8/23/11	0.07 U																		
2011_11SIPMP	MW-30	MW-30	11/2/11	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.037 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-30	MW-30	2/13/12	0.20 U	0.0056 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 J	0.02 U	0.02 U	0.0246
2012_05SIPMP	MW-30	MW-30	5/1/12	0.50 U	0.0049 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0044 J	0.019 U	0.023	0.019 U	0.019 U	0.0323
2012_08SIPMP	MW-30	MW-30	8/19/12	0.50 U	0.0043 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.04	0.019 U	0.019 U	0.0443
2012_11SIPMP	MW-30	MW-30	11/12/12	0.50 U	0.0043 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.021 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-30	MW-30	2/10/13	0.50 U	0.0037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.014 J	0.019 U	0.019 U	0.0177
2013_06SIPMP	MW-30	MW-30	6/2/13	0.50 U	0.0047 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	ND
2013_08SIPMP	MW-30	MW-30	8/26/13	0.18 U	0.0048 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.10	0.0051 J	0.0053 U	0.1051
2013_12SIPMP	MW-30	MW-30	12/3/13	0.50 U	0.0072 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0043 J	0.019 U	0.08	0.0087 U	0.019 U	0.0803
2014_03SIPMP	MW-30	MW-30	3/17/14	0.50 U	0.0054 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-30	MW-30	6/2/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	ND
2014_09SIPMP	MW-30	MW-30	9/28/14	0.50 U	0.011 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0075 J	0.019 U	0.02 U	0.0075 J	0.019 U	0.026
2008_01	MW-31	MW-31	1/9/08	0.08 U																		
2008_03	MW-31	MW-31	2/26/08	0.35																		
2008_SI	MW-31	MW-31	4/28/08	0.39																		
2008_SI	MW-31	MW-31	7/28/08	0.18 J																		
2008_SI	MW-31	MW-31	10/21/08	0.42 U																		
2009_SI	MW-31	MW-31	2/11/09	0.33																		
2009_SI	MW-31	MW-31	5/5/09	0.46																		
2009_SI	MW-31	MW-31	8/3/09	0.16 U																		
2009_SI	MW-31	MW-31	11/17/09	0.16 U																		
2010_02SIPMP	MW-31	MW-31	2/8/10	0.16 U																		
2010_05SIPMP	MW-31	MW-31	5/24/10	0.083 J																		
2010_08SIPMP	MW-31	MW-31	8/16/10	0.07 U																		
2010_11SIPMP	MW-31	MW-31	11/16/10	0.36 J																		
2011_02SIPMP	MW-31	MW-31	2/8/11	0.32																		
2011_05SIPMP	MW-31	MW-31	5/16/11	0.61																		
2011_08SIPMP	MW-31	MW-31	8/23/11	0.085 J																		
2011_11SIPMP	MW-31	MW-31	11/2/11	0.084 J																		
2012_02SIPMP	MW-31	MW-31	2/13/12	0.20 U																		
2012_05SIPMP	MW-31	MW-31	5/1/12	0.50 U																		
2012_08SIPMP	MW-31	MW-31	8/19/12	0.50 U																		
2012_11SIPMP	MW-31	MW-31	11/11/12	0.50 U																		
2013_02SIPMP	MW-31	MW-31	2/11/13	0.50 U																		
2013_06SIPMP	MW-31	MW-31	6/3/13	0.50 U																		
2013_08SIPMP	MW-31	MW-31	8/26/13	0.25 J																		
2013_12SIPMP	MW-31	MW-31	12/2/13	0.50 N																		
2014_03SIPMP	MW-31	MW-31	3/16/14	0.29 N																		
2014_06SIPMP	MW-31	MW-31	6/1/14	0.19 J																		
2014_09SIPMP	MW-31	MW-31	9/28/14	0.29 J																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-32	MW-32	1/10/08	1,700																		
2008_03	MW-32	MW-32	2/27/08	120																		
2008_SI	MW-32	MW-32	4/29/08	180																		
2008_SI	MW-32	MW-32	7/29/08	290																		
2008_SI	MW-32	MW-32	10/21/08	390																		
2009_SI	MW-32	MW-32	2/11/09	200																		
2009_SI	MW-32	MW-32	5/5/09	950																		
2009_SI	MW-32	MW-32	8/4/09	1,000																		
2009_SI	MW-32	MW-32	11/17/09	1,200																		
2010_02SIPMP	MW-32	MW-32	2/9/10	810																		
2010_05SIPMP	MW-32	MW-32	5/25/10	800																		
2010_08SIPMP	MW-32	MW-32	8/18/10	700																		
2010_11SIPMP	MW-32	MW-32	11/17/10	1,000																		
2011_02SIPMP	MW-32	MW-32	2/9/11	140																		
2011_05SIPMP	MW-32	MW-32	5/17/11	83																		
2011_08SIPMP	MW-32	MW-32	8/23/11	170																		
2011_11SIPMP	MW-32	MW-32	11/3/11	700																		
2012_02SIPMP	MW-32	MW-32	2/14/12	3,400																		
2012_05SIPMP	MW-32	MW-32	4/30/12	94																		
2012_08SIPMP	MW-32	MW-32	8/20/12	76																		
2012_11SIPMP	MW-32	MW-32	11/12/12	1,500																		
2013_02SIPMP	MW-32	MW-32	2/11/13	83 J																		
2013_06SIPMP	MW-32	MW-32	6/3/13	150																		
2013_08SIPMP	MW-32	MW-32	8/25/13	570																		
2013_12SIPMP	MW-32	MW-32	12/1/13	1200																		
2014_03SIPMP	MW-32	MW-32	3/16/14	510																		
2014_06SIPMP	MW-32	MW-32	6/1/14	220																		
2014_09SIPMP	MW-32	MW-32	9/28/14	480																		
2008_01	MW-33	MW-33	1/10/08	50																		
2008_03	MW-33	MW-33	2/26/08	400																		
2008_SI	MW-33	MW-33	4/29/08	3.0																		
2008_SI	MW-33	MW-33	7/29/08	140																		
2008_SI	MW-33	MW-33	10/21/08	250																		
2009_SI	MW-33	MW-33	2/11/09	26 J																		
2009_SI	MW-33	MW-33	5/5/09	0.16 U																		
2009_SI	MW-33	MW-33	8/4/09	610																		
2009_SI	MW-33	MW-33	11/17/09	490																		
2010_02SIPMP	MW-33	MW-33	2/9/10	0.16 U																		
2010_05SIPMP	MW-33	MW-33	5/25/10	0.34 U																		
2010_08SIPMP	MW-33	MW-33	8/17/10	25																		
2010_11SIPMP	MW-33	MW-33	11/17/10	88																		
2011_02SIPMP	MW-33	MW-33	2/9/11	12																		
2011_05SIPMP	MW-33	MW-33	5/17/11	0.07 U																		
2011_08SIPMP	MW-33	MW-33	8/24/11	0.07 U																		
2011_11SIPMP	MW-33	MW-33	11/2/11	5.9																		
2012_02SIPMP	MW-33	MW-33	2/14/12	51																		
2012_05SIPMP	MW-33	MW-33	4/30/12	0.50 U																		
2012_08SIPMP	MW-33	MW-33	8/20/12	0.50																		
2012_11SIPMP	MW-33	MW-33	11/12/12	38																		
2013_02SIPMP	MW-33	MW-33	2/11/13	0.50 U																		
2013_06SIPMP	MW-33	MW-33	6/3/13	0.50 U																		
2013_08SIPMP	MW-33	MW-33	8/25/13	8.3																		
2013_12SIPMP	MW-33	MW-33	12/2/13	12																		
2014_03SIPMP	MW-33	MW-33	3/17/14	17																		
2014_03SIPMP	MW-33	MW-44	3/17/14	21																		
2014_06SIPMP	MW-33	MW-33	6/1/14	0.50 U																		
2014_06SIPMP	MW-33	MW-49	6/1/14	0.50 U																		
2014_09SIPMP	MW-33	MW-33	9/28/14	23.00																		
2014_09SIPMP	MW-33	MW-45	9/28/14	21.00																		

TABLE 4A
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Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-34	MW-34	1/10/08	1,200																		
2008_03	MW-34	MW-34	2/26/08	1,900																		
2008_SI	MW-34	MW-34	4/28/08	320																		
2008_SI	MW-34	MW-34	7/28/08	39																		
2008_SI	MW-34	MW-34	10/20/08	270																		
2009_SI	MW-34	MW-34	2/11/09	0.16 U																		
2009_SI	MW-34	MW-34	5/5/09	0.16 U																		
2009_SI	MW-34	MW-34	8/4/09	23																		
2009_SI	MW-34	MW-34	11/17/09	9.0																		
2010_02SIPMP	MW-34	MW-34	2/9/10	0.28 J																		
2010_05SIPMP	MW-34	MW-34	5/24/10	0.20 J																		
2010_08SIPMP	MW-34	MW-34	8/17/10	250																		
2010_11SIPMP	MW-34	MW-34	11/16/10	3.0																		
2011_02SIPMP	MW-34	MW-34	2/8/11	0.07 U																		
2011_05SIPMP	MW-34	MW-34	5/17/11	50																		
2011_08SIPMP	MW-34	MW-34	8/23/11	0.07 U																		
2011_11SIPMP	MW-34	MW-34	11/2/11	2.0																		
2012_02SIPMP	MW-34	MW-34	2/13/12	59																		
2012_05SIPMP	MW-34	MW-34	4/30/12	820																		
2012_08SIPMP	MW-34	MW-34	8/19/12	12 U																		
2012_11SIPMP	MW-34	MW-34	11/12/12	220																		
2013_02SIPMP	MW-34	MW-34	2/11/13	590 J																		
2013_06SIPMP	MW-34	MW-34	6/3/13	190																		
2013_08SIPMP	MW-34	MW-34	8/26/13	180																		
2013_12SIPMP	MW-34	MW-34	12/2/13	590																		
2014_03SIPMP	MW-34	MW-34	3/17/14	110																		
2014_06SIPMP	MW-34	MW-34	6/1/14	270																		
2014_09SIPMP	MW-34	MW-34	9/28/14	900																		
2008_01	MW-35	MW-35	1/8/08	0.08 U	0.0026 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0077 J	0.005 U	0.0035 U	0.0103
2008_SI	MW-35	MW-35	4/29/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-35	MW-35	7/29/08	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2008_SI	MW-35	MW-35	10/21/08	0.08 U																		
2009_SI	MW-35	MW-35	2/10/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	5/5/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	8/4/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	11/17/09	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.1 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-35	MW-35	2/9/10	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.039	0.005 U	0.0035 U	0.039
2010_05SIPMP	MW-35	MW-35	5/25/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.052	0.005 U	0.0035 U	0.052
2010_08SIPMP	MW-35	MW-35	8/18/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.065	0.005 U	0.0035 U	0.065
2010_11SIPMP	MW-35	MW-35	11/17/10	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.021 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-35	MW-35	2/9/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-35	MW-35	5/16/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.023 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-35	MW-35	8/23/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-35	MW-35	11/2/11	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.07 U	0.005 U	0.0035 U	ND
2012_02SIPMP	MW-35	MW-35	2/13/12	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.029	0.02 U	0.02 U	0.029
2012_05SIPMP	MW-35	MW-35	4/30/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 J	0.019 U	0.019 U	0.0227
2012_08SIPMP	MW-35	MW-35	8/20/12	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.063	0.019 U	0.019 U	0.063
2012_11SIPMP	MW-35	MW-35	11/12/12	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.012 U	0.02 U	0.02 U	ND
2013_02SIPMP	MW-35	MW-35	2/11/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 J	0.019 U	0.019 U	0.024
2013_06SIPMP	MW-35	MW-35	6/3/13	0.50 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 U	0.02 U	0.02 U	ND
2013_08SIPMP	MW-35	MW-35	8/25/13	0.23 U																		
2013_12SIPMP	MW-35	MW-35	12/1/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.054	0.0098 U	0.019 U	0.054
2014_03SIPMP	MW-35	MW-35	3/16/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.033	0.019 U	0.019 U	0.033
2014_06SIPMP	MW-35	MW-35	6/1/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.019
2014_09SIPMP	MW-35	MW-35	9/28/14	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.025	0.019 U	0.019 U	0.025

TABLE 4A
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Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2008_01	MW-36	MW-36	1/8/08	270	0.0035 J	0.012 J	0.0073 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0091 J	0.005 U	0.0035 U	0.0319
2008_SI	MW-36	MW-36	4/28/08	130	0.0023 U	0.0044 U	0.0043 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0043
2008_SI	MW-36	MW-36	7/28/08	98	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-36	MW-36	10/21/08	63	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	2/9/09	29	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	5/5/09	25	0.0023 U	0.0044 U	0.0034 U	0.0061 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0061
2009_SI	MW-36	MW-36	8/4/09	27	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	11/17/09	25	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-36	MW-36	2/9/10	2.0	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.022	0.005 U	0.0035 U	0.022
2010_05SIPMP	MW-36	MW-36	5/25/10	37	0.0027 J	0.0044 U	0.005 J	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.042 U	0.005 U	0.0035 U	0.0077
2010_08SIPMP	MW-36	MW-36	8/17/10	29	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0031 J	0.005 U	0.0062 J	0.0093
2010_11SIPMP	MW-36	MW-36	11/16/10	30	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.043 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-36	MW-36	2/8/11	69	0.0023 U	0.0048 J	0.0034 U	0.0076 J	0.0083 J	0.0043 U	0.0058 J	0.0036 J	0.0044 J	0.0084 J	0.0025 U	0.0074 J	0.0038 U	0.0027 J	0.023 U	0.0067 J	0.0089 J	0.0686
2011_05SIPMP	MW-36	MW-36	5/15/11	90	0.0023 U	0.0044 U	0.0034 U	0.0073 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.0073
2011_08SIPMP	MW-36	MW-36	8/22/11	55	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-36	MW-36	11/1/11	59	0.02 U	0.0044 U	0.0034 U	0.007 J	0.0026 U	0.017 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0057 J	0.0026 U	0.051 U	0.012 U	0.0035 U	0.0127
2012_02SIPMP	MW-36	MW-36	2/12/12	73	0.0027 J	0.02 U	0.02 U	0.0089 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.051	0.02 U	0.02 U	0.0826
2012_05SIPMP	MW-36	MW-36	4/29/12	200 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.019
2012_08SIPMP	MW-36	MW-36	8/19/12	140	0.02 U	0.02 U	0.02 U	0.0067 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0039 J	0.02 U	0.02 U	0.02 U	0.02 U	0.0106
2012_11SIPMP	MW-36	MW-36	11/11/12	110	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-36	MW-36	2/10/13	260 J	0.0043 J	0.019 U	0.019 U	0.012 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0056 J	0.019 U	0.0068 J	0.019 U	0.019 U	0.0287
2013_06SIPMP	MW-36	MW-36	6/3/13	230	0.02 U	0.02 U	0.02 U	0.014 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0066 U	0.02 U	0.024 U	0.02 U	0.02 U	0.014
2013_08SIPMP	MW-36	MW-36	8/25/13	130																		
2013_12SIPMP	MW-36	MW-36	12/1/13	120	0.0039 U	0.019 U	0.019 U	0.017 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0084 J	0.019 U	0.054	0.0087 U	0.019 U	0.0794
2014_03SIPMP	MW-36	MW-36	3/16/14	150	0.0034 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.029	0.019 U	0.019 U	0.0324
2014_06SIPMP	MW-36	MW-36	6/2/14	130	0.019 U	0.019 U	0.019 U	0.011 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.03
2014_09SIPMP	MW-36	MW-36	9/29/14	120	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.016 J	0.019 U	0.019 U	0.016
2008_01	MW-37	MW-37	1/8/08	770	0.011 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.37	0.005 U	0.0035 U	0.381
2008_03	MW-37	MW-37	2/26/08	1,100																		
2008_SI	MW-37	MW-37	4/29/08	1,000	0.073	0.0044 U	0.016 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.5	0.005 U	0.0035 U	1.589
2008_SI	MW-37	MW-37	7/29/08	760	0.02 U	0.0044 U	0.0034 U	0.022	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.14	0.005 U	0.0035 U	0.162
2008_SI	MW-37	MW-37	10/20/08	250	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0083 J	0.005 U	0.0035 U	0.0083
2009_SI	MW-37	MW-37	2/10/09	770	0.037 U	0.0045 J	0.012 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.1	0.005 U	0.0035 U	1.1165
2009_SI	MW-37	MW-37	5/5/09	750	0.051	0.0044 U	0.011 J	0.016 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.2	0.005 U	0.0035 U	1.278
2009_SI	MW-37	MW-37	8/3/09	320 J	0.0023 U	0.0044 U	0.0034 U	0.011 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.011
2009_SI	MW-37	MW-37	11/17/09	160	0.0023 U	0.0044 U	0.0034 U	0.011 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.046 U	0.005 U	0.0035 U	0.011
2010_02SIPMP	MW-37	MW-37	2/9/10	390	0.02 U	0.0044 U	0.0065 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.36	0.005 U	0.0035 U	0.3665
2010_05SIPMP	MW-37	MW-37	5/25/10	340	0.0023 U	0.0044 U	0.0069 J	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047 U	0.005 U	0.0035 U	0.0069
2010_08SIPMP	MW-37	MW-37	8/17/10	150	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 J	0.005 U	0.0035 U	0.019
2010_11SIPMP	MW-37	MW-37	11/16/10	110	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.026 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-37	MW-37	2/8/11	120	0.0023 U	0.0044 U	0.0034 U	0.008 J	0.0053 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0036 J	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.0169
2011_05SIPMP	MW-37	MW-37	5/16/11	38	0.0023 U	0.0044 U	0.0034 U	0.0036 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.039 U	0.005 U	0.0035 U	0.0036
2011_08SIPMP	MW-37	MW-37	8/23/11	16	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-37	MW-37	11/2/11	22	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.018 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0046 J	0.0026 U	0.039 U	0.011 U	0.0035 U	0.0046
2012_02SIPMP	MW-37	MW-37	2/13/12	50	0.02 U	0.02 U	0.0038 J	0.0049 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.0517
2012_05SIPMP	MW-37	MW-37	4/30/12	22	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.021	0.019 U	0.019 U	0.021
2012_08SIPMP	MW-37	MW-37	8/19/12	13	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.079	0.019 U	0.019 U	0.079
2012_11SIPMP	MW-37	MW-37	11/12/12	38	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0084 U	0.019 U	0.019 U	ND
2013_02SIPMP	MW-37	MW-37	2/10/13	0.50 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0027 J	0.0044 J	0.019 U	0.019 U	0.0071
2013_06SIPMP	MW-37	MW-37	6/2/13	0.50 U	0.02 U	0.02 U	0.02 U	0.0077 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 U	0.02 U	0.02 U	0.0077
2013_08SIPMP	MW-37	MW-37	8/26/13	4.2																		
2013_12SIPMP	MW-37	MW-37	12/2/13	24	0.019 U	0.019 U	0.019 U	0.01 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.063 U	0.019 U	0.019 U	0.01
2014_03SIPMP	MW-37	MW-37	3/17/14	64	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.033 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-37	MW-37	6/2/14	41	0.019 U	0.019 U	0.019 U	0.0058 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.0248
2014_09SIPMP	MW-37	MW-37	9/29/14	65	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.02	0.019 U	0.019 U	0.02

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2010_08SIPMP	MW-38	MW-38	8/17/10	0.21																		
2010_11SIPMP	MW-38	MW-38	11/16/10	0.07 U																		
2011_02SIPMP	MW-38	MW-38	2/8/11	0.07 U																		
2011_05SIPMP	MW-38	MW-38	5/17/11	0.07 U																		
2011_08SIPMP	MW-38	MW-38	8/23/11	0.07 U																		
2011_11SIPMP	MW-38	MW-38	11/2/11	0.07 U																		
2012_02SIPMP	MW-38	MW-38	2/13/12	0.02 U																		
2012_05SIPMP	MW-38	MW-38	4/30/12	2.3																		
2012_08SIPMP	MW-38	MW-38	8/19/12	0.50 U																		
2012_11SIPMP	MW-38	MW-38	11/12/12	0.50 U																		
2013_02SIPMP	MW-38	MW-38	2/11/13	0.39 J																		
2013_06SIPMP	MW-38	MW-38	6/3/13	0.50 U																		
2013_08SIPMP	MW-38	MW-38	8/26/13	0.19 U																		
2013_12SIPMP	MW-38	MW-38	12/2/13	0.42 N																		
2014_03SIPMP	MW-38	MW-38	3/17/14	0.5 U																		
2014_06SIPMP	MW-38	MW-38	6/1/14	0.5 U																		
2014_09SIPMP	MW-38	MW-38	9/28/14	0.50 U																		
2010_08SIPMP	MW-39	MW-39	8/17/10	130																		
2010_11SIPMP	MW-39	MW-39	11/16/10	120																		
2011_02SIPMP	MW-39	MW-39	2/8/11	120																		
2011_05SIPMP	MW-39	MW-39	5/16/11	120																		
2011_08SIPMP	MW-39	MW-39	8/23/11	110																		
2011_11SIPMP	MW-39	MW-39	11/2/11	120																		
2012_02SIPMP	MW-39	MW-39	2/13/12	130																		
2012_05SIPMP	MW-39	MW-39	5/1/12	120																		
2012_08SIPMP	MW-39	MW-39	8/19/12	94																		
2012_11SIPMP	MW-39	MW-39	11/12/12	120																		
2013_02SIPMP	MW-39	MW-39	2/10/13	93 J																		
2013_06SIPMP	MW-39	MW-39	6/2/13	95																		
2013_08SIPMP	MW-39	MW-39	8/26/13	84																		
2013_12SIPMP	MW-39	MW-39	12/2/13	58																		
2014_03SIPMP	MW-39	MW-39	3/17/14	150																		
2014_06SIPMP	MW-39	MW-39	6/2/14	NA																		
2014_09SIPMP	MW-39	MW-39	9/29/14	120																		
2010_08SIPMP	MW-40	MW-40	8/17/10	260																		
2010_11SIPMP	MW-40	MW-40	11/16/10	150																		
2011_02SIPMP	MW-40	MW-40	2/8/11	390																		
2011_05SIPMP	MW-40	MW-40	5/16/11	420																		
2011_08SIPMP	MW-40	MW-40	8/22/11	400																		
2011_11SIPMP	MW-40	MW-40	11/1/11	210																		
2012_02SIPMP	MW-40	MW-40	2/12/12	160																		
2012_05SIPMP	MW-40	MW-40	4/29/12	220 J																		
2012_08SIPMP	MW-40	MW-40	8/19/12	410																		
2012_11SIPMP	MW-40	MW-40	11/11/12	200																		
2013_02SIPMP	MW-40	MW-40	2/10/13	180 J																		
2013_06SIPMP	MW-40	MW-40	6/2/13	350																		
2013_08SIPMP	MW-40	MW-40	8/26/13	470																		
2013_12SIPMP	MW-40	MW-40	12/2/13	510																		
2014_03SIPMP	MW-40	MW-40	3/17/14	450																		
2014_06SIPMP	MW-40	MW-40	6/1/14	560																		
2014_09SIPMP	MW-40	MW-40	9/29/14	290																		

TABLE 4A
Summary of Groundwater Sampling Analytical Results - 2008 through Third Quarter 2014
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Event	Station ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (calc)
				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	µg/L	µg/L	µg/L	µg/L
2010_08SIPMP	MW-41	MW-41	8/17/10	420																		
2010_11SIPMP	MW-41	MW-41	11/16/10	300																		
2011_02SIPMP	MW-41	MW-41	2/8/11	240																		
2011_05SIPMP	MW-41	MW-41	5/15/11	110																		
2011_08SIPMP	MW-41	MW-41	8/22/11	300																		
2011_11SIPMP	MW-41	MW-41	11/1/11	340																		
2012_02SIPMP	MW-41	MW-41	2/12/12	220																		
2012_05SIPMP	MW-41	MW-41	4/29/12	110 J																		
2012_08SIPMP	MW-41	MW-41	8/19/12	200																		
2012_11SIPMP	MW-41	MW-41	11/11/12	220																		
2013_02SIPMP	MW-41	MW-41	2/10/13	49 J																		
2013_06SIPMP	MW-41	MW-41	6/2/13	160	0.0043 U	0.02 U	0.02 U	0.0071 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.054	0.02 U	0.02 U	0.0611
2013_08SIPMP	MW-41	MW-41	8/25/13	340																		
2013_12SIPMP	MW-41	MW-41	12/1/13	310																		
2014_03SIPMP	MW-41	MW-41	3/16/14	340																		
2014_06SIPMP	MW-41	MW-41	6/2/14	320																		
2014_09SIPMP	MW-41	MW-41	9/29/14	410																		
2010_08SIPMP	MW-42	MW-42	8/16/10	1.2																		
2010_11SIPMP	MW-42	MW-42	11/15/10	1.2	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.04 U	0.005 U	0.0035 U	ND
2011_02SIPMP	MW-42	MW-42	2/7/11	2.2																		
2011_05SIPMP	MW-42	MW-42	5/16/11	14																		
2011_08SIPMP	MW-42	MW-42	8/23/11	17																		
2011_11SIPMP	MW-42	MW-42	11/2/11	11																		
2012_02SIPMP	MW-42	MW-42	2/13/12	0.071 NJ																		
2012_05SIPMP	MW-42	MW-42	5/1/12	0.50 U																		
2012_08SIPMP	MW-42	MW-42	8/20/12	12																		
2012_11SIPMP	MW-42	MW-42	11/12/12	13																		
2013_02SIPMP	MW-42	MW-42	2/11/13	44 J																		
2013_06SIPMP	MW-42	MW-42	6/3/13	0.50 U																		
2013_08SIPMP	MW-42	MW-42	8/26/13	3.4																		
2013_12SIPMP	MW-42	MW-42	12/2/13	5.6																		
2014_03SIPMP	MW-42	MW-42	3/17/14	5.4																		
2014_06SIPMP	MW-42	MW-42	6/2/14	7.9																		
2014_09SIPMP	MW-42	MW-42	9/29/14	6.5																		
2010_11SIPMP	MW-43	MW-43	11/15/10	0.07 U																		
2011_02SIPMP	MW-43	MW-43	2/8/11	0.078 J																		
2011_05SIPMP	MW-43	MW-43	5/16/11	0.13 J																		
2011_08SIPMP	MW-43	MW-43	8/23/11	0.07 U																		
2011_11SIPMP	MW-43	MW-43	11/2/11	0.07 U																		
2012_02SIPMP	MW-43	MW-43	2/13/12	0.099 NJ																		
2012_05SIPMP	MW-43	MW-43	5/3/12	0.50 U																		
2012_08SIPMP	MW-43	MW-43	8/20/12	0.50 U																		
2012_11SIPMP	MW-43	MW-43	11/13/12	0.50 U																		
2013_02SIPMP	MW-43	MW-43	2/11/13	0.50 U																		
2013_06SIPMP	MW-43	MW-43	6/3/13	0.50 U																		
2013_08SIPMP	MW-43	MW-43	8/26/13	0.20 U																		
2013_12SIPMP	MW-43	MW-43	12/2/13	0.50 U																		
2014_03SIPMP	MW-43	MW-43	3/17/14	0.50 U																		
2014_06SIPMP	MW-43	MW-43	6/2/14	0.50 U																		
2014_09SIPMP	MW-43	MW-43	9/29/14	0.50 U																		

Notes:

NA = These sample bottles arrived at laboratory broken and could not be analyzed.

µg/L = micrograms per liter

i = The MRL/MDL is elevated due to a chromatographic interference

J = estimated value

N = The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

ND = not detected

NJ = The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

U = undetected at the detection limit shown

TABLE 4B

Concentrations of PCP and PCP Degradation Products from Extraction Well Composite Samples[1,2]
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Concentrations shown in micrograms per liter (µg/L)

Analyte					
	8/26/2013[5]	12/2/2013[5]	3/17/2014[5]	6/2/2014[6]	9/28/2014[5]
Pentachlorophenol	530	630	340	51	790
2,4,5-Trichlorophenol	ND	ND	ND	ND	0.24J
2,4,6-Trichlorophenol	ND	ND	ND	0.20J	ND
2,3,4,6-Tetrachlorophenol	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	--	--	--	--	--
3,4-Dichlorophenol	--	--	--	--	--
3,5-Dichlorophenol	--	--	--	--	--
Total Tetrachlorophenols[3]	18 J	21	15	29	31

Notes

1. PCP analysis by EPA method 8151M; the composite samples do not include groundwater
2. The composite samples do not include groundwater from EW-1, EW-5 through EW-7. Extraction wells EW-1, EW-5, and EW-6 were previously shut down due to a recurring high water level condition in the infiltration trench. EW-7 was shut down and discontinued with approval from the EPA in 2010. EW-3 was shut down during the second quarter 2013 and was off during sample collection.
3. Total tetrachlorophenols comprises multiple tetrachlorophenol isomers, including 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol.
4. Sample contains water from EW-2, EW-3, and EW-4.
5. Sample contains water from EW-2 and EW-4.
6. Sample contains water from EW-4 only.

Abbreviations

EPA = United States Environmental Protection Agency
ND = not detected at method detection limit
PCP = pentachlorophenol
J = The result is an estimated value.
-- = Analysis not performed for constituent.

TABLE 4C
Analytical Results for Pentachlorophenol and Breakdown Products from Extraction Well Composite Samples
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichloro-phenol		2,4,6-Trichloro-phenol		2,3,4,6-Tetrachloro-phenol		2,3,5,6-Tetrachloro-phenol		Total Tetrachlorophenols		3,4-Dichlorophenol		3,5-Dichlorophenol		Pentachlorophenol		Comment
		8270C SIM		8270C SIM		8270C SIM		8270C SIM		8151M		8151M		8151M		8151M		
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		
EWCOMP030509	3/5/2009	1.0	U	1.0	U	15.0		2.0								430		
EWCOMP040209	4/2/2009	1.0	U	1.0	U	15.0		2.5								180		
EWCOMP052609	5/26/2009	1.1	U	1.1	U	12.0		2.0								240		
EWCOMP070709	7/7/2009	1.0	U	1.0	U	9.1		1.2								190		
EW-1-EW-7	8/5/2009	0.98	U	0.98	U	8.9		1.3								240		PCP from Method 8270D
EWCOMP082709	8/27/2009	1.0	U	1.0	U	7.1		1.0								180		
EWCOMP093009	9/30/2009	1.0	U	1.0	U	9.4		1.4								230		EW 1- EW 6 only
EW-1-EW-6	11/19/2009	0.96	U	0.96	U	10.0		1.9								450		EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP122809	12/28/2009	1.0	U	1.0	U	15.0		1.8								490		EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP12610	1/26/2010	0.99	U	0.99	U	16.0		1.8								470		EW 1- EW 6 only; analysis by 8270D SIM
EW1-7	2/11/2010	1.1	U	1.1	U	8.9		1.2								270		Analysis by 8270D SIM
EWCOMP32410	3/24/2010	1.0	U	1.0	U	13.0		1.6								340		Analysis by 8270D SIM
EWCOMP42910	4/30/2010	1.1	U	1.1	U	11.0		1.4								320		Analysis by 8270D
EW1-7	5/27/2010	0.96	U	0.96	U	5.2		1.0								110		Analysis by 8270D
EWCOMP63010	6/30/2010	1.1	U	1.1	U	11.0		1.8								320		EW1-EW3 & EW5-EW7, Analysis by 8270D SIM
EW1-7	8/19/2010	0.95	U	0.95	U	13.0		2.0								300		Analysis by 8270D
EW1-6	12/7/2010	0.97	U	0.97	U	9.5		1.5								540		Analysis by 8270D
Extraction Well Composite	2/12/2011	0.96	U	0.96	U	32.0		10.0								560		EW 1- EW 6 only; Analysis by 8270D
EW1-4 Composite	5/18/2011	0.099	U	0.06	J					12	U	0.50	U	0.74	U	320		EW 1- EW 4 only; Analysis by 8151M
EW1-4	8/25/2011	0.099	U	0.13	J					28						710		EW 1- EW 4 only; Analysis by 8151M
EW1-4	11/3/2011	0.099	U	0.11	J					33	U					710		EW 1- EW 4 only; Analysis by 8151M
EW1-4	2/14/2012	0.099	U	0.11	J					19	Ui					650		EW 1- EW 4 only; Analysis by 8151M
EW1-4	5/3/2012	1.000	U	0.16	NJ					39	J					770		EW 1- EW 4 only; Analysis by 8151M
EW2-4 COMP	8/20/2012	1.000	U	0.50	U					26	U					550		EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	11/12/2012	1.0	U	0.50	U					27	U					690		EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	2/11/2013	1.0	U	0.50	U					39	U					820	J	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	6/4/2013	1.0	U	0.50	U					2.4	U					590		EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	8/26/2013	0.19	U	0.14	U					18	J					530		EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	12/2/2013	1.0	U	0.50	U					21						630		EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	3/17/2014	1.0	U	0.50	U					15						340		EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	6/2/2014	1.0	U	0.20	J					29						51		EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/29/2014	0.24	J	0.50	U					31						790		EW 2 & EW 4 only; Analysis by 8151M

Notes:

µg/L = micrograms per liter
D = The reported result is from a dilution
i = The MRL/MDL is elevated due to a chromatographic interference
J = Estimated value between PQL and MDL
NJ = The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
U = Undetected above the listed detection limit

TABLE 4D
Analytical Results for Pentachlorophenol and Breakdown Products from Extraction Well Samples
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichloro-phenol 8270D SIM	2,4,6-Trichloro-phenol 8270D SIM	2,3,4,6-Tetrachloro-phenol 8270D SIM	2,3,5,6-Tetrachloro-phenol 8270D SIM	Pentachlorophenol 8270D SIM
		µg/L	µg/L	µg/L	µg/L	µg/L
EW-1	2/11/2010	1.0 U	1.0 U	7.5	2.4	200
EW-2	2/11/2010	1.0 U	1.0 U	30	4.6	640
EW-3	2/11/2010	1.0 U	1.0 U	40	4.2	1,400
EW-4	2/11/2010	1.0 U	1.0 U	5.7	1.0 U	450
EW-5	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
EW-6	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
EW-7	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U

Notes:
µg/L = micrograms per liter
U = Undetected above the listed detection limit

TABLE 5
Bacteriological Analysis Results for Heterotrophic Plate Count
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

Sample ID	Sample Date	Heterotrophic Plate Count SM 9215B CFU/mL	Comment
EW 1-7	5/25/2010	1	Analyzed by Spectra Laboratories, Tacoma, WA
MW-3	5/25/2010	ND	Analyzed by Spectra Laboratories, Tacoma, WA
MW-3	11/16/2010	1 U	Analyzed by Edge Analytical Laboratories, Burlington, WA
EW 1-6	12/7/2010	95	Analyzed by Edge Analytical Laboratories, Burlington, WA

Notes:
CFU/mL = Colony forming units per milliliter
ND = Not detected
U = Undetected above the listed detection limit

TABLE 6
Light Nonaqueous-Phase Liquid (LNAPL) Recovery
Former J.H. Baxter Co. Wood Treating Facility
Arlington, Washington

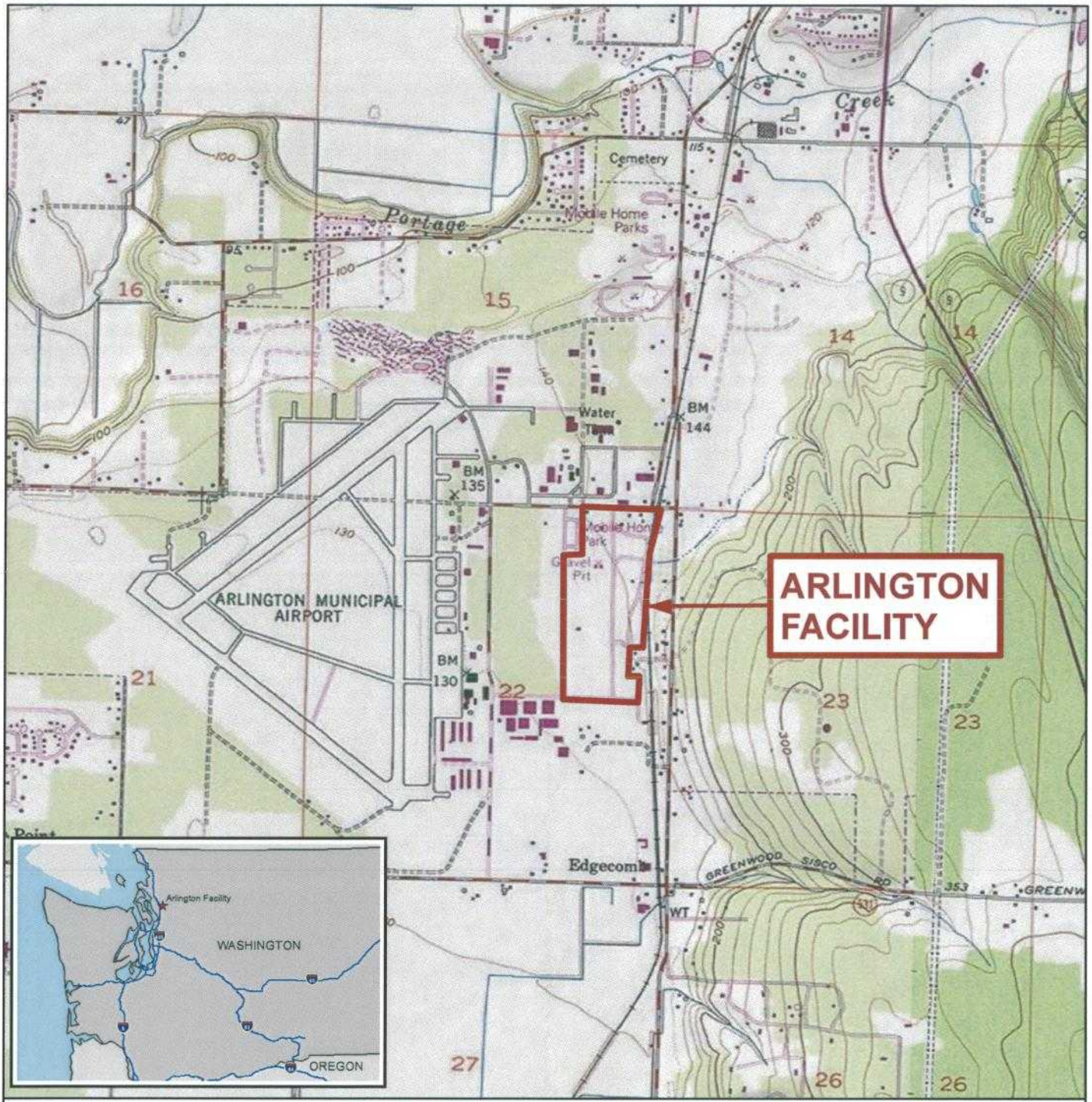
Date	Well ID	Weight (lbs)			Volume (Gallons)
		Total	Material	LNAPL	
4/7/2008	MW-12	2.24	0.53	1.71	0.20
6/2/2008	MW-12	2.34	0.53	1.81	0.22
7/28/2008	MW-12	2.14	0.54	1.60	0.19
9/26/2008	MW-12	1.90	0.46	1.44	0.17
11/24/2008	MW-12	2.22	0.54	1.68	0.20
1/7/2009	MW-13	2.12	0.56	1.56	0.19
3/5/2009	MW-12	2.35	0.64	1.71	0.20
4/1/2009	MW-12	2.58	0.64	1.94	0.23
5/27/2009	MW-12	2.76	0.68	2.08	0.25
11/19/2009	MW-12	NA	NA	1.82	0.22
12/28/2009	MW-12	2.64	0.66	1.98	0.24
1/25/2010	MW-12	2.48	0.64	1.84	0.22
3/23/2010	MW-12	2.6	0.66	1.94	0.23
4/28/2010	MW-12	2.68	0.64	2.04	0.24
6/29/2010	MW-12	2.52	0.64	1.88	0.22
10/19/2010	MW-13	1.49	0.64	0.85	0.10
10/19/2010	MW-12	1.8	0.64	1.16	0.14
2/10/2011	MW-12	2.19	0.56	1.63	0.19
5/18/2011	MW-12	2.56	0.64	1.92	0.23
5/18/2011	MW-13	1.9	0.45	1.45	0.17
5/18/2011	MW-19	1.8	0.63	1.17	0.14
5/18/2011	MW-21	1.59	0.58	1.01	0.12
8/24/2011	MW-12	2.07	0.63	1.44	0.17
11/3/2011	MW-12	2.27	0.61	1.66	0.20
2/15/2012	MW-12	1.89	0.64	1.25	0.15
5/2/2012	MW-12	2.45	0.64	1.81	0.22
8/20/2012	MW-12	1.08	0.47	0.61	0.07
11/13/2012	MW-12	NC	NC	0.00	0.00
2/12/2013	MW-12	2.38	0.41	1.97	0.23
6/3/2013	MW-12	1.91	0.58	1.33	0.16
8/26/2013	MW-12	0.93	0.20	0.73	0.09
12/3/2013	MW-12	0.98	0.33	0.65	0.08
3/17/2014	MW-12	2.14	0.32	1.82	0.22
6/2/2014	MW-12	2.13	0.30	1.83	0.22
9/29/2014	MW-12	1.16	0.32	0.84	0.10
TOTAL				**52.16**	**6.22**

Notes:

NA = Not analyzed

NC = No Change, water level low

FIGURES



0 1,000 2,000 4,000 Feet

AMEC 7376 SW Durham Road Portland, OR, U.S.A. 97224	amec	J.H. Baxter	CLIENT: J.H. BAXTER

TITLE: SITE VICINITY MAP	DWN BY: PM/SD	DATUM: NAD83	DATE: MARCH 2014
PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA	CHK'D BY: SB	REV. NO.: 1	PROJECT NO.: 461M125612.01.4
	PROJECTION: WA SP N. Ft.	SCALE: 1 inch = 2,000 feet	FIGURE NO.: 1

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 1 - Site Vicinity Map.mxd - stephane.descombes - 3/7/2014 - 11:24:52 AM

AERIAL: MAY 2009, GOOGLE

LEGEND

MW-1 ◇	MONITORING WELL
MW-12 ●	LNAPL RECOVERY WELL
EW-1 ■	EXTRACTION WELL AND VAULT IDENTIFYING NUMBER
— — —	APPROXIMATE SITE BOUNDARY
——	LAYOUT OF GROUNDWATER RECIRCULATION PIPING

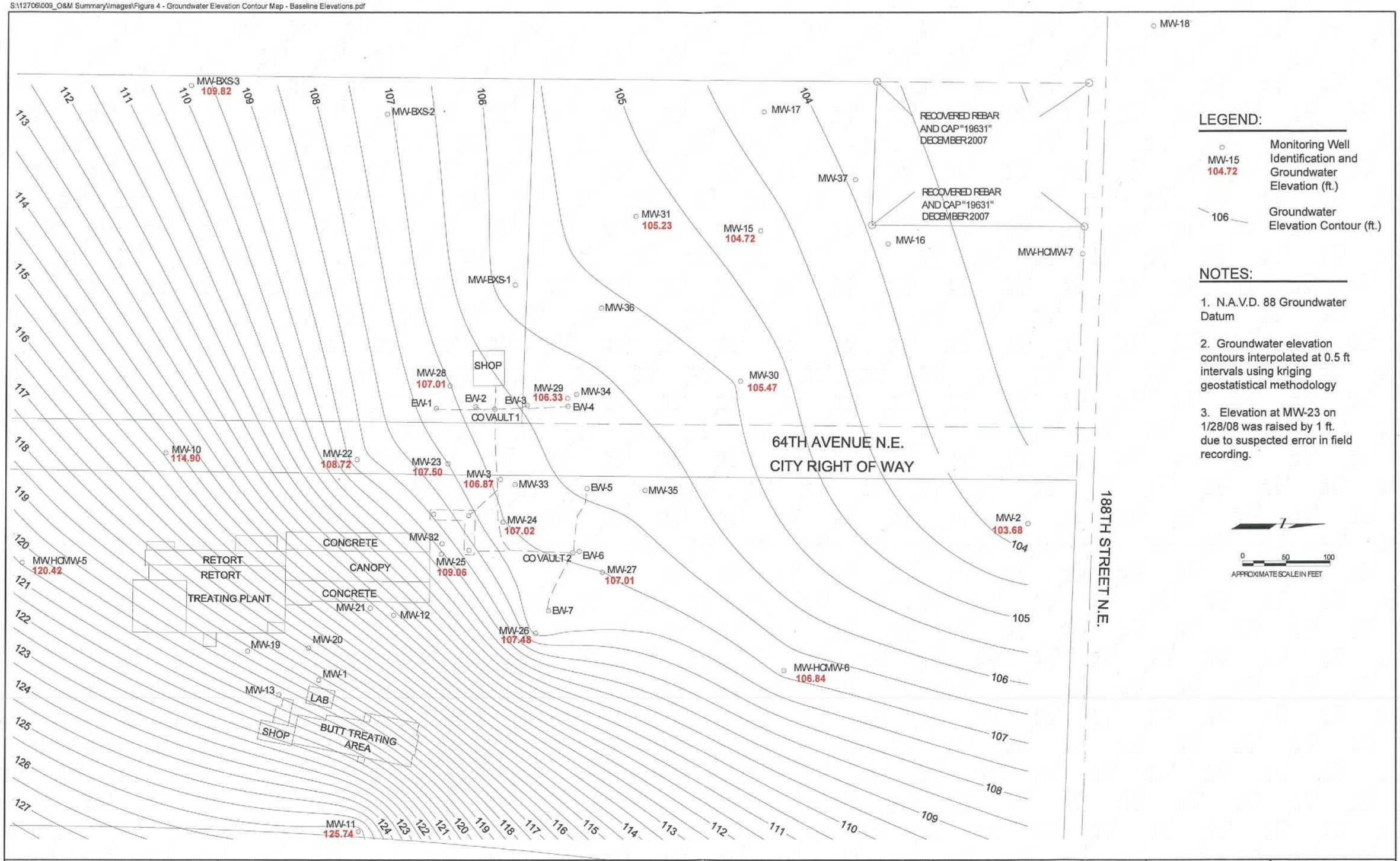
0 110 220
APPROXIMATE SCALE IN FEET

GROUNDWATER MONITORING NETWORK
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

By: APS	Date: 08/08/11	Project No. 0127060010
amec		Figure 2

Plot Date: 08/09/11 - 2:59pm, Plotted by: adam.ellenberg
Drawing Path: S:\127060\14_WellNetwork\, Drawing Name: Baxter_WellNetwork_080811.dwg

S:\12706\009_O&M Summary\Images\Figure 4 - Groundwater Elevation Contour Map - Baseline Elevations.pdf

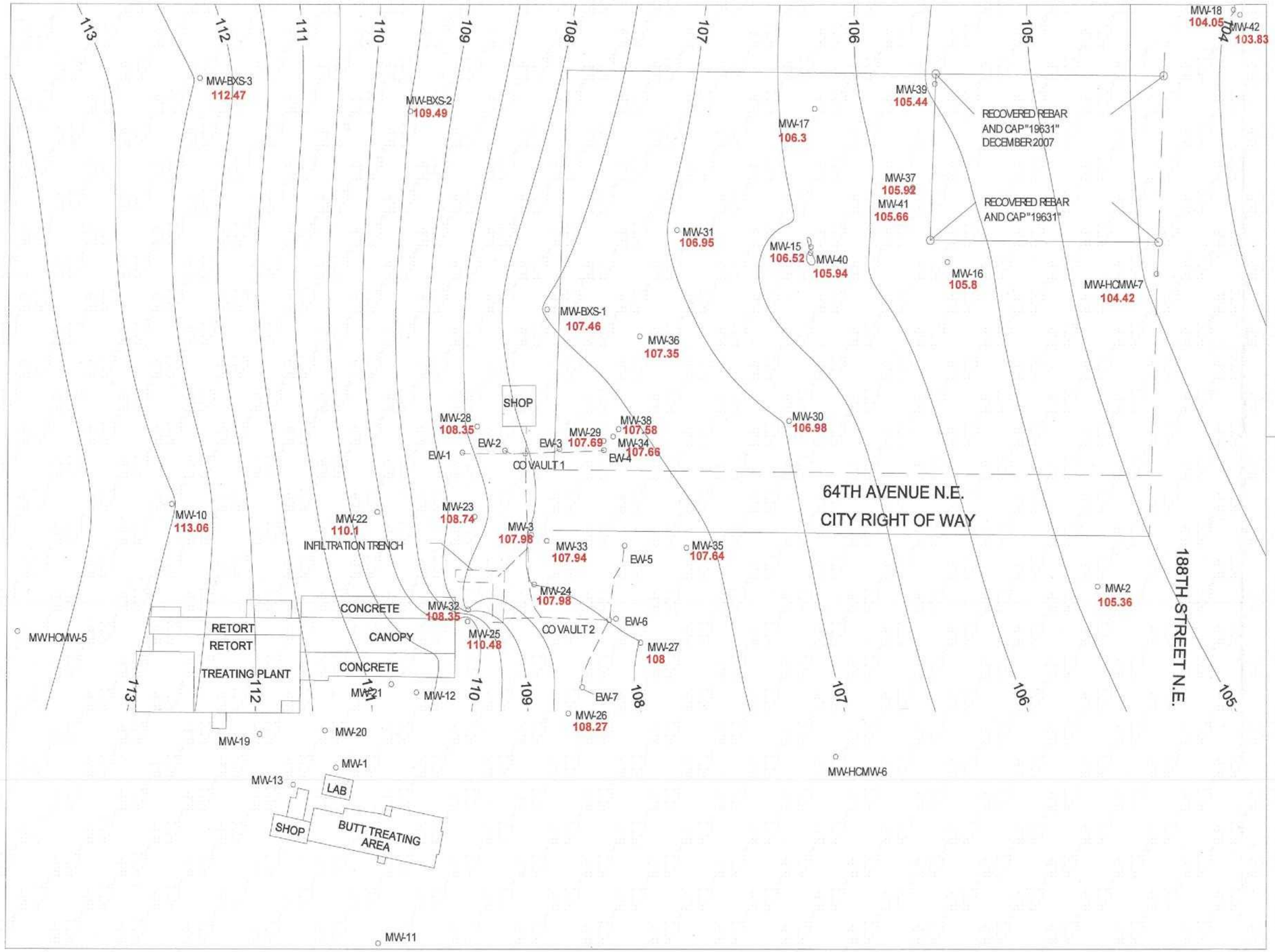


Geomatrix

January 28, 2008, GROUNDWATER ELEVATION CONTOUR MAP - BASELINE ELEVATIONS
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: RLW	Project No. 12706
Date: 04/21/08	Figure 3

P:\12706 - JH Baxter Arlington\3000 Reports\2014_Reporting\3Q14\Figures\Figure04 GW Contour 092914.pdf



LEGEND:

MW-17 109.85	Monitoring Well Identification and Groundwater Elevation (ft.)
108	Groundwater Elevation Contour (ft.)
EW-1	Extraction Well Identification
CO VAULT 1	Clean Out Vault Identification

NOTES:

1. N.A.V.D. 88 Groundwater Datum

2. Groundwater elevation contours interpolated at 0.5 ft intervals using kriging geostatistical methodology.

3. Monitoring wells without groundwater elevations were not used in development of contour lines due to deeper screen interval.

4. Wells MW-14 and MW-43 are located outside the area shown and were also used to generate contours.

5. Monitoring wells MW-12, MW-13, MW-19, MW-20, and MW-21 are used for LNAPL recovery.

6. For well pairs and well triplets, groundwater elevation from the well with the highest screen elevation was used for contouring.

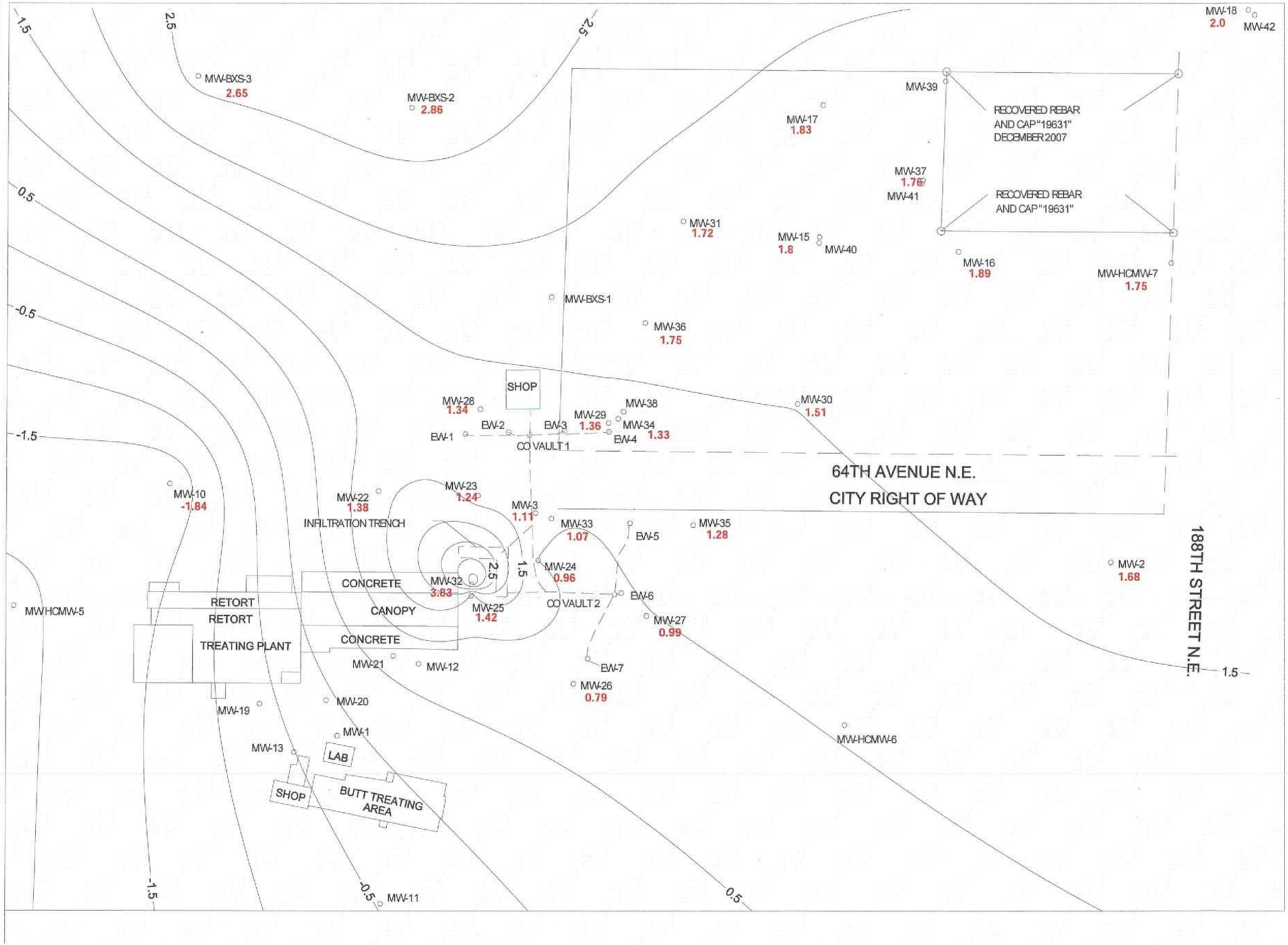
0 50 100
APPROXIMATE SCALE IN FEET

amec

THIRD QUARTER 2014 (SEPTEMBER 2014) GROUNDWATER ELEVATION CONTOUR MAP
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
Date: 11/17/2014	Figure 4

P:\12706 - JH Baxter Arlington\3000 Reports\2014_Reporting\3Q14\Figures\Figure05 GW Diff 092914.pdf



LEGEND:

MW-17 5.38	Monitoring Well Identification and Groundwater Differential (feet)
1.5	Groundwater Differential Contour (feet)
EW-1	Extraction Well Identification
CO VAULT 1	Clean Out Vault Identification

NOTES:

1. Vertical Datum is N.A.V.D. 88

2. Groundwater differential contours interpolated at 0.1 ft intervals using kriging geostatistical methodology.

3. Monitoring wells without groundwater elevations were not used in development of differential lines due to deeper screen interval.

4. Wells BXS-4, MW-4, and MW-14 are located outside the area shown and were also used to generate differentials.

5. Monitoring wells MW-12, MW-13, MW-19, MW-20, and MW-21 are used for LNAPL recovery.

6. Differential groundwater elevations were calculated by subtracting the measured elevations from the baseline elevations measured on January 28, 2008.

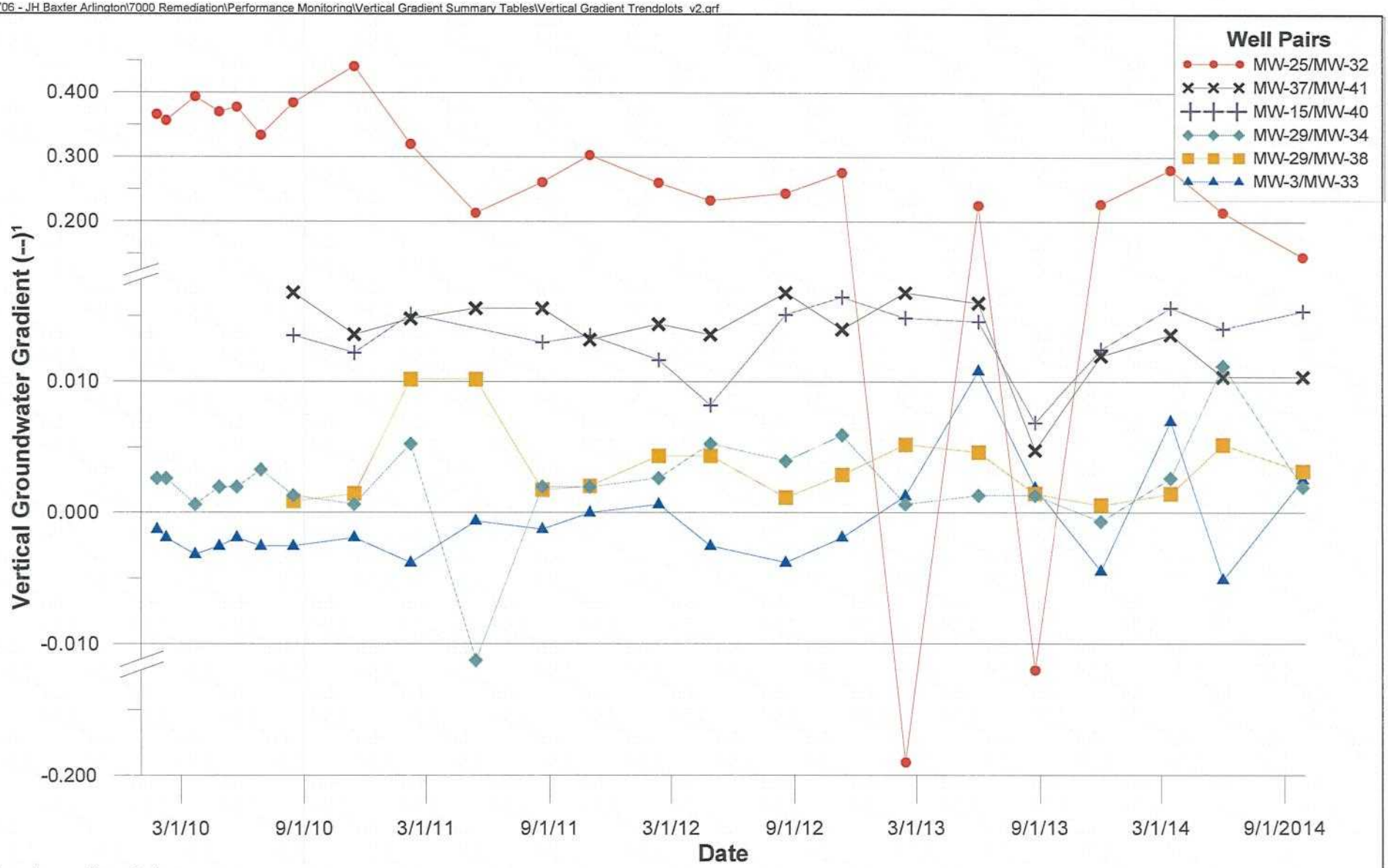
0 50 100
APPROXIMATE SCALE IN FEET

amec

THIRD QUARTER 2014 (SEPTEMBER 2014) GROUNDWATER DIFFERENTIAL CONTOUR MAP
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

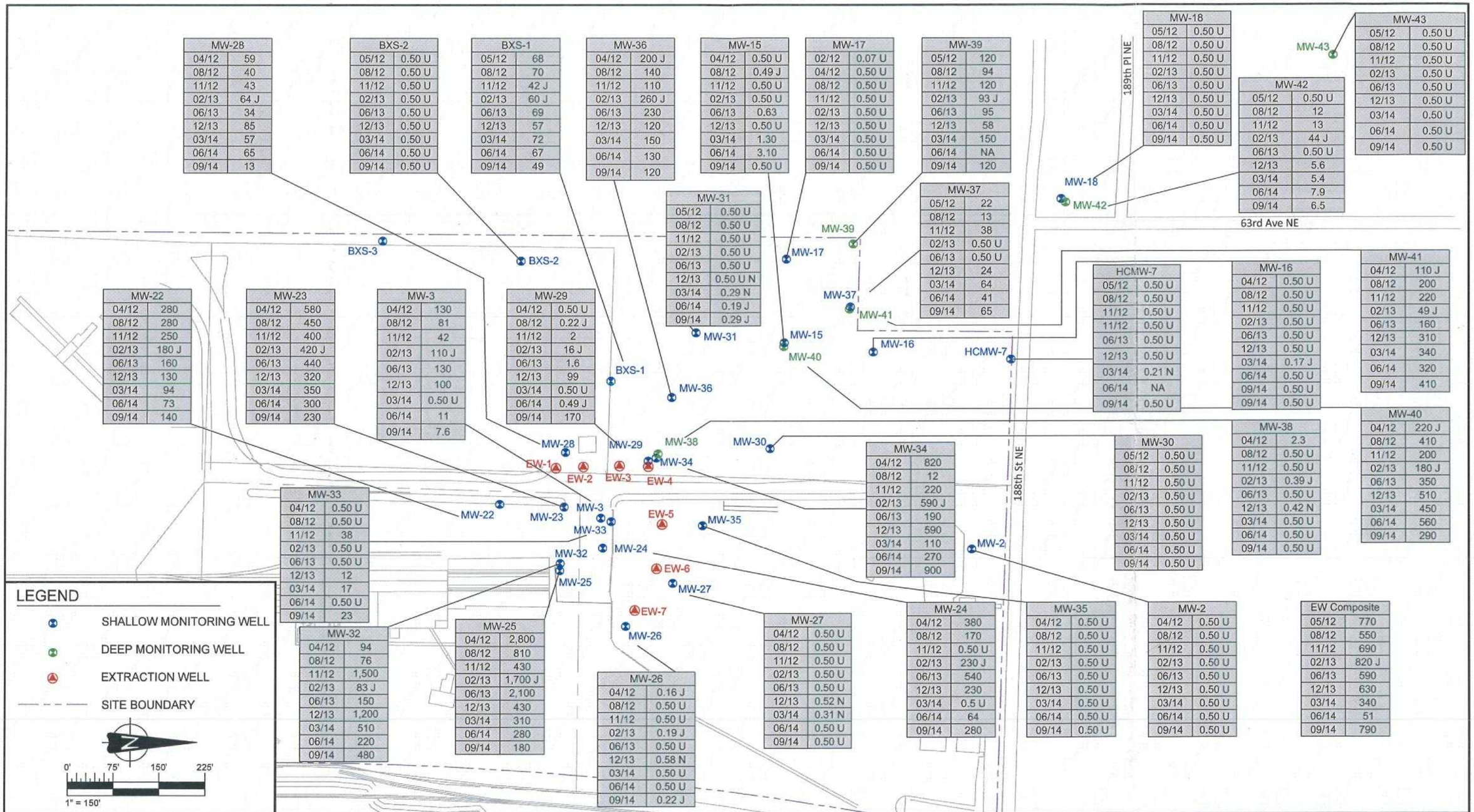
Prepared By: KJK	Project No. 12706
Date: 11/17/2014	Figure 5

P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Vertical Gradient Summary Tables\Vertical Gradient Trendplots_v2.grf



Notes: 1. -- = dimensionless
2. Vertical datum is N.A.V.D 88.
3. Gradients are calculated as shallower well groundwater elevation minus deeper well groundwater elevation divided by the distance between screen midpoints. Positive values indicate a downward flow direction, while negative values indicate an upward flow direction.

amec	VERTICAL GROUNDWATER GRADIENT TRENDS Former J.H. Baxter and Co. Wood Treating Facility Arlington, Washington	Prepared By: LCD 10/15/14	Project No. 12706 Figure No. 6



MW-28	
04/12	59
08/12	40
11/12	43
02/13	64 J
06/13	34
12/13	85
03/14	57
06/14	65
09/14	13

BXS-2	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

BXS-1	
05/12	68
08/12	70
11/12	42 J
02/13	60 J
06/13	69
12/13	57
03/14	72
06/14	67
09/14	49

MW-36	
04/12	200 J
08/12	140
11/12	110
02/13	260 J
06/13	230
12/13	120
03/14	150
06/14	130
09/14	120

MW-15	
04/12	0.50 U
08/12	0.49 J
11/12	0.50 U
02/13	0.50 U
06/13	0.63
12/13	0.50 U
03/14	1.30
06/14	3.10
09/14	0.50 U

MW-17	
02/12	0.07 U
04/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-39	
05/12	120
08/12	94
11/12	120
02/13	93 J
06/13	95
12/13	58
03/14	150
06/14	NA
09/14	120

MW-18	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-43	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-42	
05/12	0.50 U
08/12	12
11/12	13
02/13	44 J
06/13	0.50 U
12/13	5.6
03/14	5.4
06/14	7.9
09/14	6.5

MW-31	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U N
03/14	0.29 N
06/14	0.19 J
09/14	0.29 J

MW-37	
05/12	22
08/12	13
11/12	38
02/13	0.50 U
06/13	0.50 U
12/13	24
03/14	64
06/14	41
09/14	65

HCMW-7	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
11/12	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.21 N
06/14	NA
09/14	0.50 U

MW-16	
04/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.17 J
06/14	0.50 U
09/14	0.50 U
09/14	0.50 U

MW-41	
04/12	110 J
08/12	200
11/12	220
02/13	49 J
06/13	160
12/13	310
03/14	340
06/14	320
09/14	410

MW-22	
04/12	280
08/12	280
11/12	250
02/13	180 J
06/13	160
12/13	130
03/14	94
06/14	73
09/14	140

MW-23	
04/12	580
08/12	450
11/12	400
02/13	420 J
06/13	440
12/13	320
03/14	350
06/14	300
09/14	230

MW-3	
04/12	130
08/12	81
11/12	42
02/13	110 J
06/13	130
12/13	100
03/14	0.50 U
06/14	11
09/14	7.6

MW-29	
04/12	0.50 U
08/12	0.22 J
11/12	2
02/13	16 J
06/13	1.6
12/13	99
03/14	0.50 U
06/14	0.49 J
09/14	170

MW-34	
04/12	820
08/12	12
11/12	220
02/13	590 J
06/13	190
12/13	590
03/14	110
06/14	270
09/14	900

MW-30	
05/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-38	
04/12	2.3
08/12	0.50 U
11/12	0.50 U
02/13	0.39 J
06/13	0.50 U
12/13	0.42 N
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-40	
04/12	220 J
08/12	410
11/12	200
02/13	180 J
06/13	350
12/13	510
03/14	450
06/14	560
09/14	290

MW-33	
04/12	0.50 U
08/12	0.50 U
11/12	38
02/13	0.50 U
06/13	0.50 U
12/13	12
03/14	17
06/14	0.50 U
09/14	23

MW-32	
04/12	94
08/12	76
11/12	1,500
02/13	83 J
06/13	150
12/13	1,200
03/14	510
06/14	220
09/14	480

MW-25	
04/12	2,800
08/12	810
11/12	430
02/13	1,700 J
06/13	2,100
12/13	430
03/14	310
06/14	280
09/14	180

MW-26	
04/12	0.16 J
08/12	0.50 U
11/12	0.50 U
02/13	0.19 J
06/13	0.50 U
12/13	0.58 N
03/14	0.50 U
06/14	0.50 U
09/14	0.22 J

MW-27	
04/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.52 N
03/14	0.31 N
06/14	0.50 U
09/14	0.50 U

MW-24	
04/12	380
08/12	170
11/12	0.50 U
02/13	230 J
06/13	540
12/13	230
03/14	0.5 U
06/14	64
09/14	280

MW-35	
04/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

MW-2	
04/12	0.50 U
08/12	0.50 U
11/12	0.50 U
02/13	0.50 U
06/13	0.50 U
12/13	0.50 U
03/14	0.50 U
06/14	0.50 U
09/14	0.50 U

EW Composite	
05/12	770
08/12	550
11/12	690
02/13	820 J
06/13	590
12/13	630
03/14	340
06/14	51
09/14	790

NOTES:

J	Estimated Value
NA	Not Analyzed
N	Tentatively Identified Analyte
NJ	Tentatively Identified Analyte; Estimated Value
UNITS	• g/L
U	Undetected

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

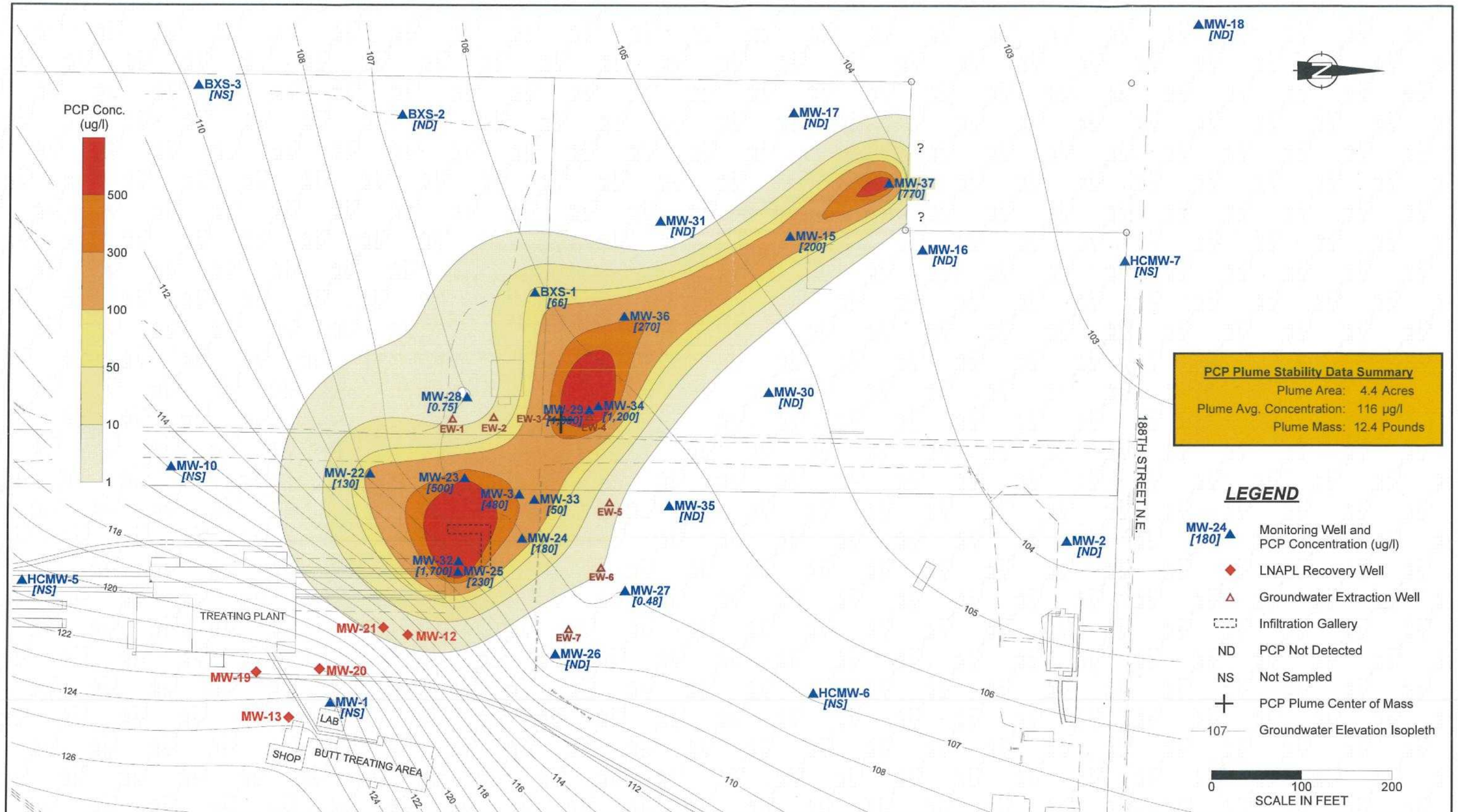
DWN BY: PM/SD
CHK'D BY: SB
DATUM: -
PROJECTION: -
SCALE: 1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL IN GROUNDWATER
APRIL 2012 - SEPTEMBER 2014

DATE: DECEMBER 2014
PROJECT NO.: 461M125612.01.4
REV. NO.: A
FIGURE NO.: 7

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 7-39 - 20143Q.dwg - -7 - Dec. 08, 2014 9:57am - patrick.mccarthy



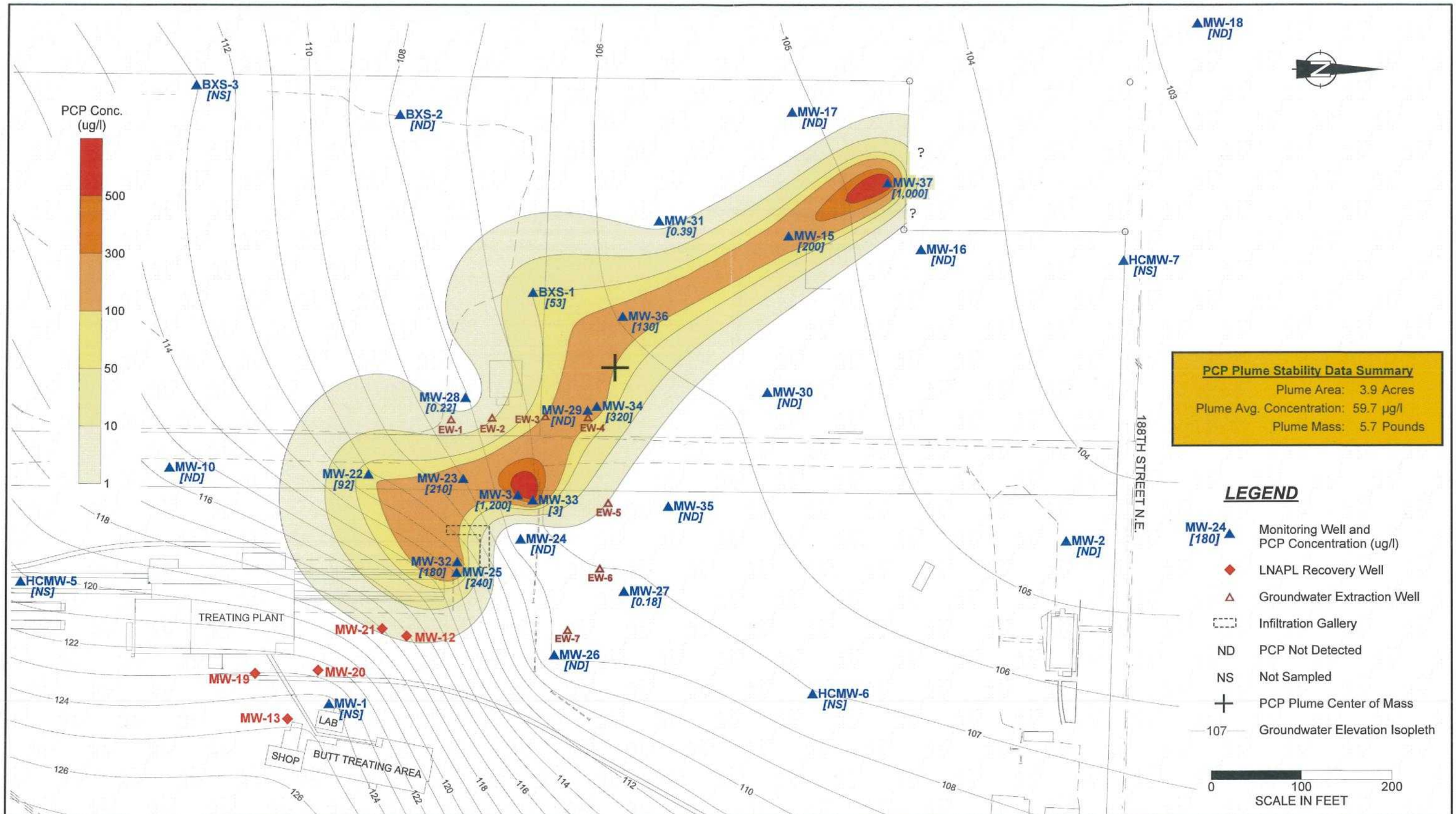
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - JANUARY 2008
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 8



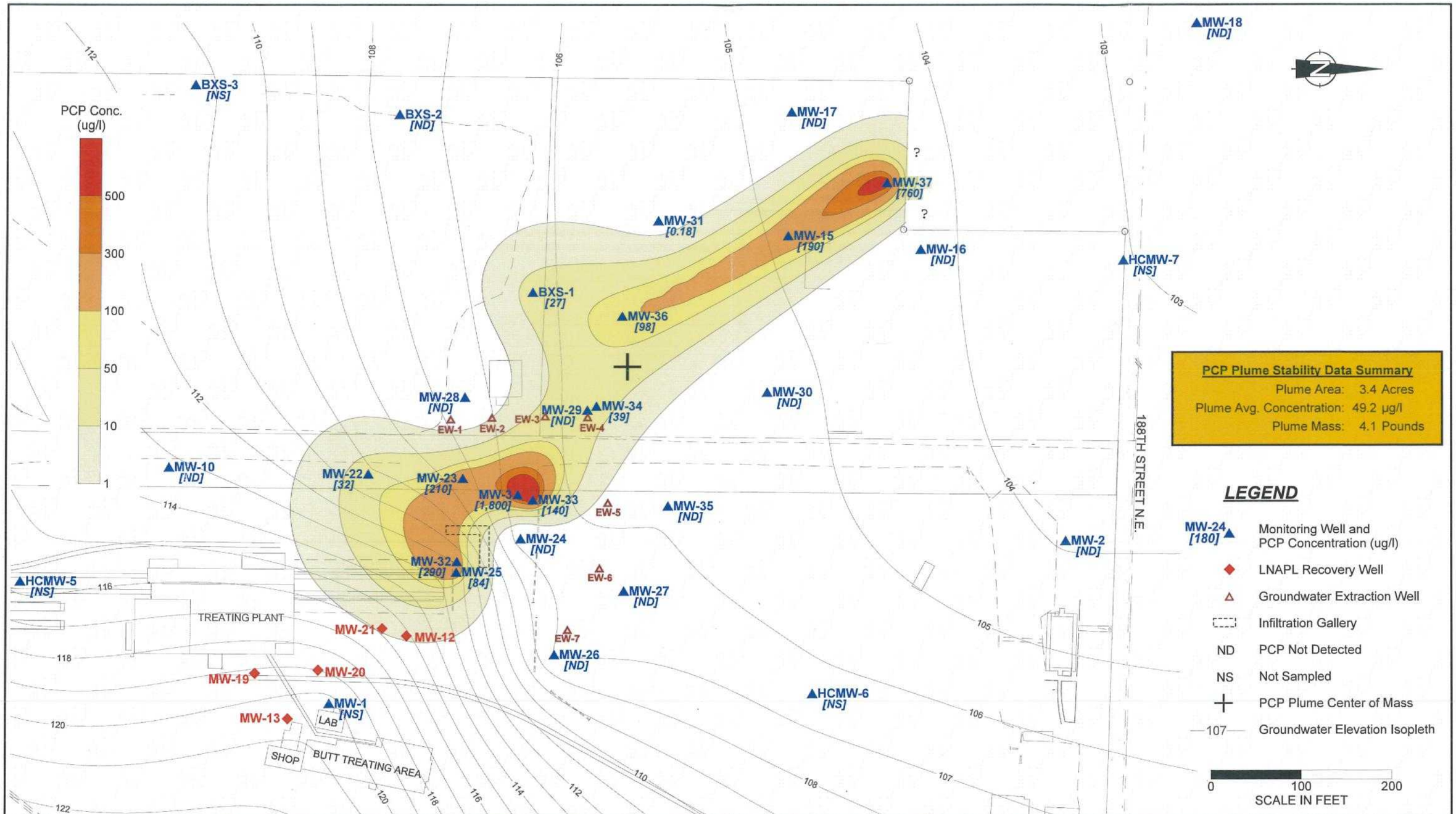
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - APRIL 2008
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 9



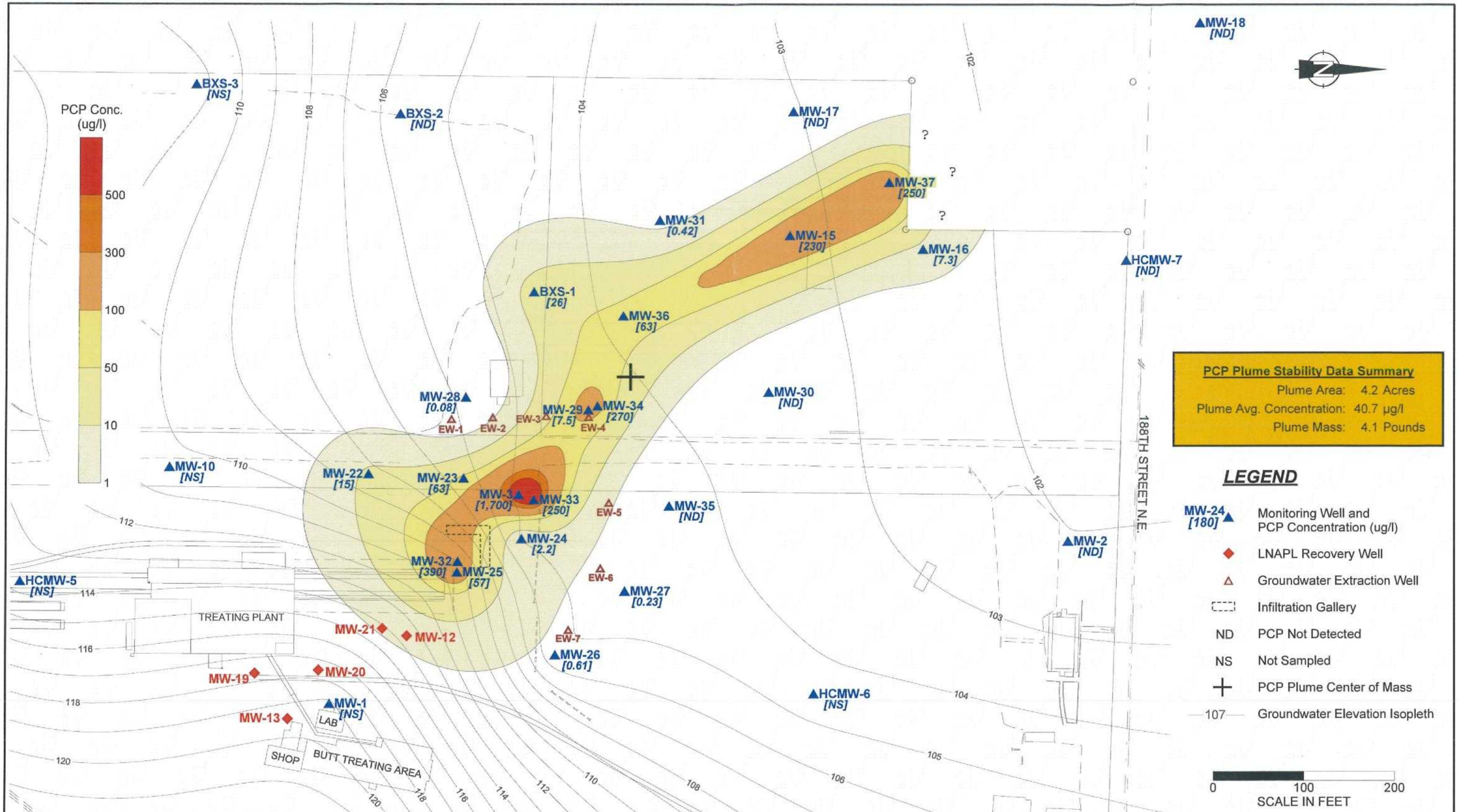
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - JULY 2008
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 10



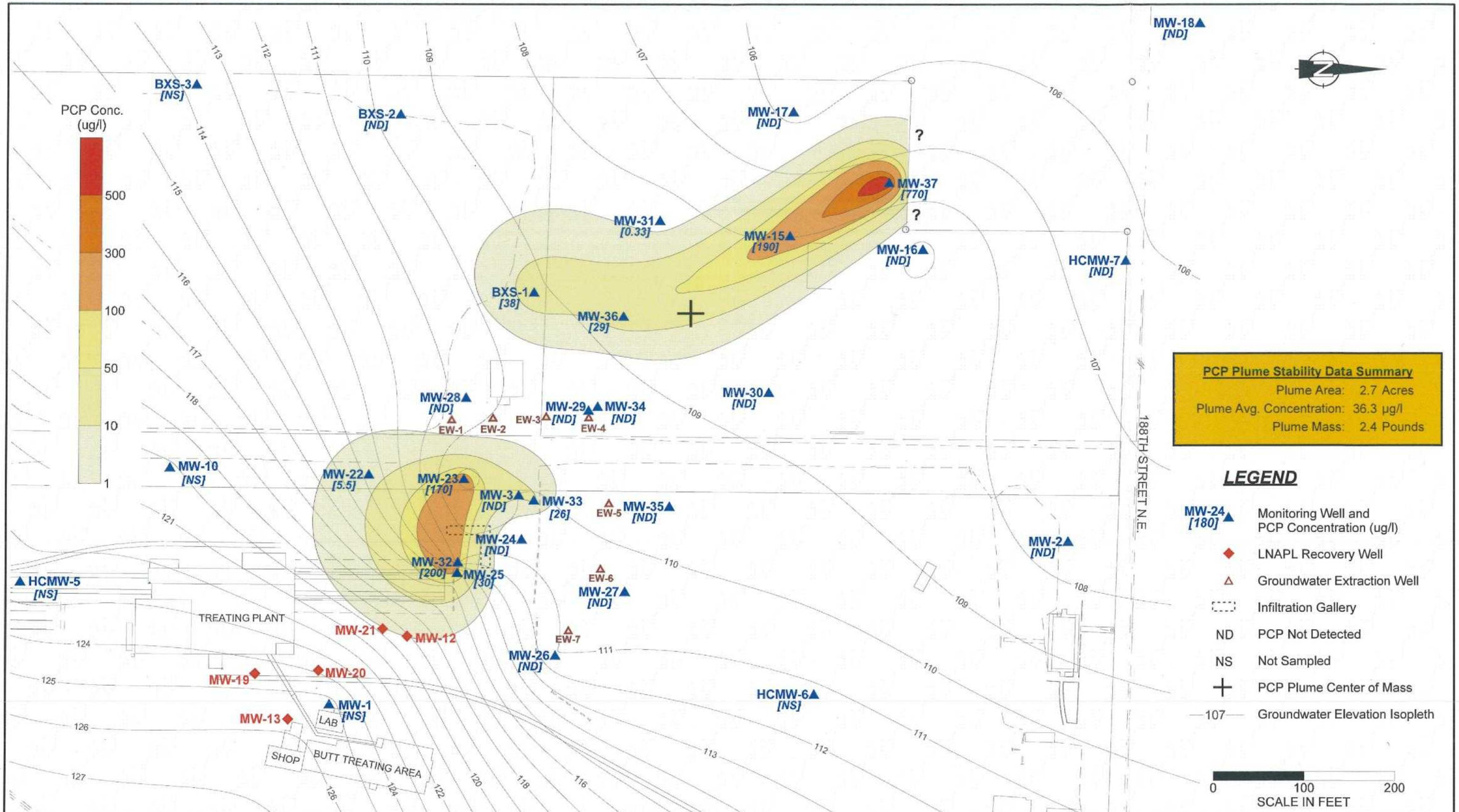
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - OCTOBER 2008
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 11



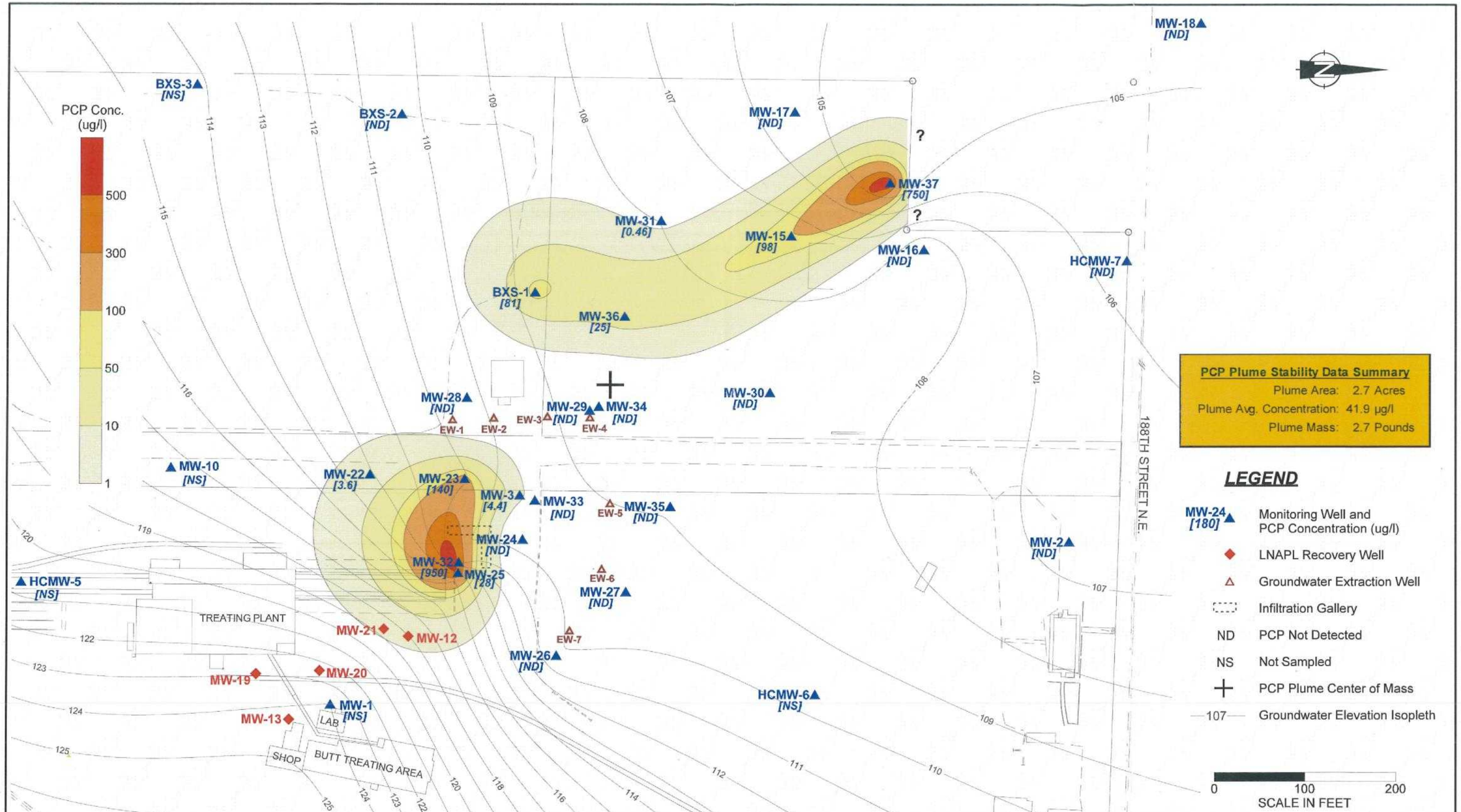
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - FEBRUARY 2009
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 12



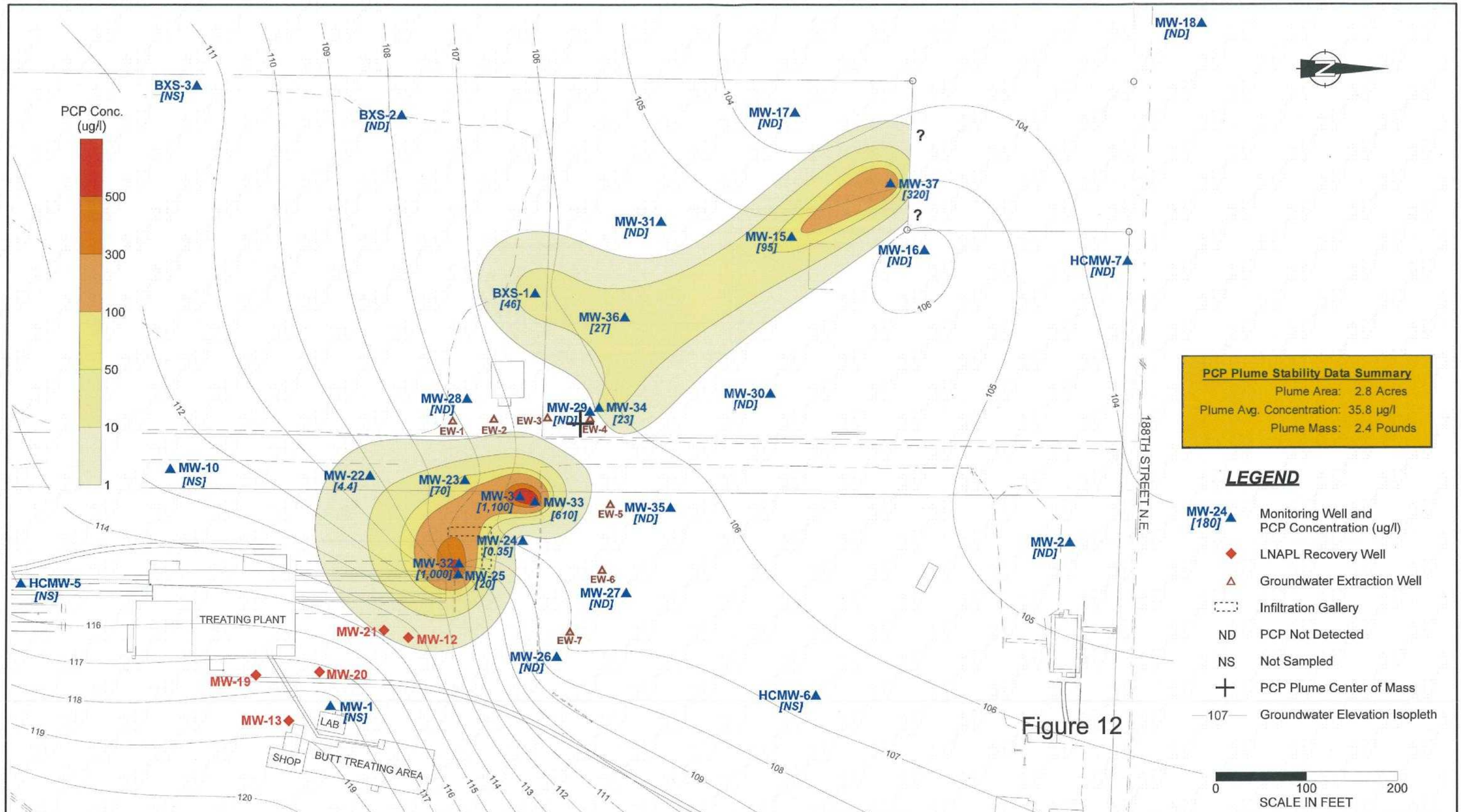
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - May 2009
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 13



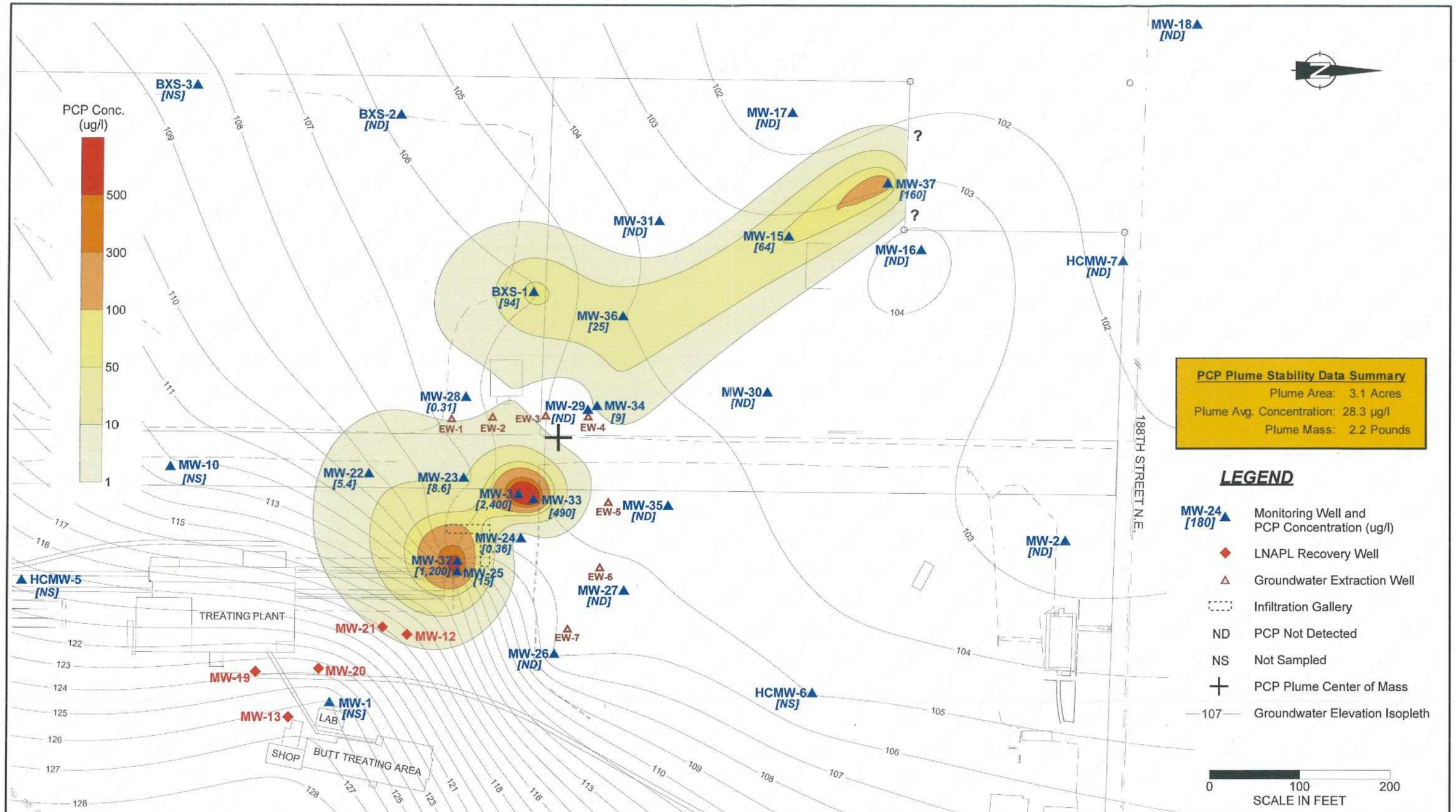
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - August 2009
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 14



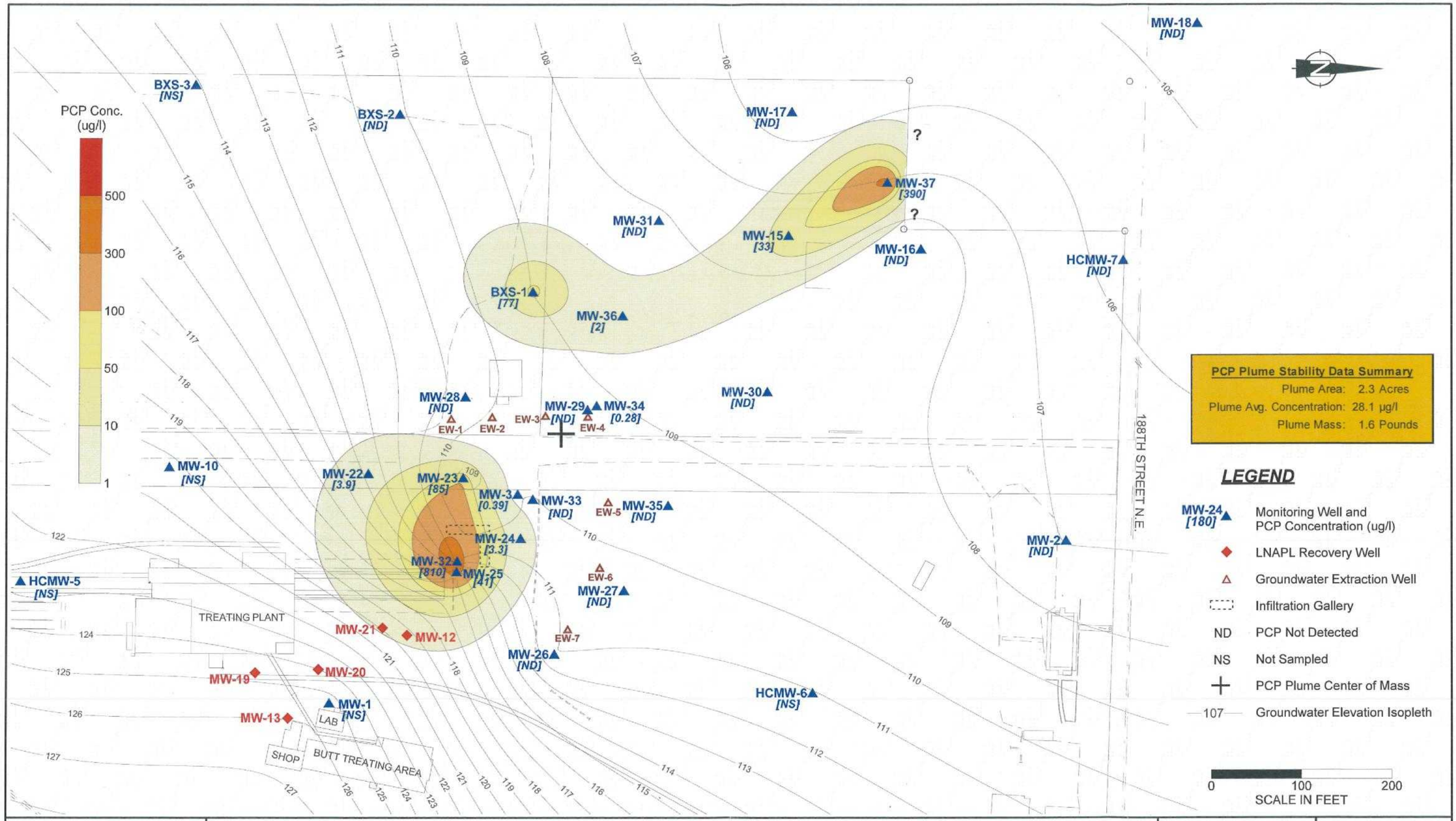
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - November 2009
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 15



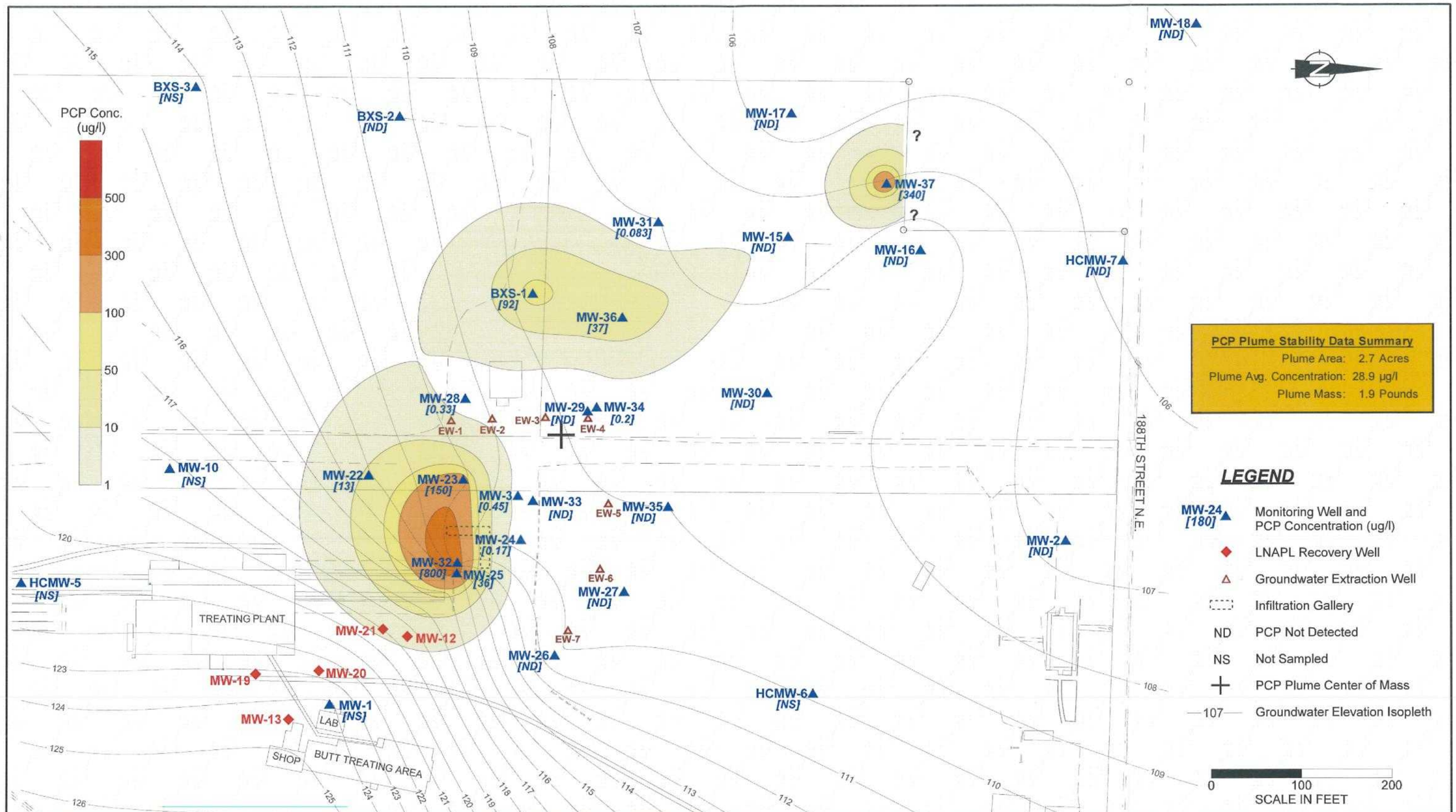
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - February 2010
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 16



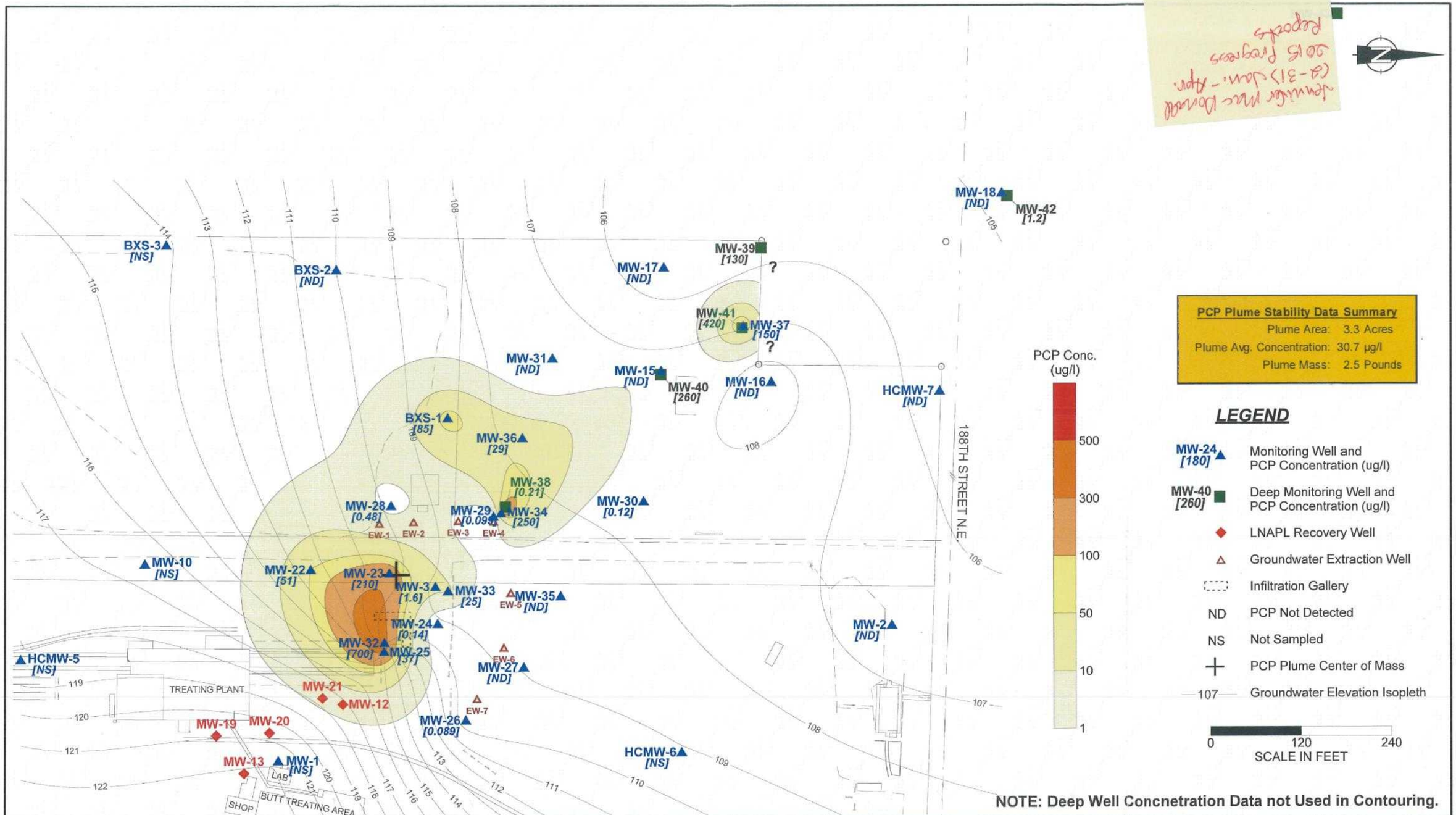
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - May 2010
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 17



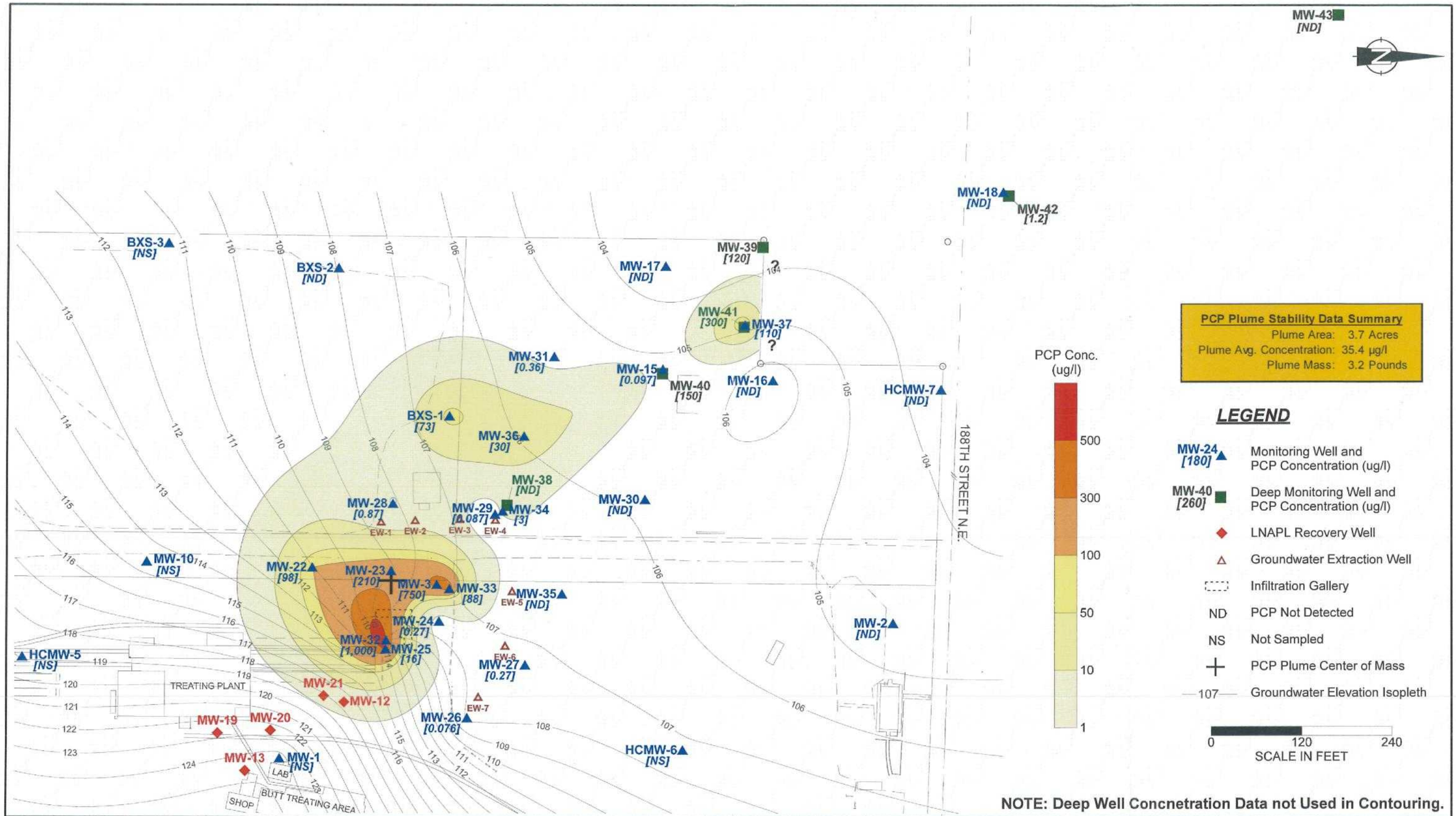
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - August 2010
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 18



NOTE: Deep Well Concnetration Data not Used in Contouring.

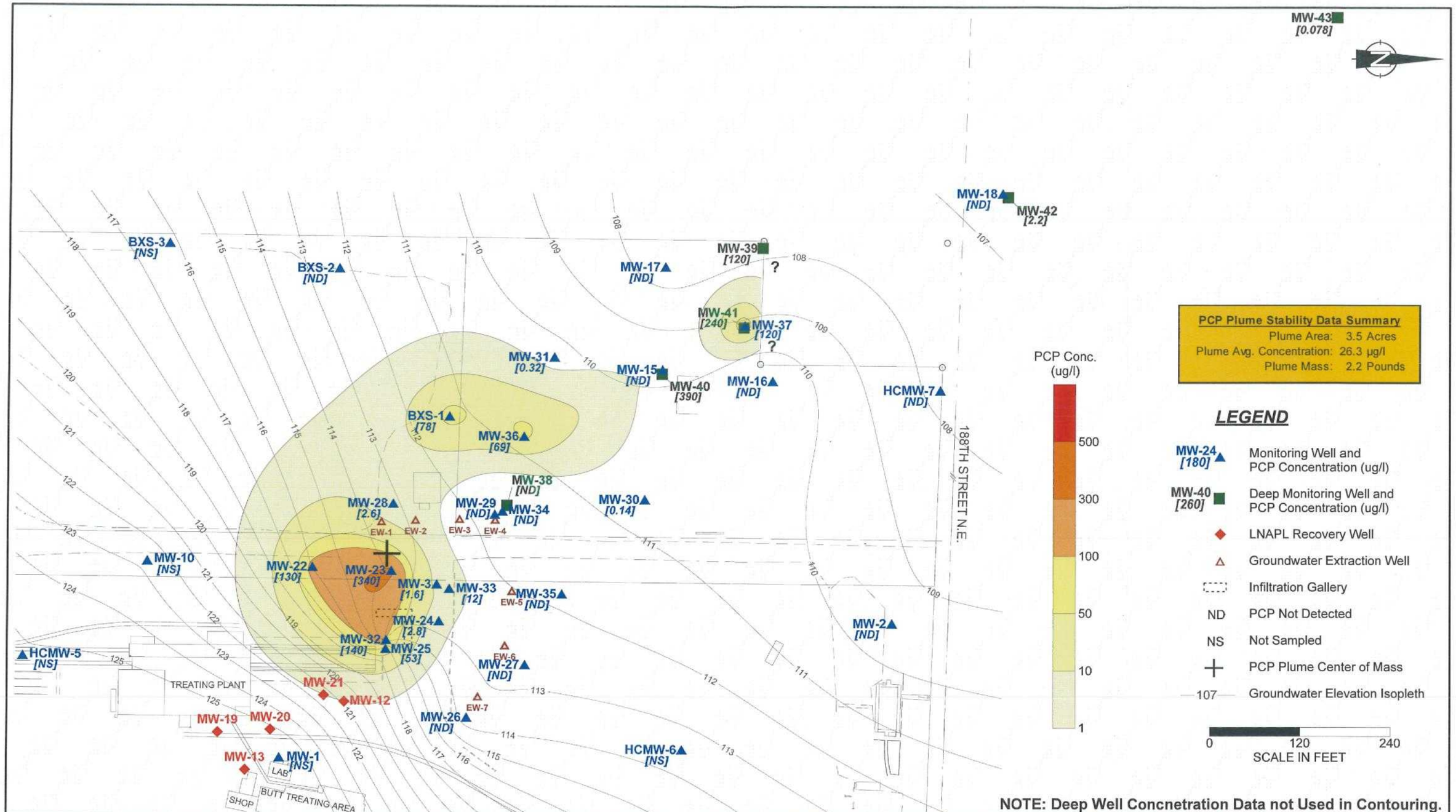
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - November 2010
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 19



NOTE: Deep Well Concnetration Data not Used in Contouring.

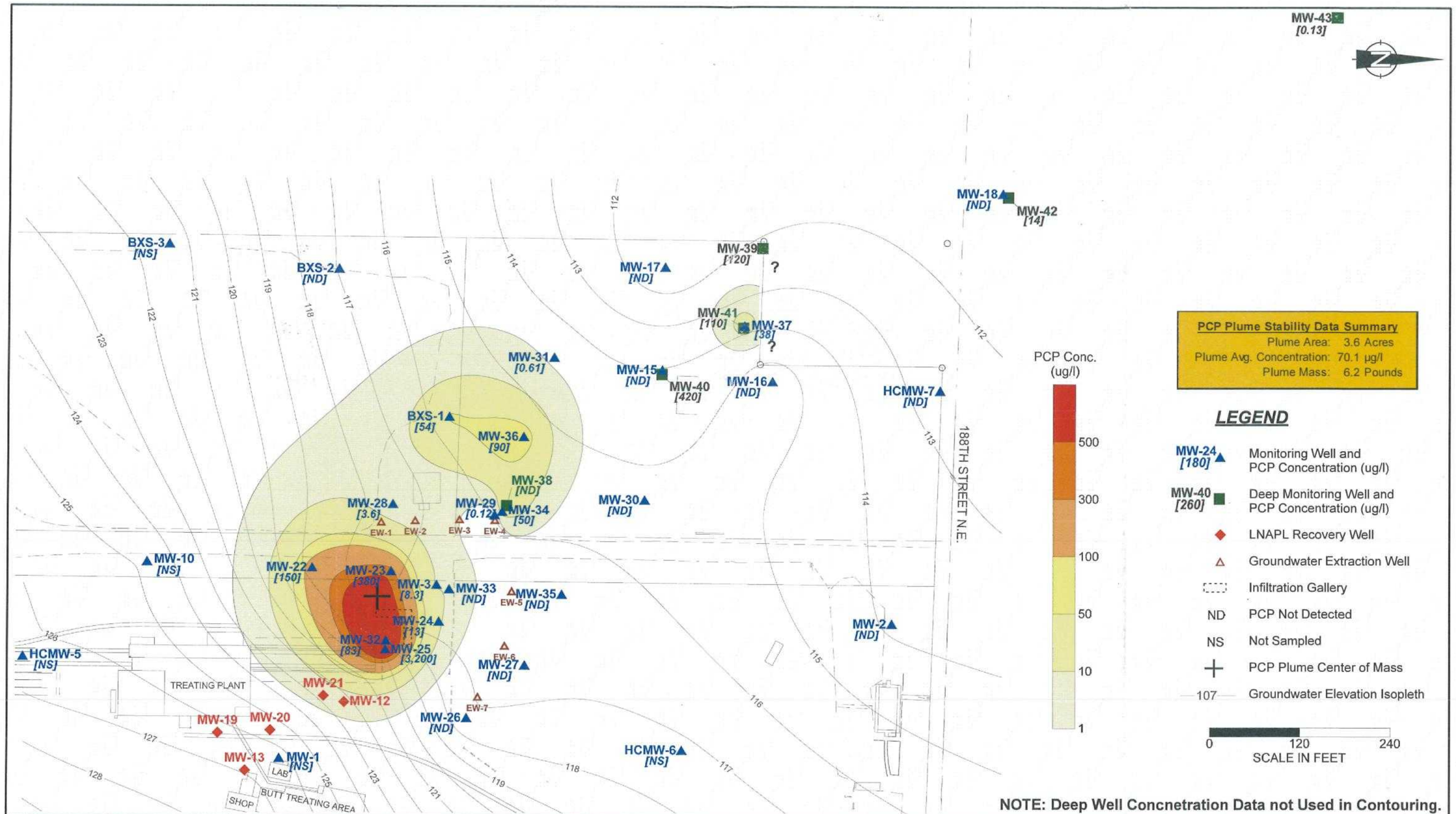
PREMIER ENVIRONMENTAL SERVICES, INC

PENTACHLOROPHENOL ISOPLETH MAP - February 2011
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 20



NOTE: Deep Well Concnetration Data not Used in Contouring.

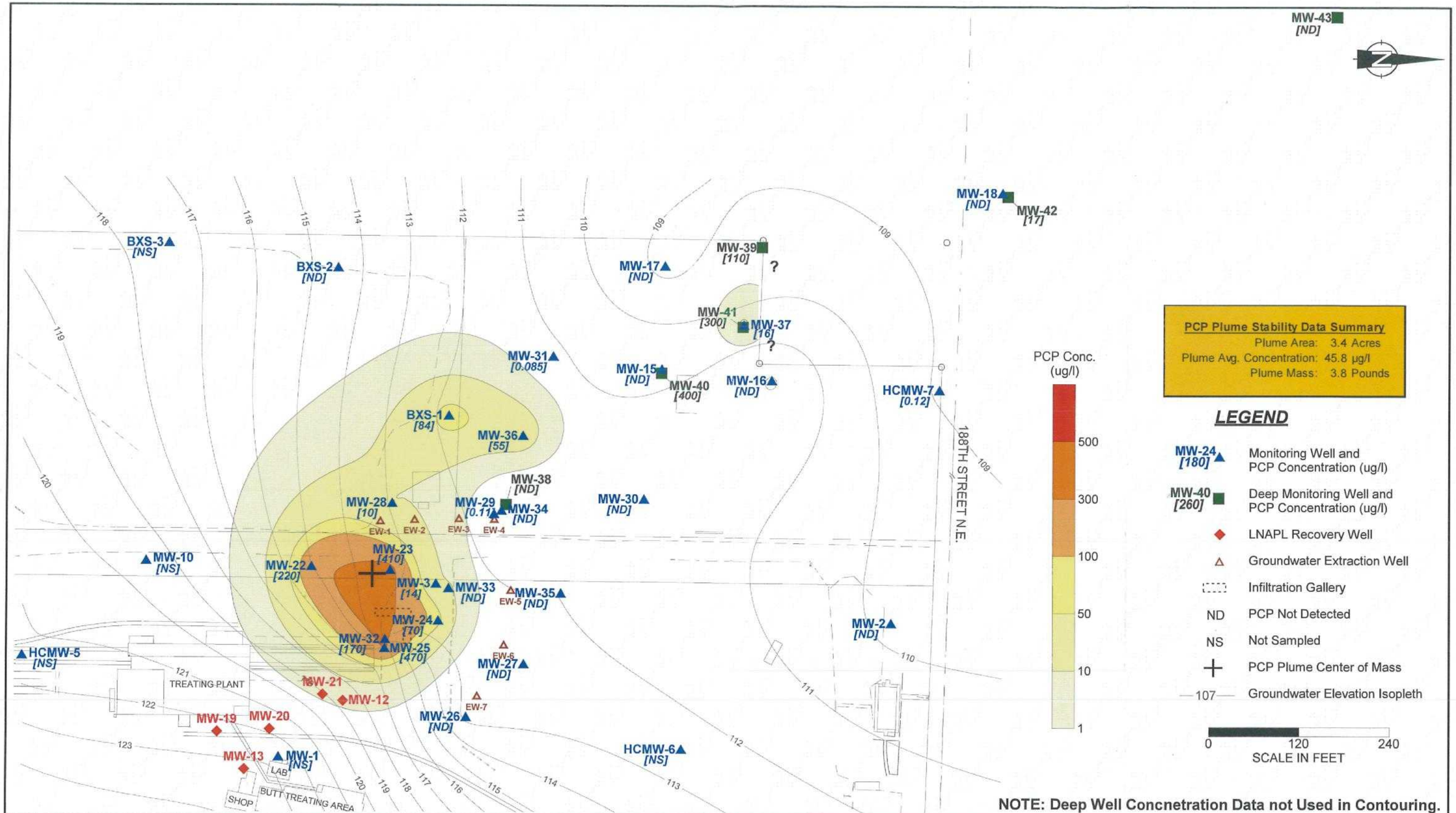
EARTHCON™
Environmental Challenges
BUSINESS SOLUTIONS

PENTACHLOROPHENOL ISOPLETH MAP - May 2011
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: JAR

Date: 03/13/14

Figure 21



NOTE: Deep Well Concnetration Data not Used in Contouring.

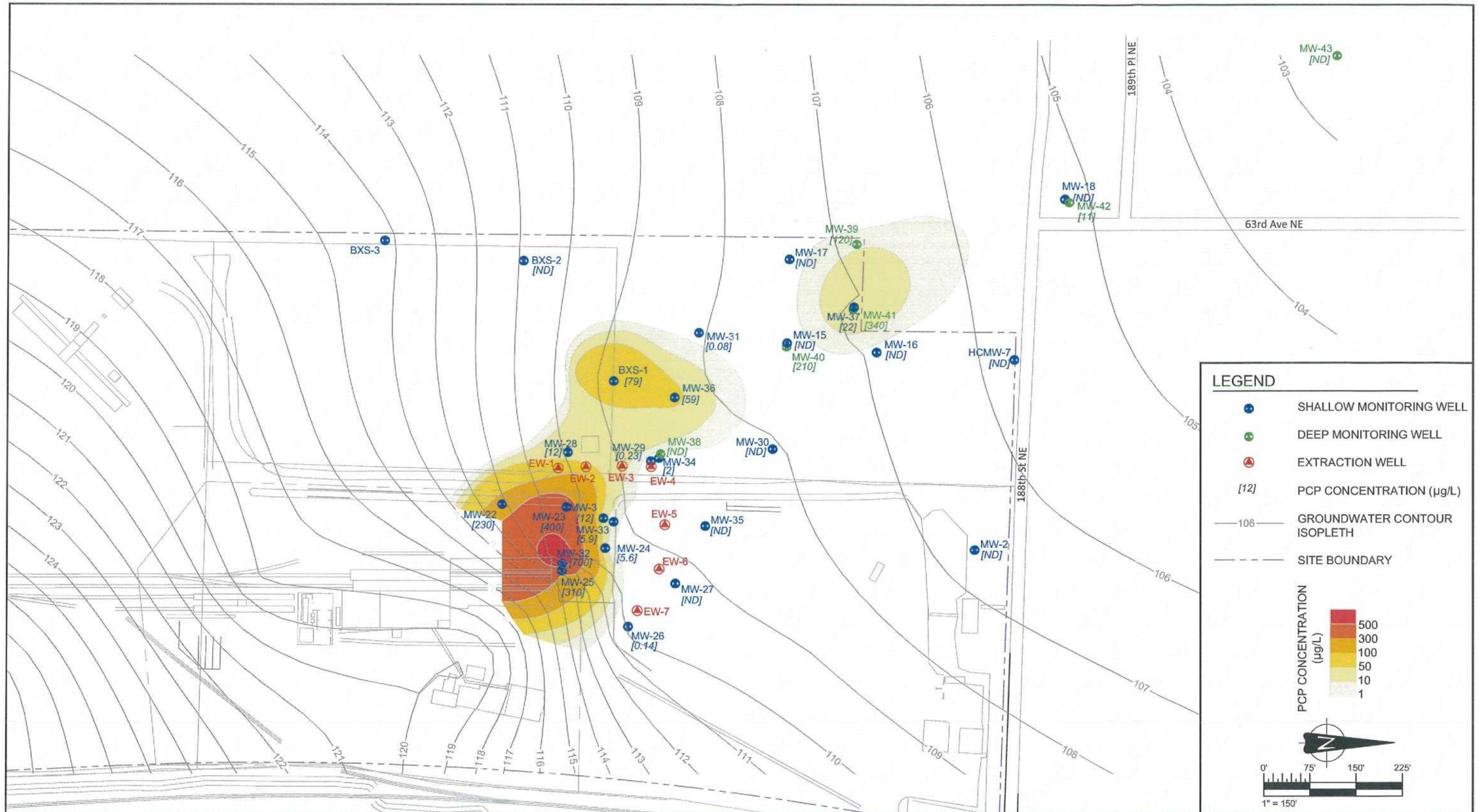
EARTHCON™
Environmental Challenges
BUSINESS SOLUTIONS

PENTACHLOROPHENOL ISOPLETH MAP - August 2011
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KMG

Date: 03/13/14

Figure 22



NOTES:

UNITS	µg/L
ND	Undetected
NA	Not Analyzed

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

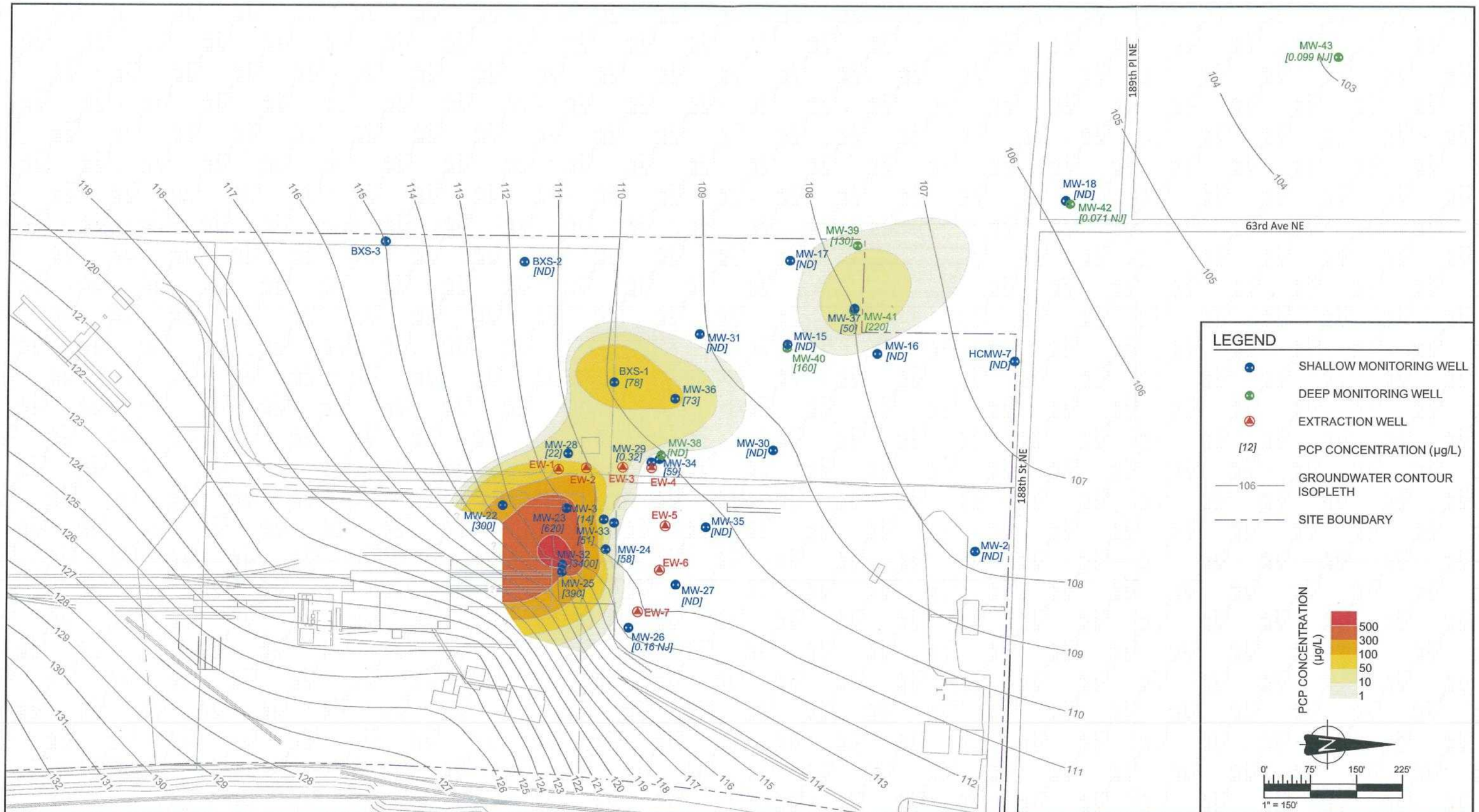
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP NOVEMBER 2011

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	23

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 23 – Penta Isopleth Map – November 2011 – 4Q2013.dwg – –23 – Mar. 07, 2014 11:43am – stephane.descombes



NOTES:

UNITS	µg/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

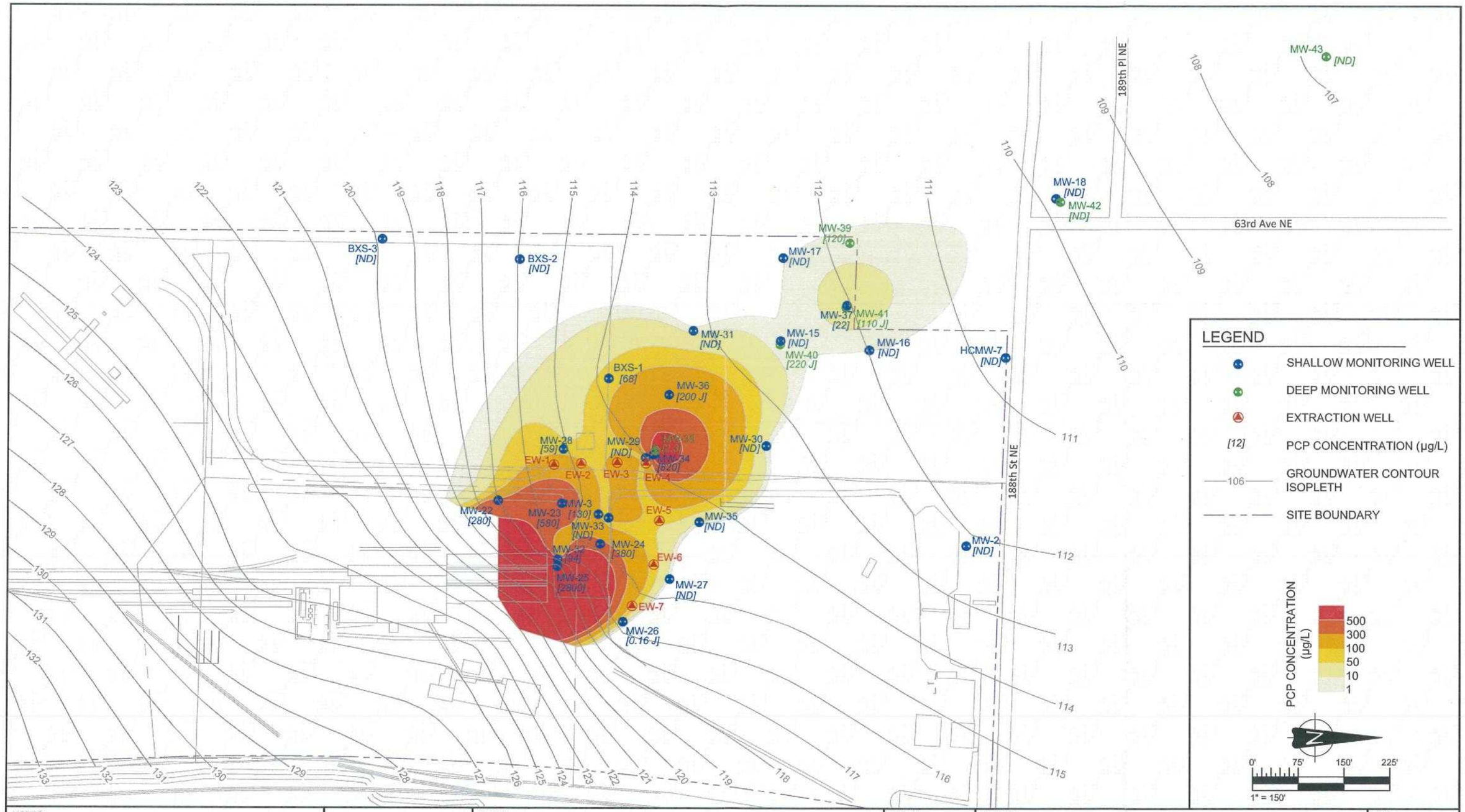
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
FEBRUARY 2012

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	24

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 24 – Penta Isopleth Map – February 2012 – 4Q2013.dwg – –24 – Mar. 07, 2014 11:48am – stephane.descombes



NOTES:

UNITS	µg/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

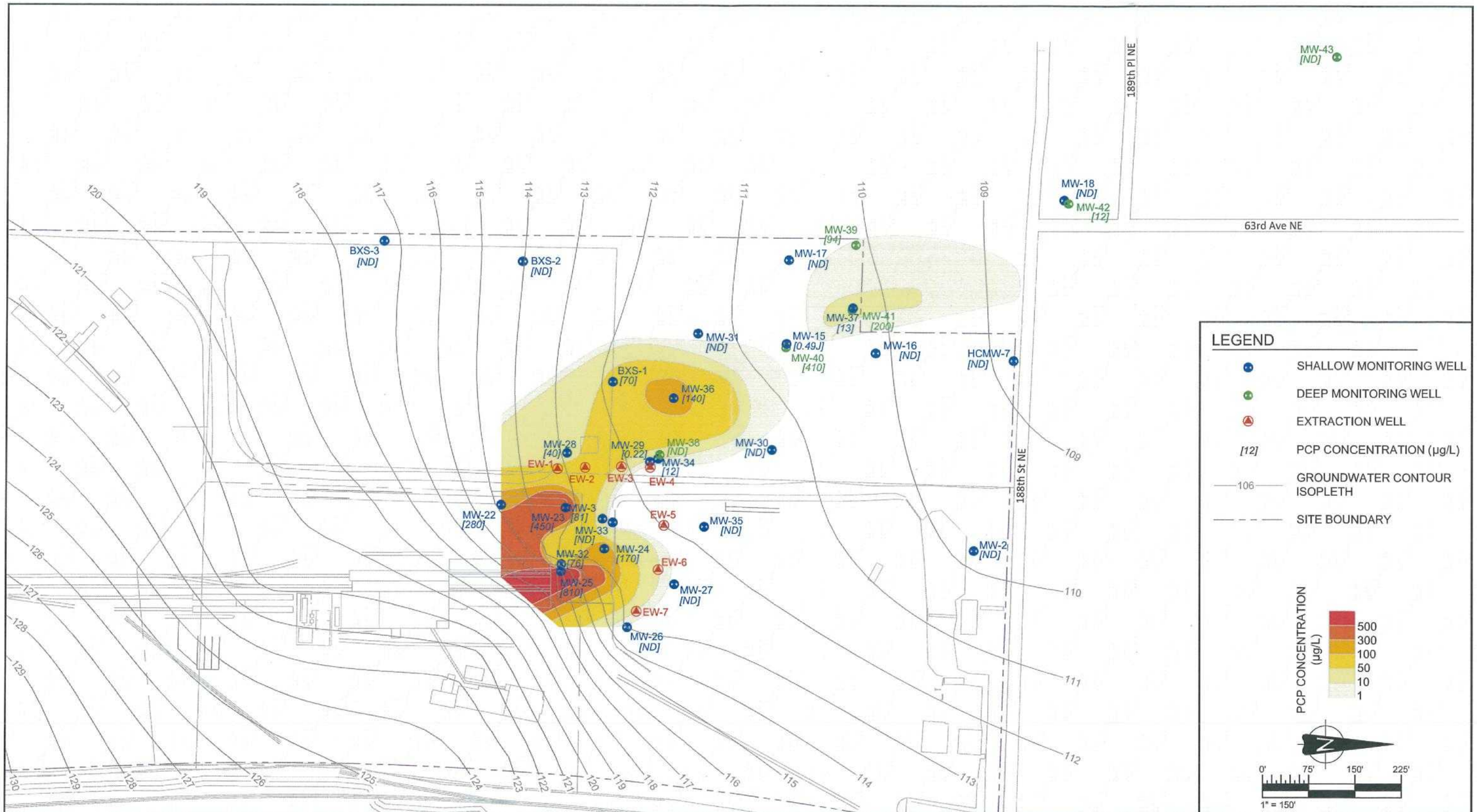
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
MAY 2012

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	25

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 25-26-27 - 4Q2013.dwg - -25 - Mar. 07, 2014 11:49am - stephane.descombes



NOTES:

UNITS	µg/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

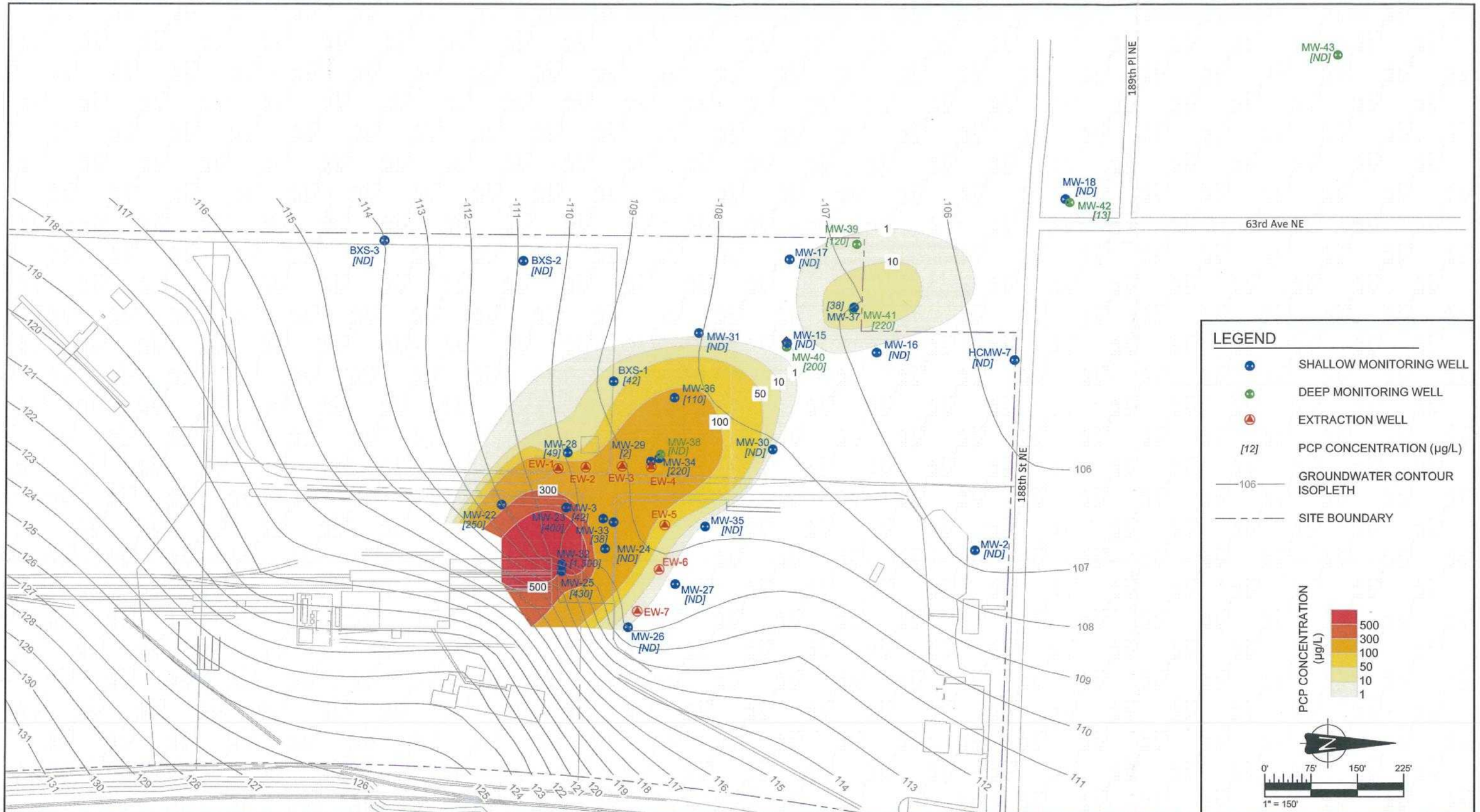
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP AUGUST 2012

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	26

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 25-26-27 - 4Q2013.dwg - -26 - Mar. 07, 2014 11:51am - stephane.descombes



NOTES:

UNITS	µg/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

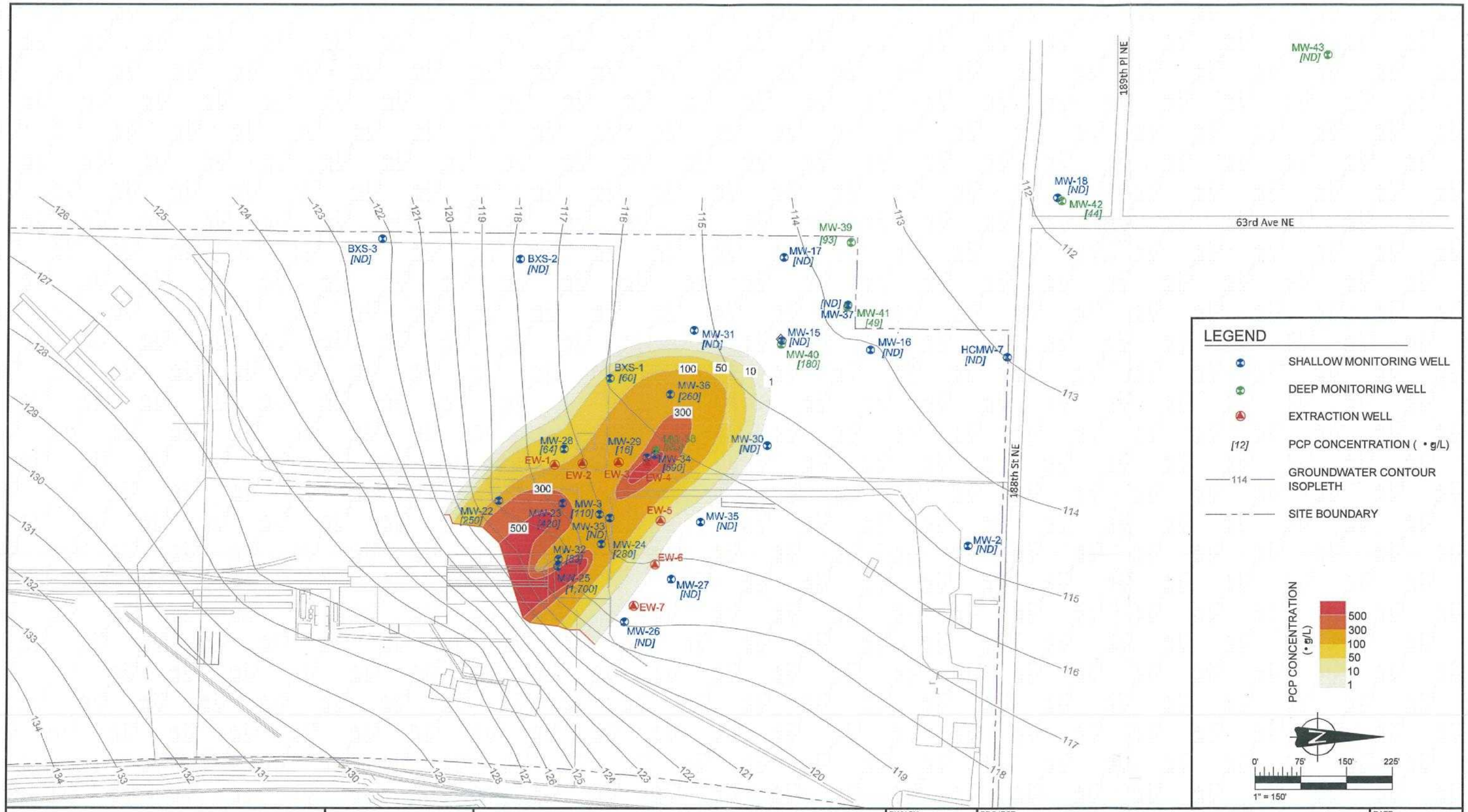
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
NOVEMBER 2012

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	27

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 25-26-27 - 4Q2013.dwg - -27 - Mar. 07, 2014 11:52am - stephane.descombes



NOTES:

UNITS	• g/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

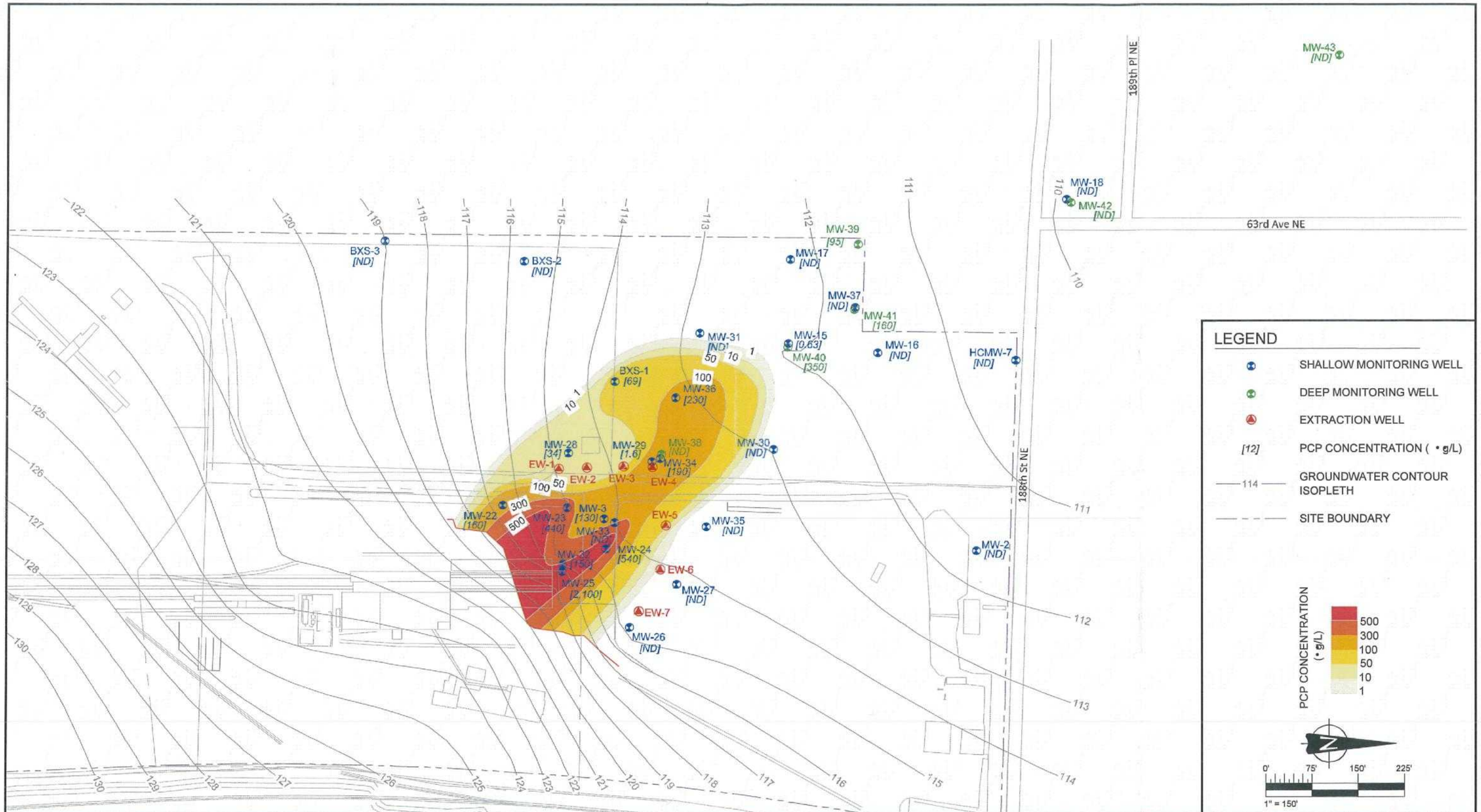
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
FEBRUARY 2013

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	28

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 28 - Penta Isopleth Map - February 2013 - 4Q2013.dwg - -28 - Mar. 07, 2014 11:55am - stephane.descombes



NOTES:

UNITS	• g/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

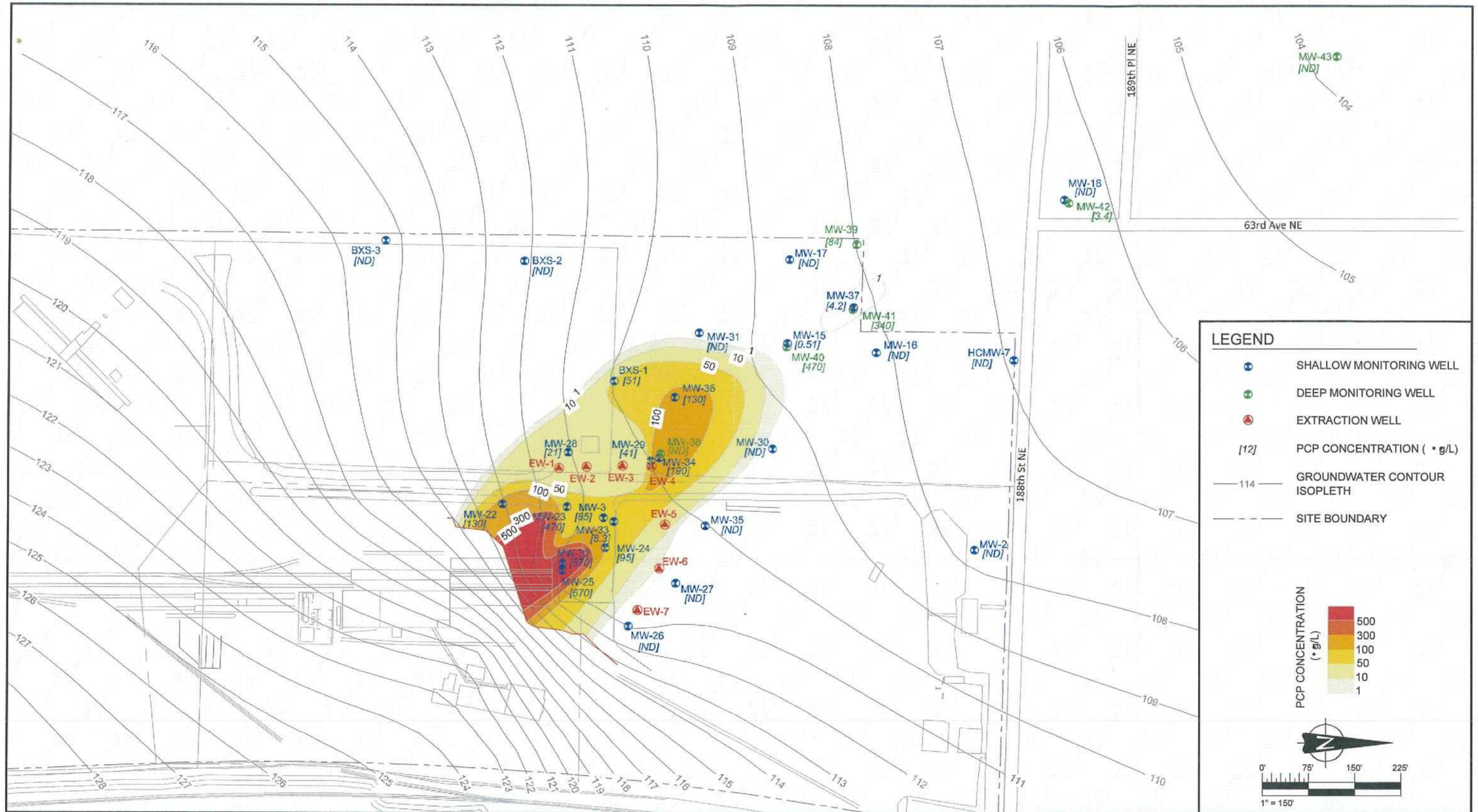
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
JUNE 2013

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	29

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 7-29-36 - 4Q2013.dwg - -29 - Mar. 07, 2014 1:36pm - stephane.descombes



NOTES:

UNITS	• g/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

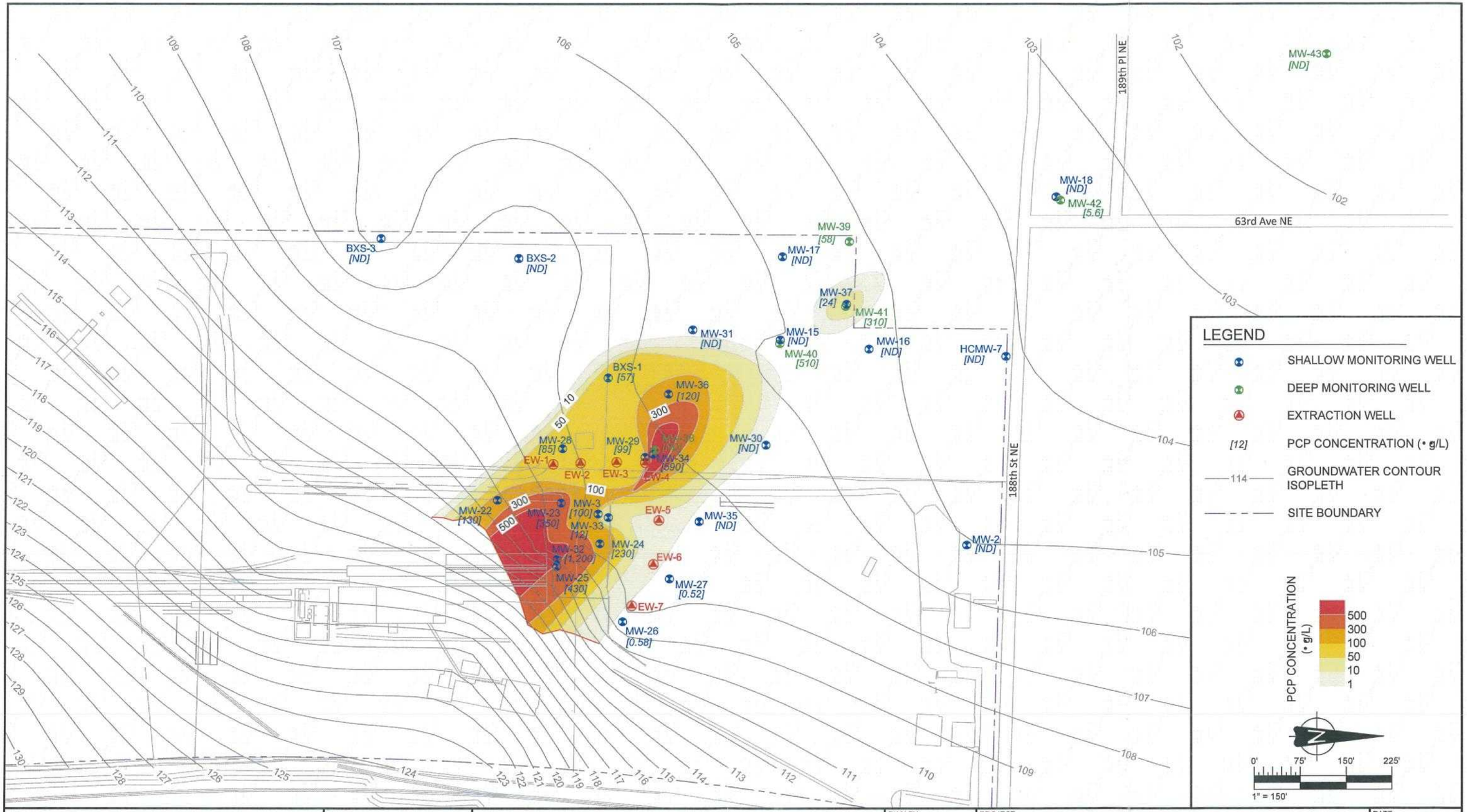
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
AUGUST 2013

DATE:	MARCH 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	30

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 30 - Penta Isopleth Map - August 2013 - 4Q2013.dwg - -30 - Mar. 10, 2014 8:47am - stephane.descombes



NOTES:

UNITS	• g/L
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

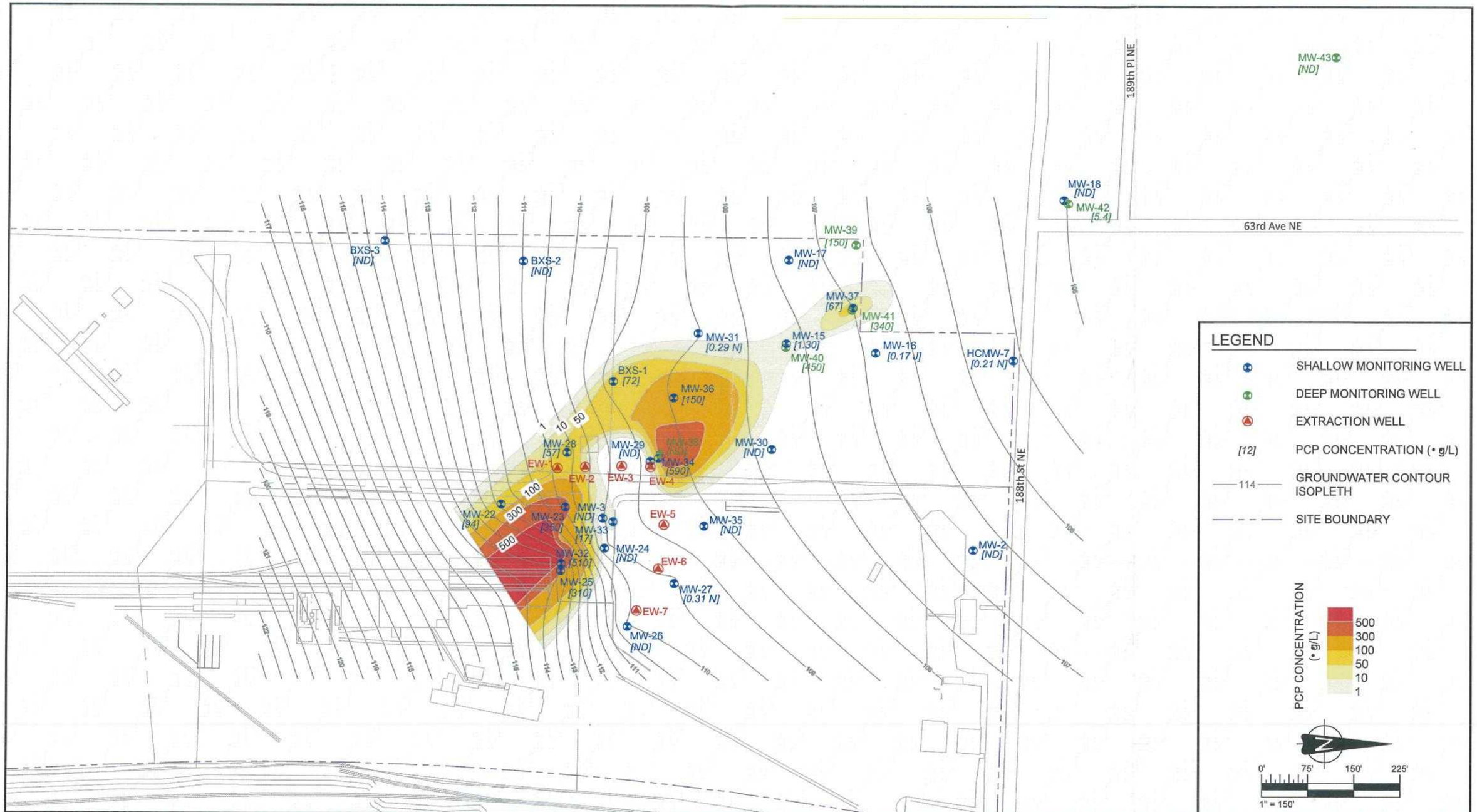
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
DECEMBER 2013

DATE:	JULY 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	31

K:\12000\12500\12561\125612\DWG\4Q2013\Figure 31 – Penta Isopleth Map – December 2013 – 4Q2013.dwg – –31 – Jul. 15, 2014 12:05pm – patrick.mccarthy



NOTES:

UNITS	• g/L
J	Estimated Value
N	Tentatively Identified Analyte
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

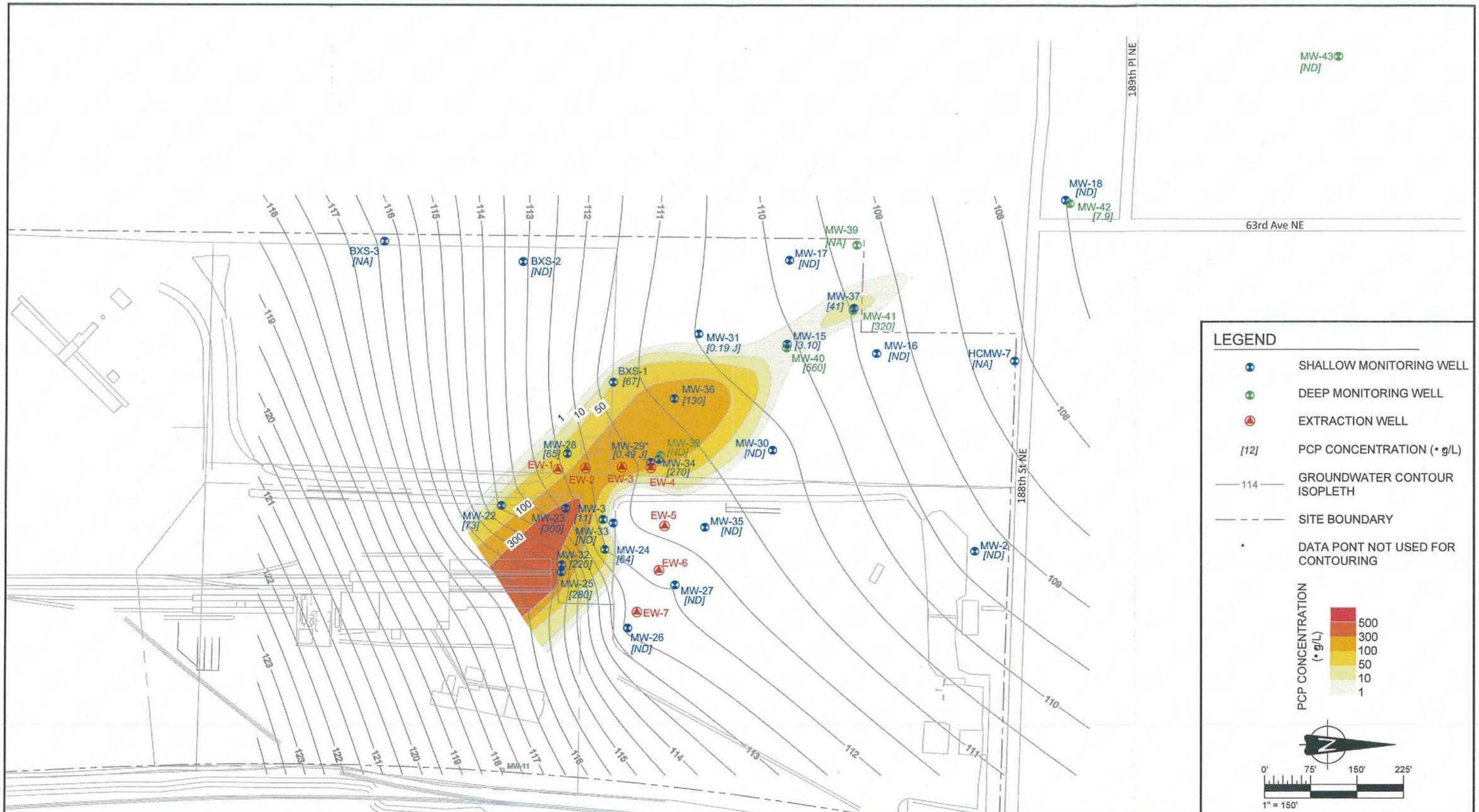
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
MARCH 2014

DATE:	JULY 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	32

K:\12000\12500\12561\125612\DWG\1Q2014\Figure 32 – Penta Isopleth Map – March 2014 – 20141Q.dwg – –32 – Jul. 15, 2014 1:40pm – patrick.mccarthy



NOTES:

UNITS	• g/L
J	Estimated Value
N	Tentatively Identified Analyte
NA	Not Analyzed
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

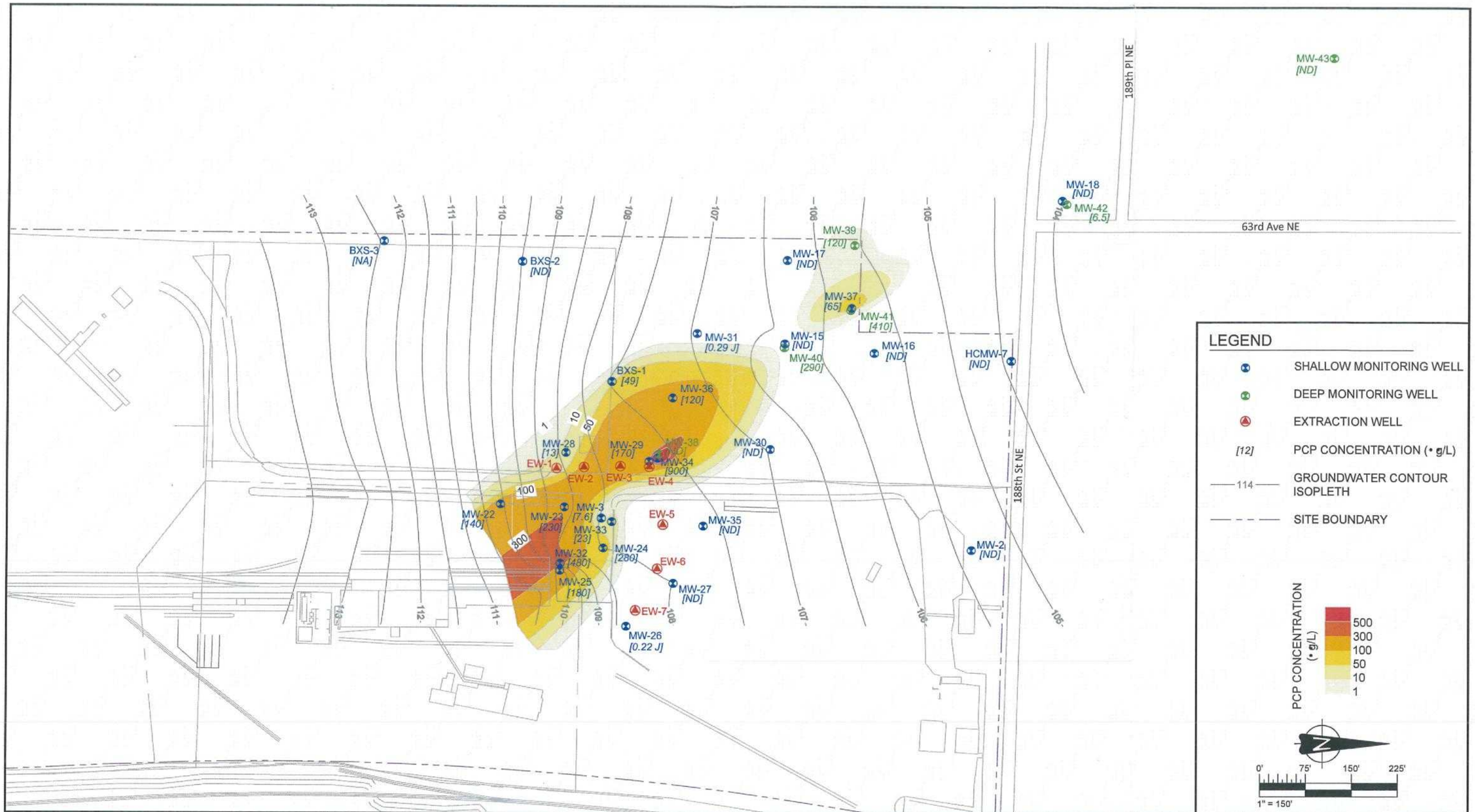
DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
JUNE 2014

DATE:	AUGUST 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	33

K:\12000\12500\12561\125612\DWG\2Q2014\Figure 33 – Penta Isopleth Map – March 2014 – 20142Q.dwg – –33 – Aug. 26, 2014 3:25pm – patrick.mccarthy



NOTES:

UNITS	• g/L
J	Estimated Value
N	Tentatively Identified Analyte
NA	Not Analyzed
ND	Undetected
NJ	Tentatively Identified Analyte; Estimated Value

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

DWN BY:	PM/SD
CHK'D BY:	SB
DATUM:	-
PROJECTION:	-
SCALE:	1"=150'

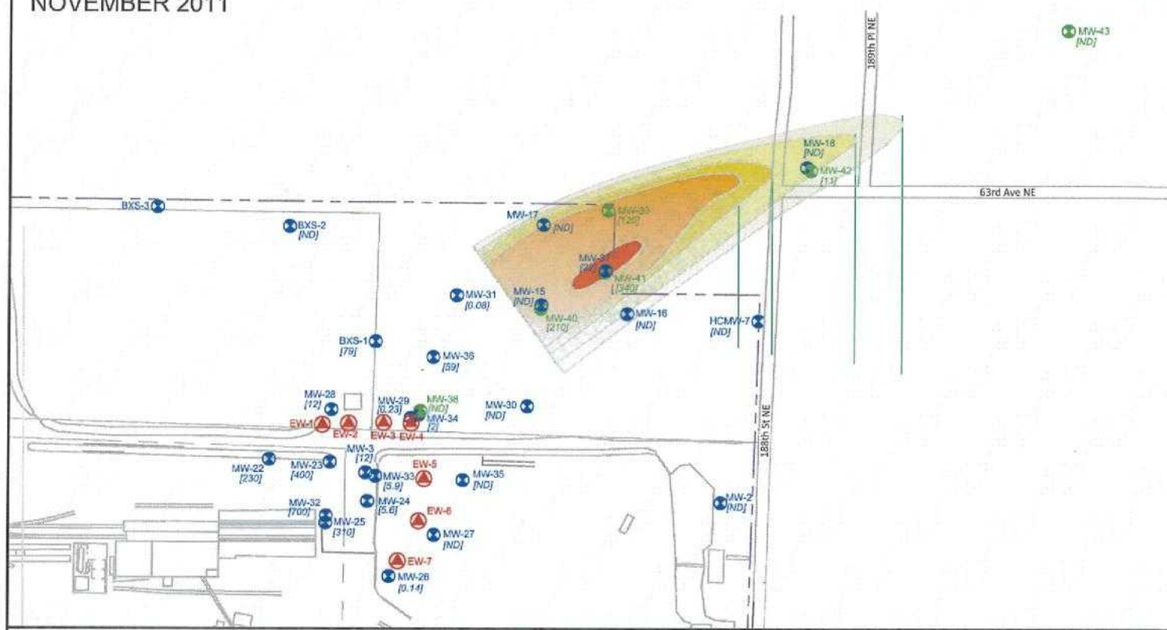
PROJECT: FORMER J.H. BAXTER AND CO.
WOOD TREATING FACILITY
ARLINGTON, WA

TITLE: PENTACHLOROPHENOL ISOPLETH MAP
SEPTEMBER 2014

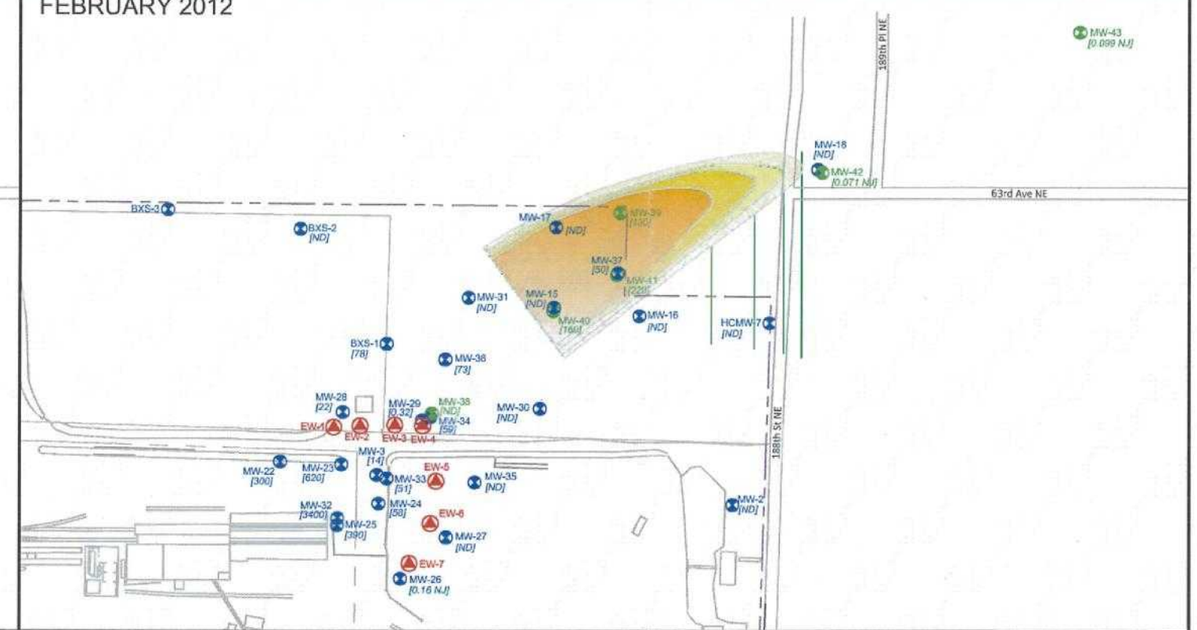
DATE:	DECEMBER 2014
PROJECT NO.:	461M125612.01.4
REV. NO.:	A
FIGURE NO.:	34

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 34 – Penta Isopleth Map – Sept 2014 – 20143Q.dwg – –34 – Dec. 09, 2014 8:18am – patrick.mccarthy

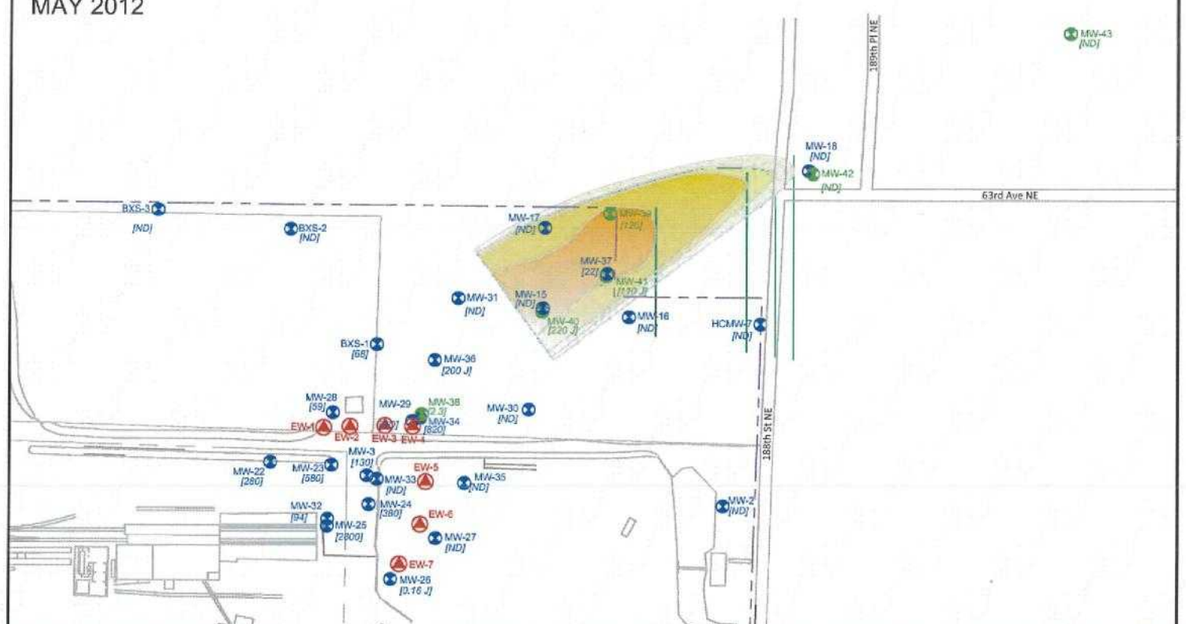
NOVEMBER 2011



FEBRUARY 2012



MAY 2012



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- EXTRACTION WELL
- [12] PCP CONCENTRATION (µg/L)
- SITE BOUNDARY

NOTES:

UNITS	µg/L
ND	Undetected
NA	Not Analyzed

PCP CONCENTRATION (µg/L)

500
300
100
50
10
1

0' 175' 250' 325'

1" = 250'

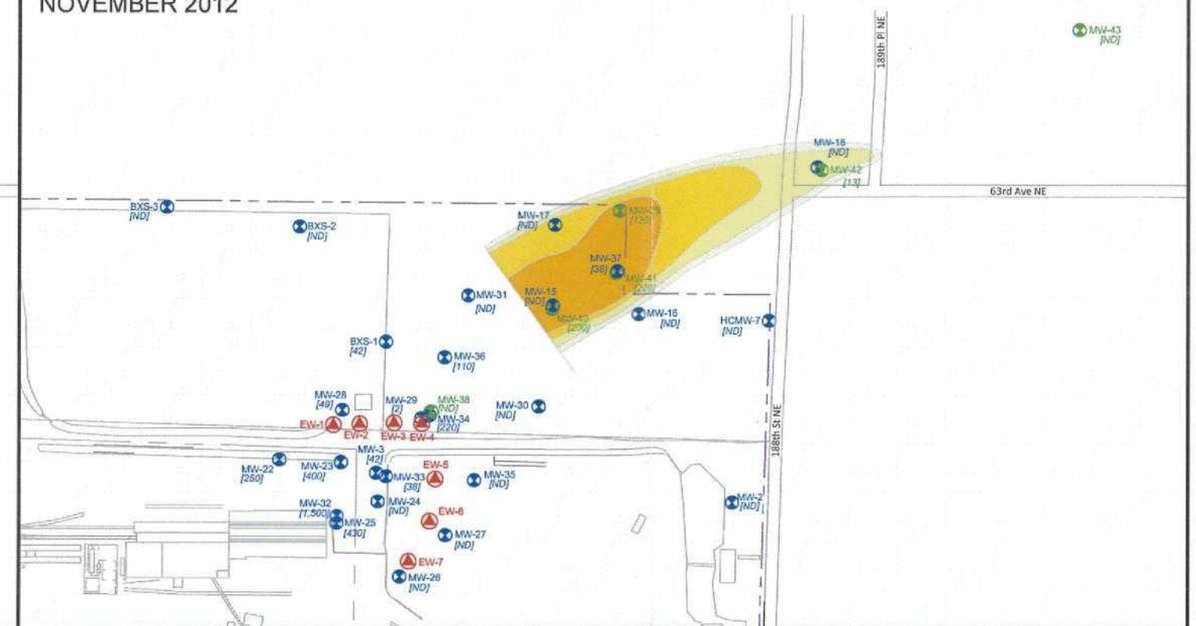
Baxter	CLIENT: J.H. BAXTER	DWN BY: PM/SD CHK'D BY: SB DATUM: - PROJECTION: - SCALE: 1"=250'	PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA
	AMEC 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	amec	TITLE: PENTACHLOROPHENOL ISOPLETH MAP NOVEMBER 2011 & FEBRUARY & MAY 2012 DEEPER ZONE ONLY

DATE: AUGUST 2014
PROJECT NO.: 461M125612.01.4
REV. NO.: A
FIGURE NO.: 35

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 35 – PCP Concentration – Nov 2011_Feb2012_May2012.dwg – – – Dec. 08, 2014 9:59am – patrick.mccarthy

AUGUST 2012

NOVEMBER 2012



FEBRUARY 2013

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- EXTRACTION WELL
- [38] PCP CONCENTRATION (• g/L)
- SITE BOUNDARY

PCP CONCENTRATION (• g/L)

- 500
- 300
- 100
- 50
- 10
- 1

NOTES:

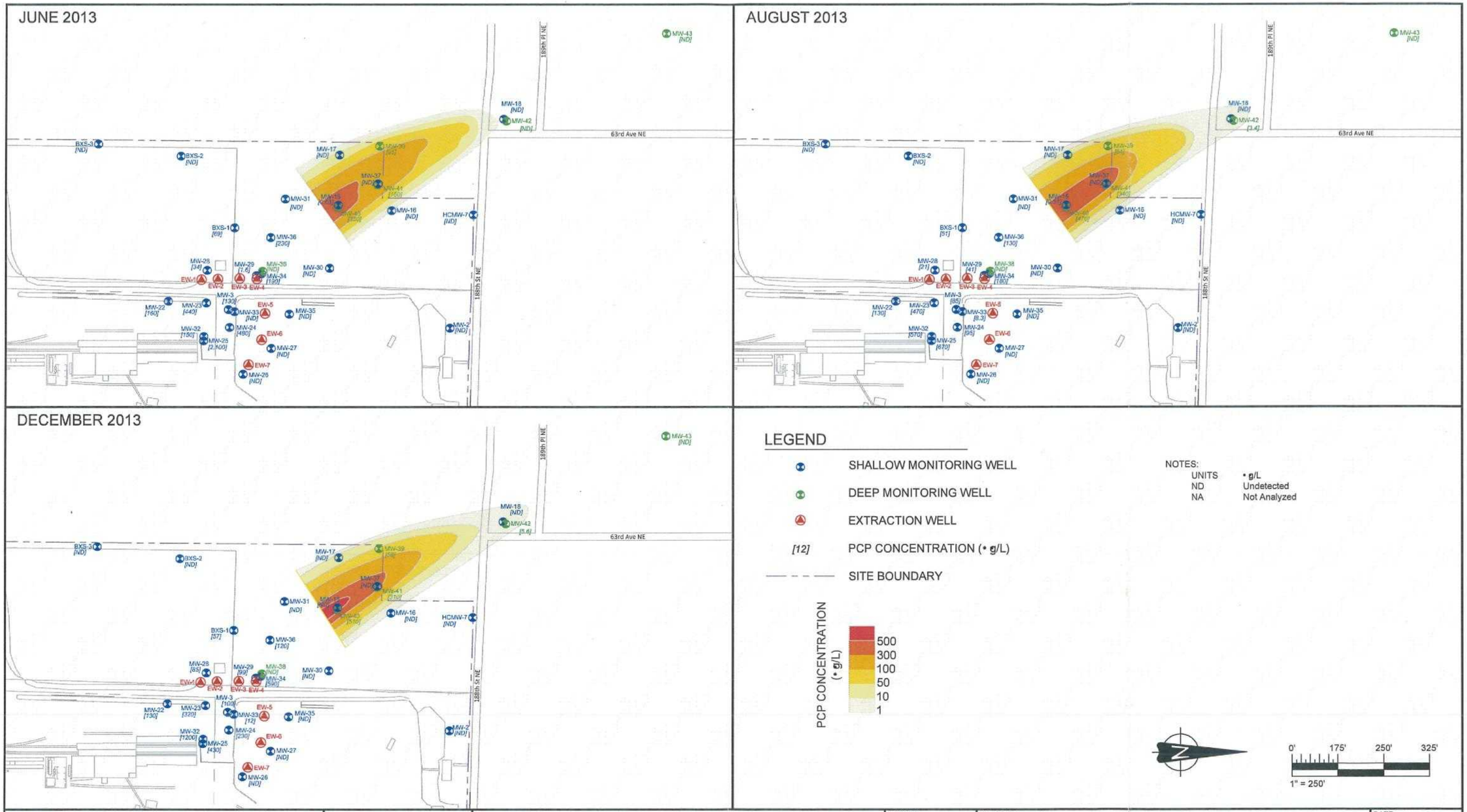
UNITS	• g/L
ND	Undetected
NA	Not Analyzed

0' 175' 250' 325'

1" = 250'

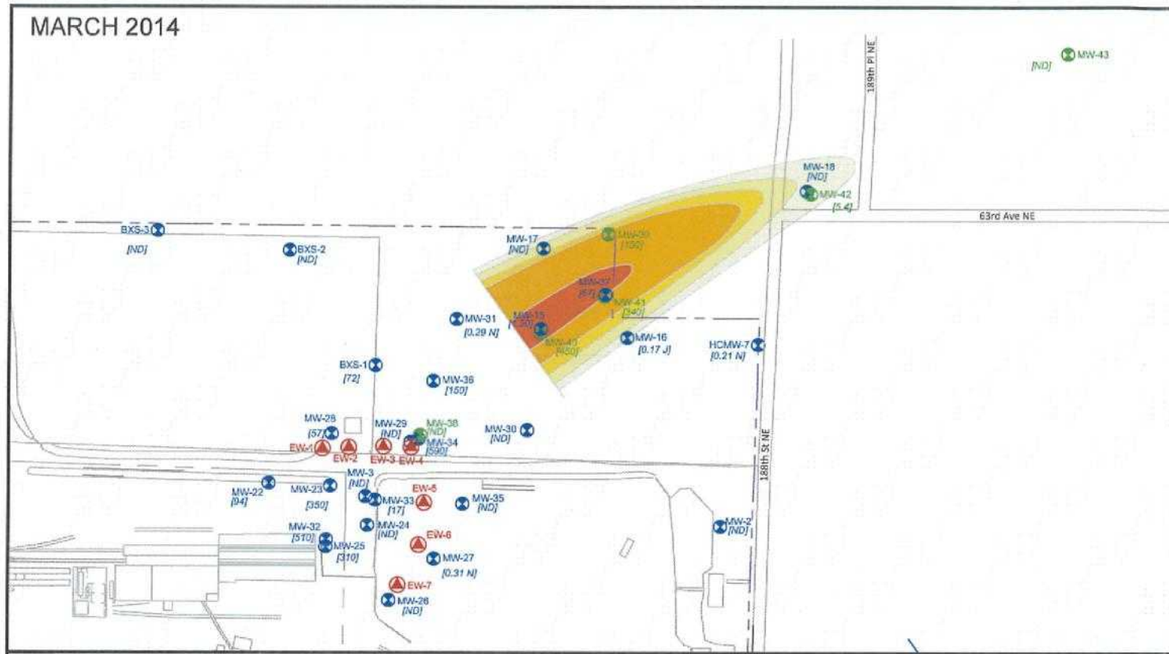
CLIENT: J.H. BAXTER	DWN BY: PM/SD	PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA	DATE: AUGUST 2014
	CHK'D BY: SB		PROJECT NO.: 461M125612.01.4
AMEC 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	DATUM: -	TITLE: PENTACHLOROPHENOL ISOPLETH MAP AUGUST 2012 & NOVEMBER 2012 & FEBRUARY 2013 DEEPER ZONE ONLY	REV. NO.: A
	PROJECTION: -		FIGURE NO.: 36
	SCALE: 1"=250'		

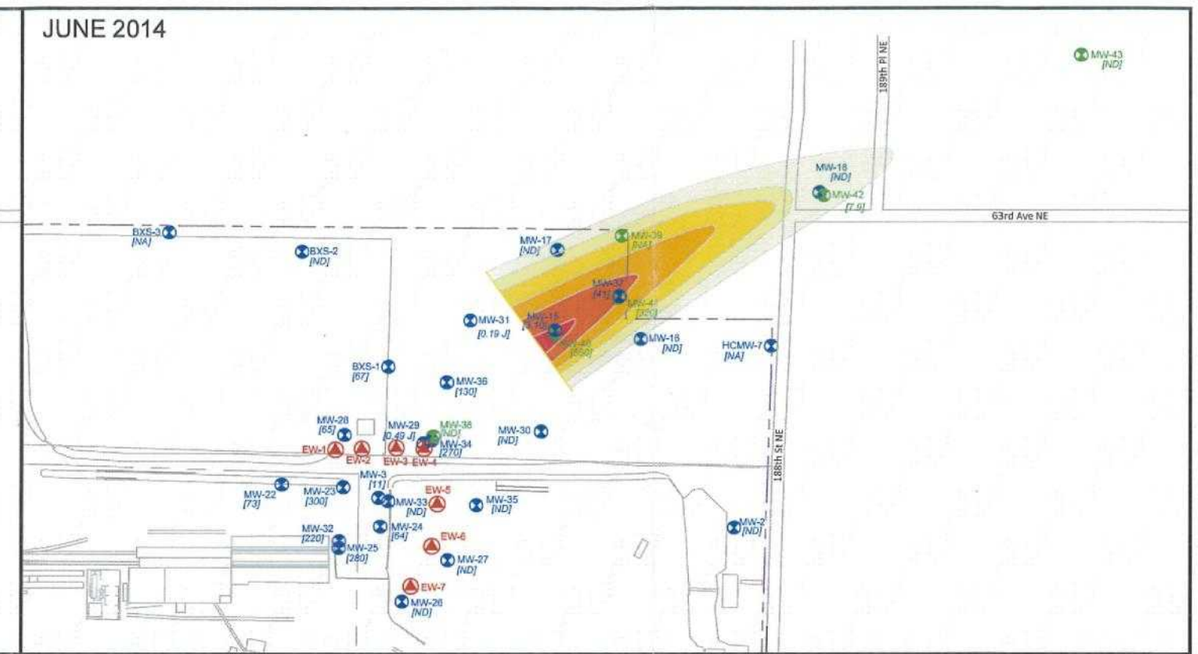
K:\12000\12500\12561\125612\DWG\3Q2014\Figure 36 – PCP Concentration – Aug2012_Nov2012_Feb2013.dwg – – – Dec. 08, 2014 9:58am – patrick.mccarthy

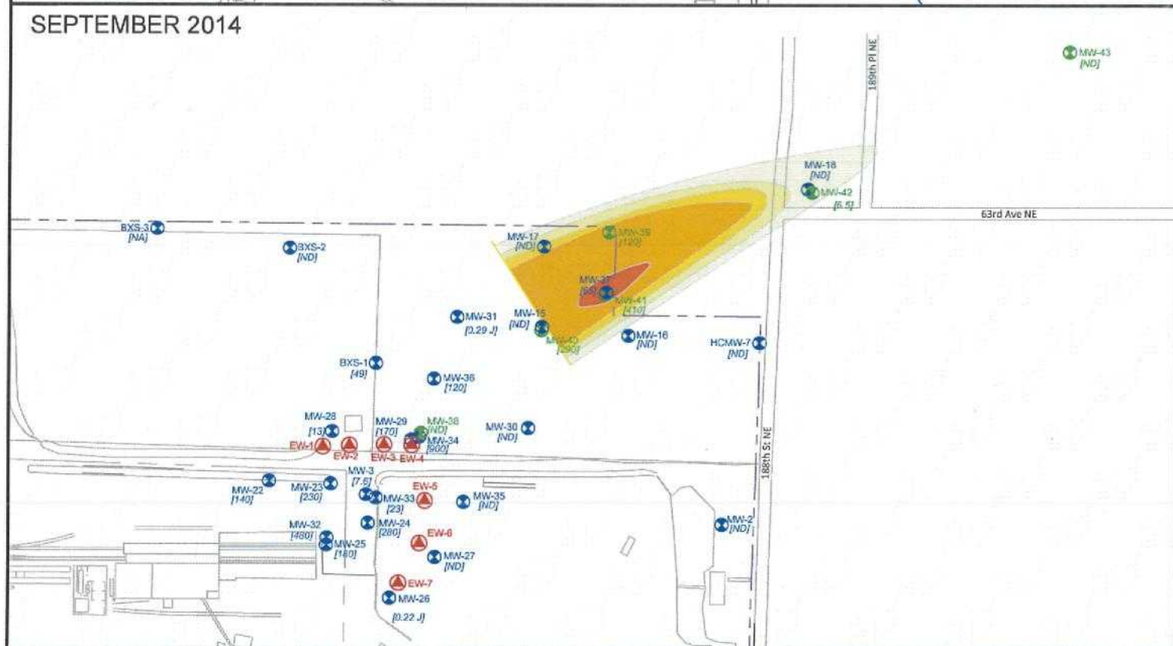


CLIENT: J.H. BAXTER	DWN BY: PM/SD	PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA	DATE: AUGUST 2014
	CHK'D BY: SB		PROJECT NO.: 461M125612.01.4
	DATUM: -	TITLE: PENTACHLOROPHENOL ISOPLETH MAP JUNE, AUGUST, & DECEMBER 2013 DEEPER ZONE ONLY	REV. NO.: A
AMEC 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	PROJECTION: -		FIGURE NO.: 37
	SCALE: 1"=250'		

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 37 – PCP Concentration – June2013_Aug2013_Dec2013.dwg – – – Dec. 08, 2014 9:59am – patrick.mccarthy







LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- EXTRACTION WELL
- [12] PCP CONCENTRATION (• g/L)
- SITE BOUNDARY

PCP CONCENTRATION (• g/L)

- 500
- 300
- 100
- 50
- 10
- 1

NOTES:

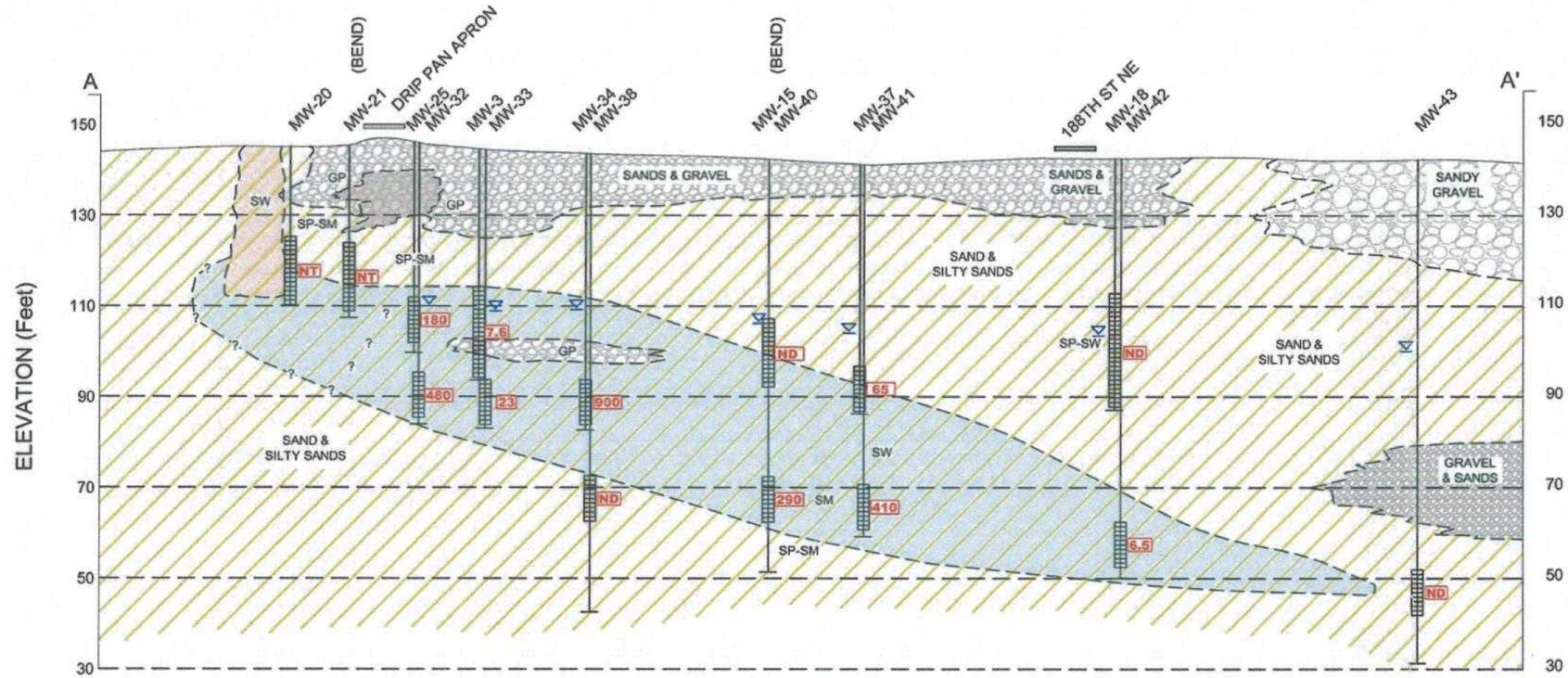
UNITS	• g/L
ND	Undetected
NA	Not Analyzed

0' 175' 250' 325'

1" = 250'

CLIENT: J.H. BAXTER	DWN BY: PM/SD	PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA	DATE: DECEMBER 2014
	CHK'D BY: SB		PROJECT NO.: 461M125612.01.4
	DATUM: -	TITLE: PENTACHLOROPHENOL ISOPLETH MAP MARCH, JUNE, & SEPTEMBER 2014 DEEPER ZONE ONLY	REV. NO.: A
AMEC 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	PROJECTION: -		FIGURE NO.: 38
	SCALE: 1"=250'		

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 38 – PCP Concentration – March2014_Sept_2014.dwg – – – Dec. 09, 2014 8:22am – patrick.mccarthy



LEGEND

- MONITORING WELL CLUSTER, IDENTIFIER, AND SCREEN INTERVAL
- INFERRED LITHOLOGIC CONTACT
- 340 PENTACHLOROPHENOL CONCENTRATION IN µg/L
- NT NOT TESTED
- ND NOT DETECTED
- APPROXIMATE WATER LEVEL ON SEPTEMBER 28 & 29, 2014
- RESIDUAL LNAPL
- WOOD DEBRIS
- APPROXIMATE EXTENT OF PCP IN GROUNDWATER (~>1)

VERTICAL SCALE: 1" = 30'

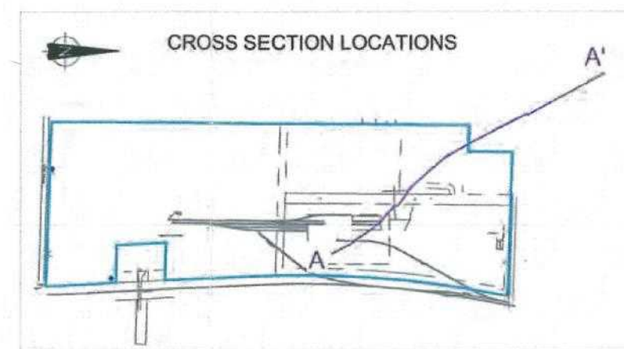
0' 15' 30' 45'

1" = 30'

HORIZONTAL SCALE: 1" = 225'
EXAGGERATION 7.5x

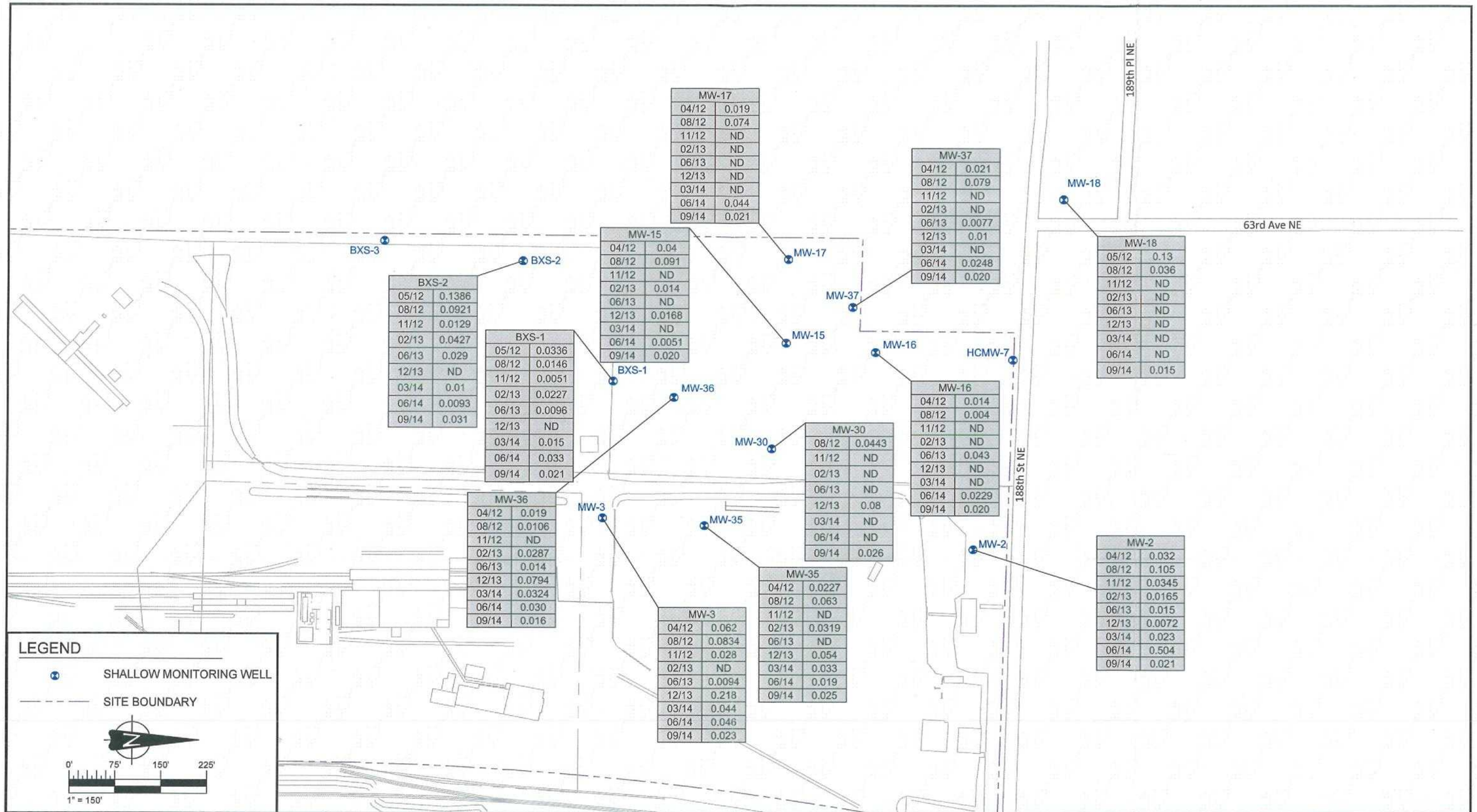
0' 112.5' 225' 337.5'

1" = 225'



CLIENT: J.H. BAXTER	DWN BY: PM	PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA	DATE: DECEMBER 2014
	CHK'D BY: SB		PROJECT NO. 361M125612.01.4
AMEC 7376 S.W. Durham Road Portland, OR. U.S.A. 97224	DATUM: -	TITLE: CROSS SECTION A-A' PENTACHLOROPHENOL IN GROUNDWATER SEPTEMBER 2014	REV. NO.: -
	PROJECTION: -		FIGURE No. 39
	SCALE: AS SHOWN		

K:\12000\12500\12561\125612\DWG\3Q2014\Figure 39 - Cross Section A-A' - PCP in Groundwater - 20143Q.dwg - Layout1 - Dec. 04, 2014 10:31am - patrick.mccarthy



MW-17	
04/12	0.019
08/12	0.074
11/12	ND
02/13	ND
06/13	ND
12/13	ND
03/14	ND
06/14	0.044
09/14	0.021

MW-37	
04/12	0.021
08/12	0.079
11/12	ND
02/13	ND
06/13	0.0077
12/13	0.01
03/14	ND
06/14	0.0248
09/14	0.020

MW-18	
05/12	0.13
08/12	0.036
11/12	ND
02/13	ND
06/13	ND
12/13	ND
03/14	ND
06/14	ND
09/14	0.015

MW-15	
04/12	0.04
08/12	0.091
11/12	ND
02/13	0.014
06/13	ND
12/13	0.0168
03/14	ND
06/14	0.0051
09/14	0.020

BXS-2	
05/12	0.1386
08/12	0.0921
11/12	0.0129
02/13	0.0427
06/13	0.029
12/13	ND
03/14	0.01
06/14	0.0093
09/14	0.031

BXS-1	
05/12	0.0336
08/12	0.0146
11/12	0.0051
02/13	0.0227
06/13	0.0096
12/13	ND
03/14	0.015
06/14	0.033
09/14	0.021

MW-16	
04/12	0.014
08/12	0.004
11/12	ND
02/13	ND
06/13	0.043
12/13	ND
03/14	ND
06/14	0.0229
09/14	0.020

MW-30	
08/12	0.0443
11/12	ND
02/13	ND
06/13	ND
12/13	0.08
03/14	ND
06/14	ND
09/14	0.026

MW-36	
04/12	0.019
08/12	0.0106
11/12	ND
02/13	0.0287
06/13	0.014
12/13	0.0794
03/14	0.0324
06/14	0.030
09/14	0.016

MW-35	
04/12	0.0227
08/12	0.063
11/12	ND
02/13	0.0319
06/13	ND
12/13	0.054
03/14	0.033
06/14	0.019
09/14	0.025

MW-3	
04/12	0.062
08/12	0.0834
11/12	0.028
02/13	ND
06/13	0.0094
12/13	0.218
03/14	0.044
06/14	0.046
09/14	0.023

MW-2	
04/12	0.032
08/12	0.105
11/12	0.0345
02/13	0.0165
06/13	0.015
12/13	0.0072
03/14	0.023
06/14	0.504
09/14	0.021

NOTES:
UNITS µg/L
ND Undetected
NA Not Analyzed

CLIENT: J.H. BAXTER

AMEC
7376 S.W. Durham Road
Portland, OR. U.S.A. 97224

DWN BY: PM/SD
CHK'D BY: SB
DATUM: -
PROJECTION: -
SCALE: 1"=150'

PROJECT: FORMER J.H. BAXTER AND CO. WOOD TREATING FACILITY ARLINGTON, WA

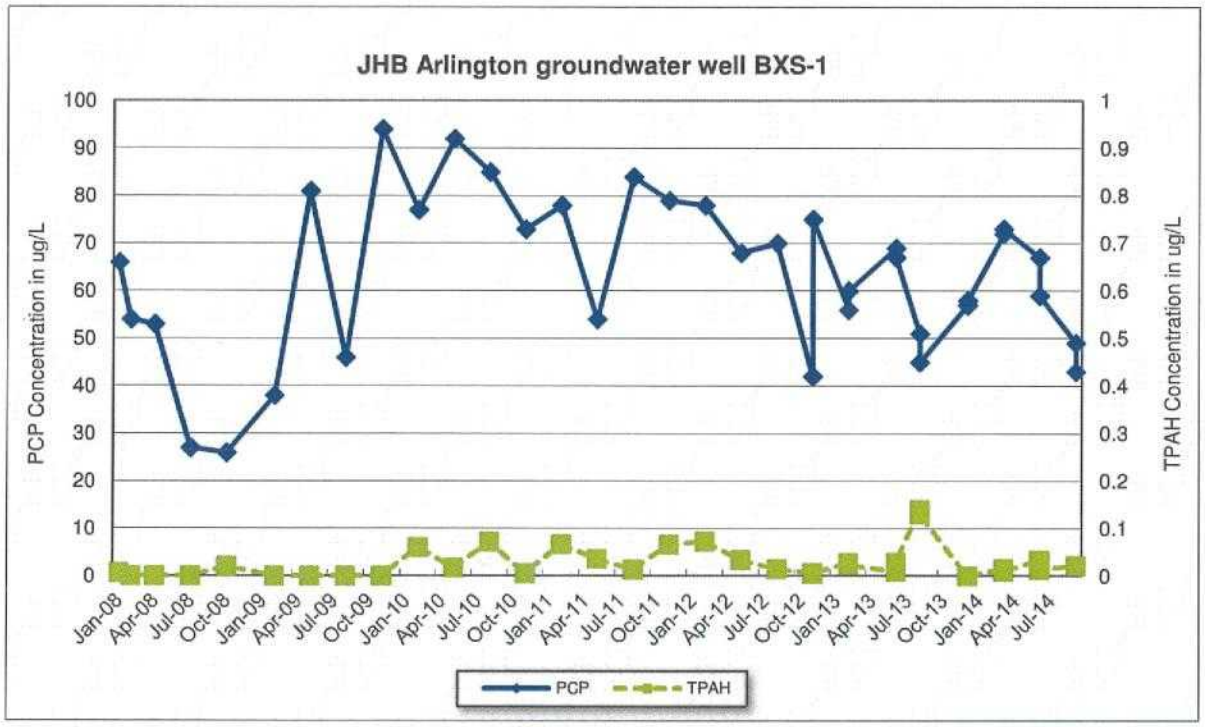
TITLE: TOTAL PAHs IN GROUNDWATER APRIL 2012 - SEPTEMBER 2014

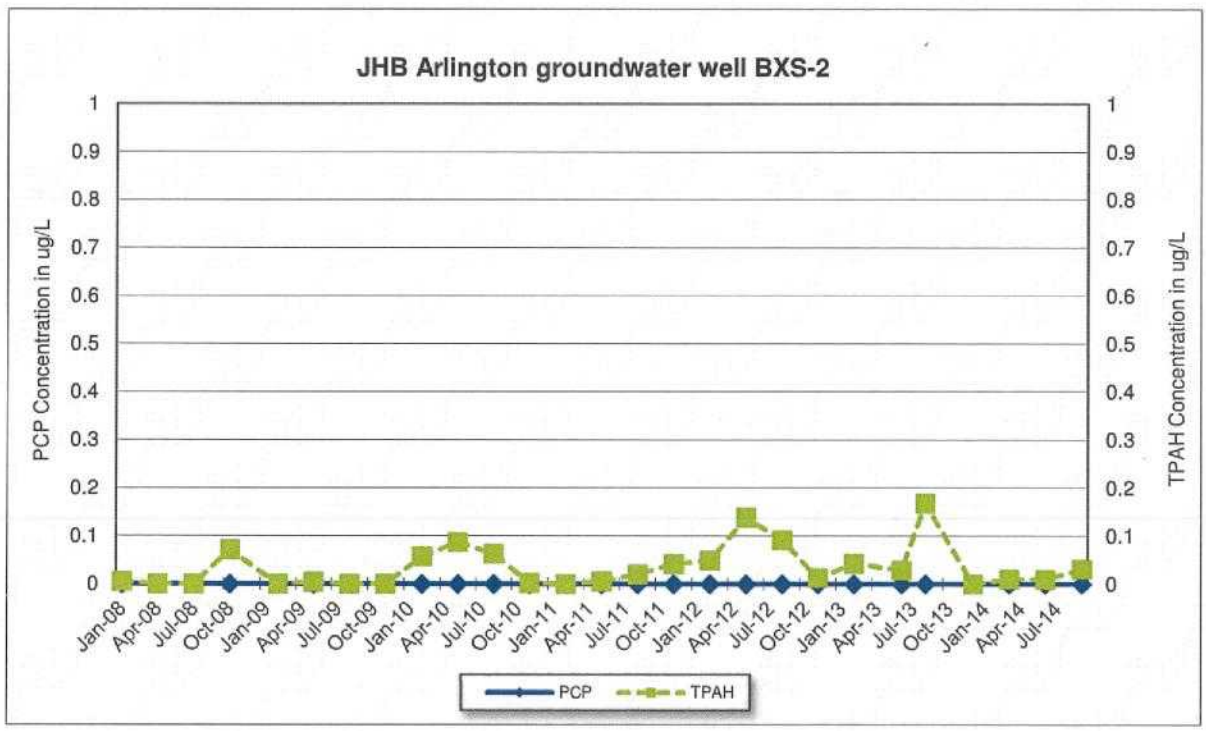
DATE: DECEMBER 2014
PROJECT NO.: 461M125612.01.4
REV. NO.: A
FIGURE NO.: 40

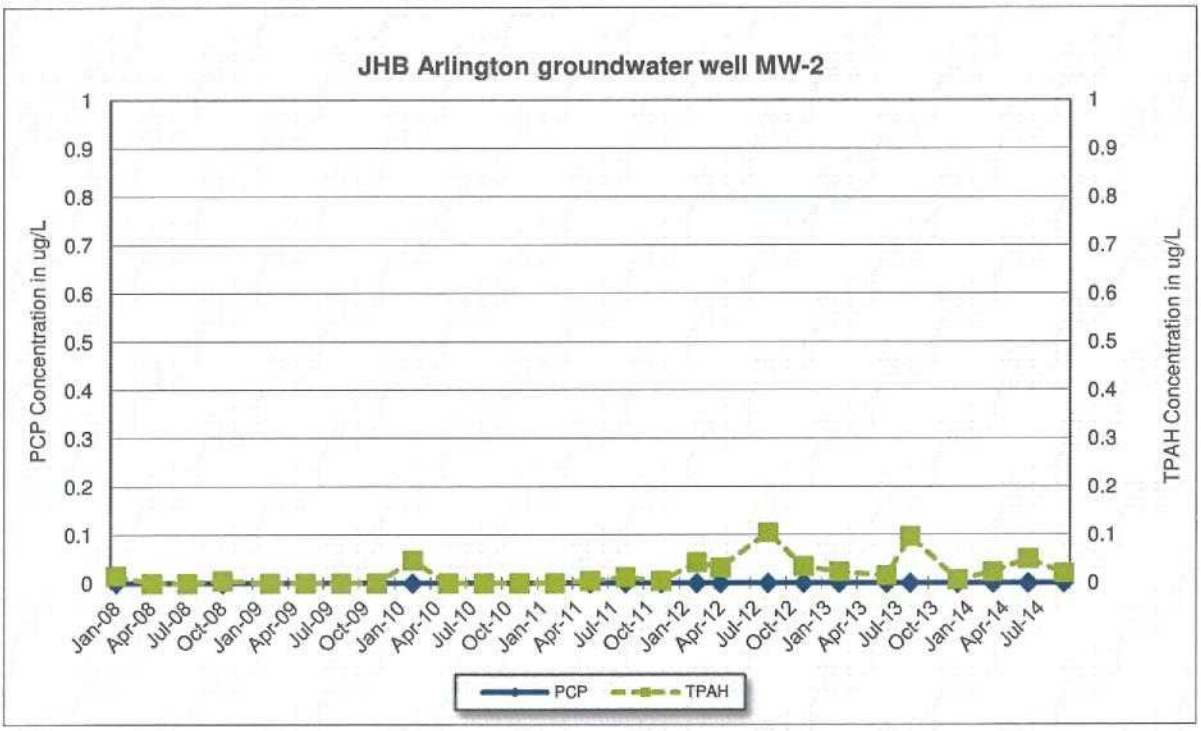
K:\12000\12500\12561\125612\DWG\3Q2014\Figure 7-40 - 20143Q.dwg - -40 - Dec. 12, 2014 12:16pm - patrick.mccarthy

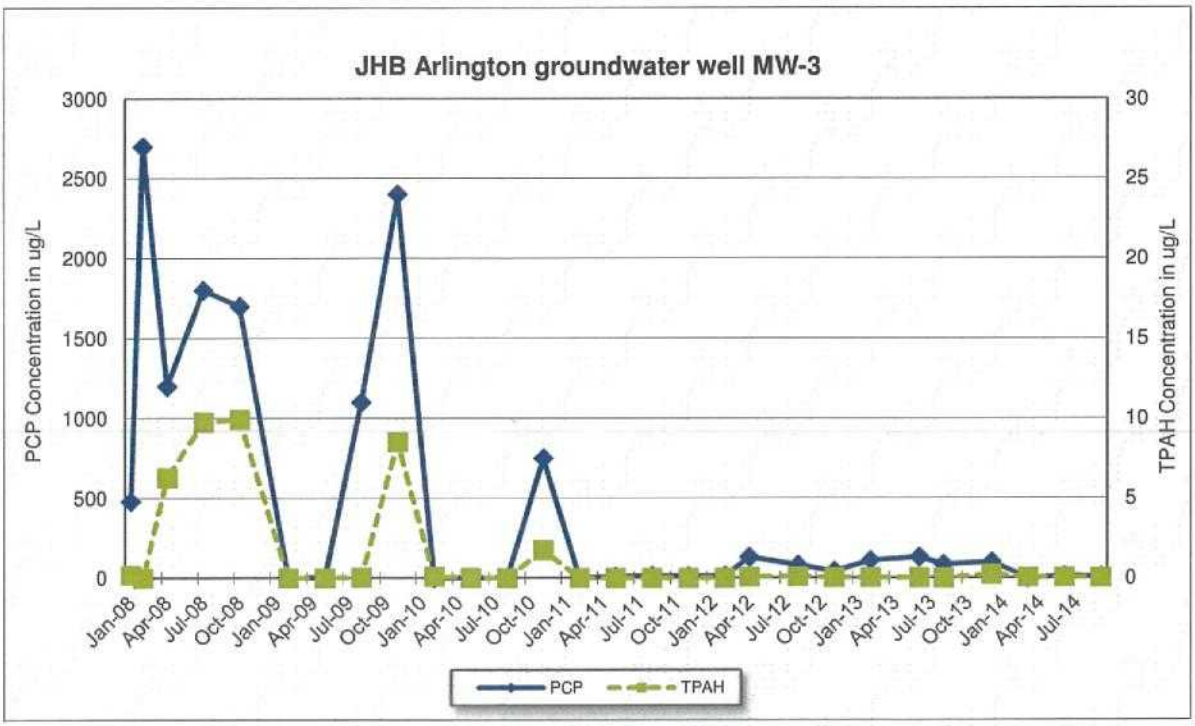
APPENDIX A

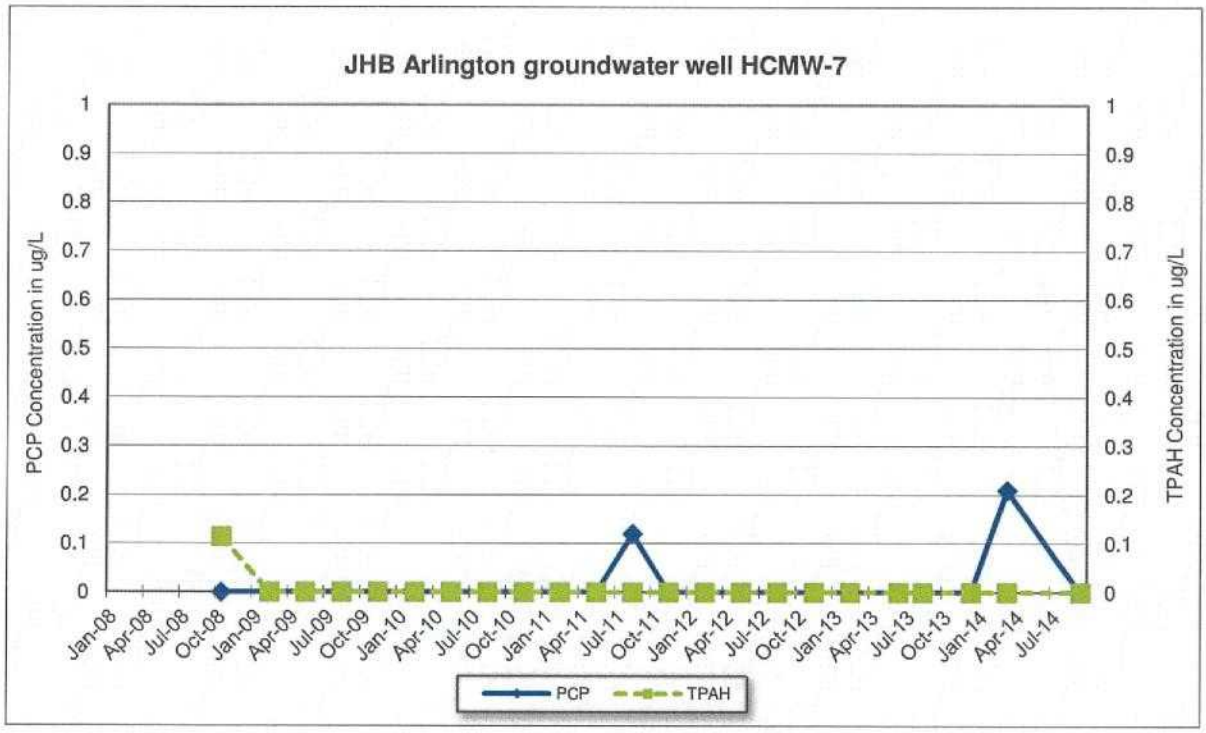
Time Series Plots - PCP and TPAH in Groundwater

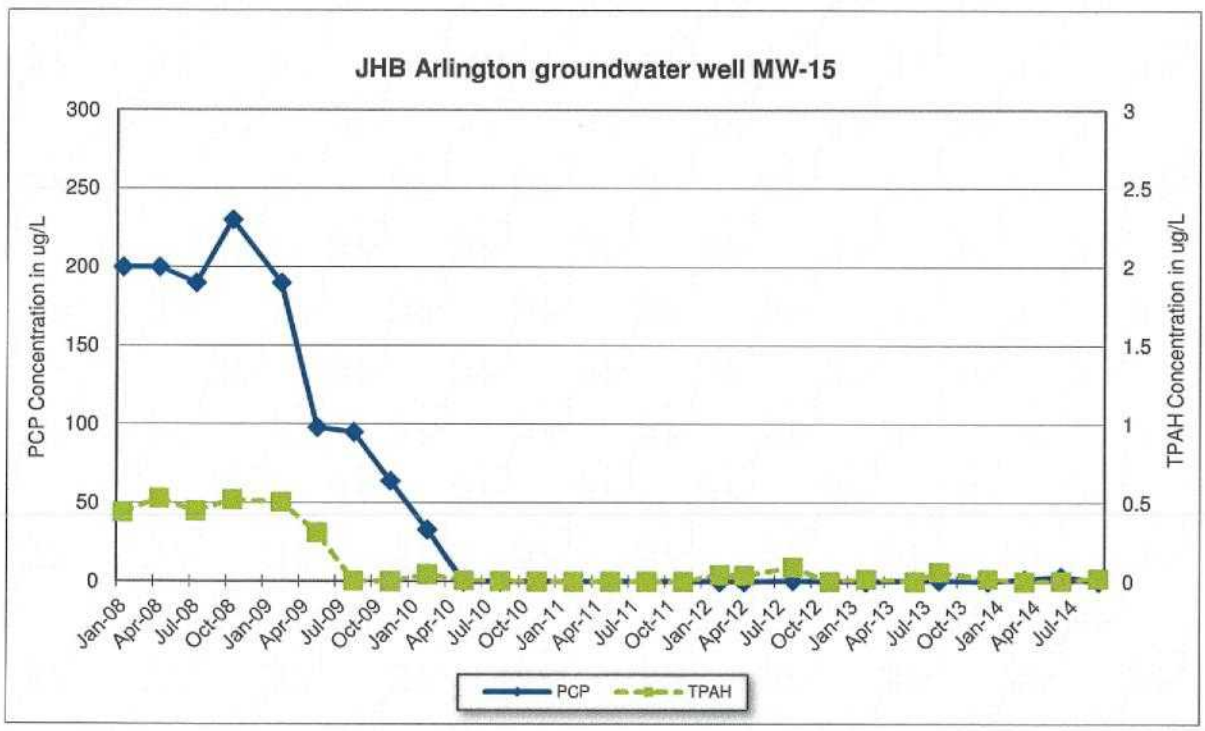

JHB Arlington groundwater well BXS-1
PCP Concentration in ug/L
TPAH Concentration in ug/L
100
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

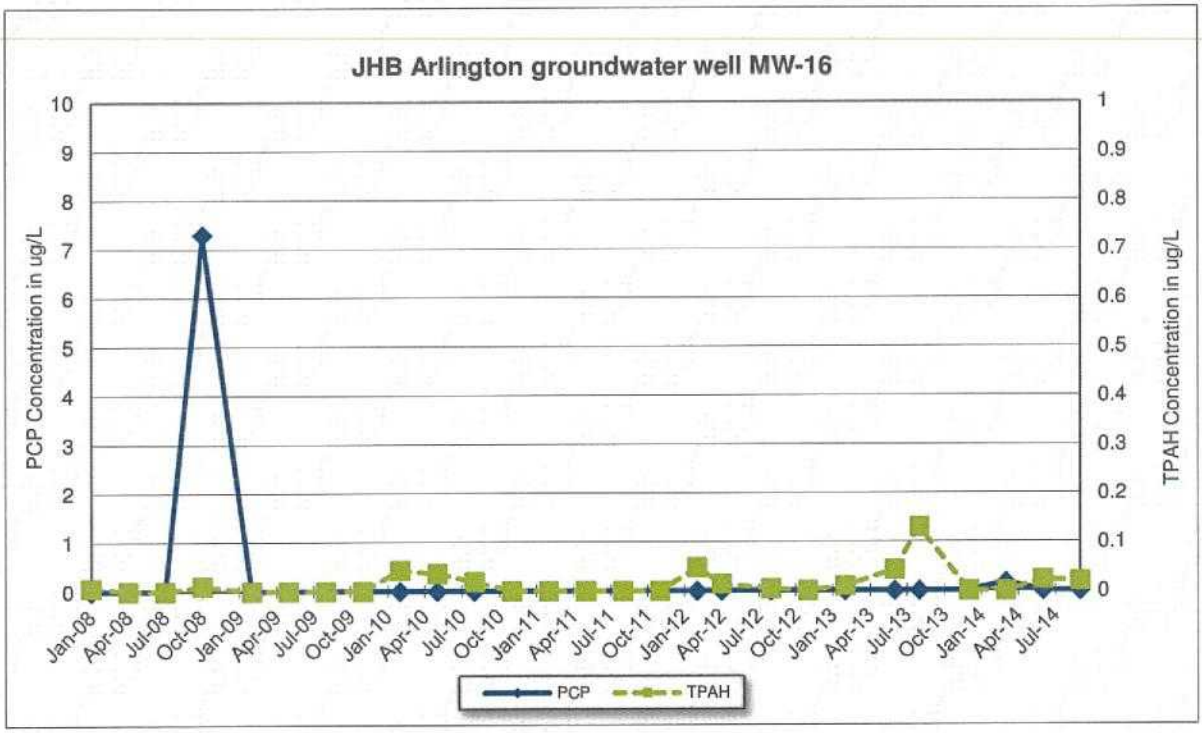

JHB Arlington groundwater well BXS-2
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

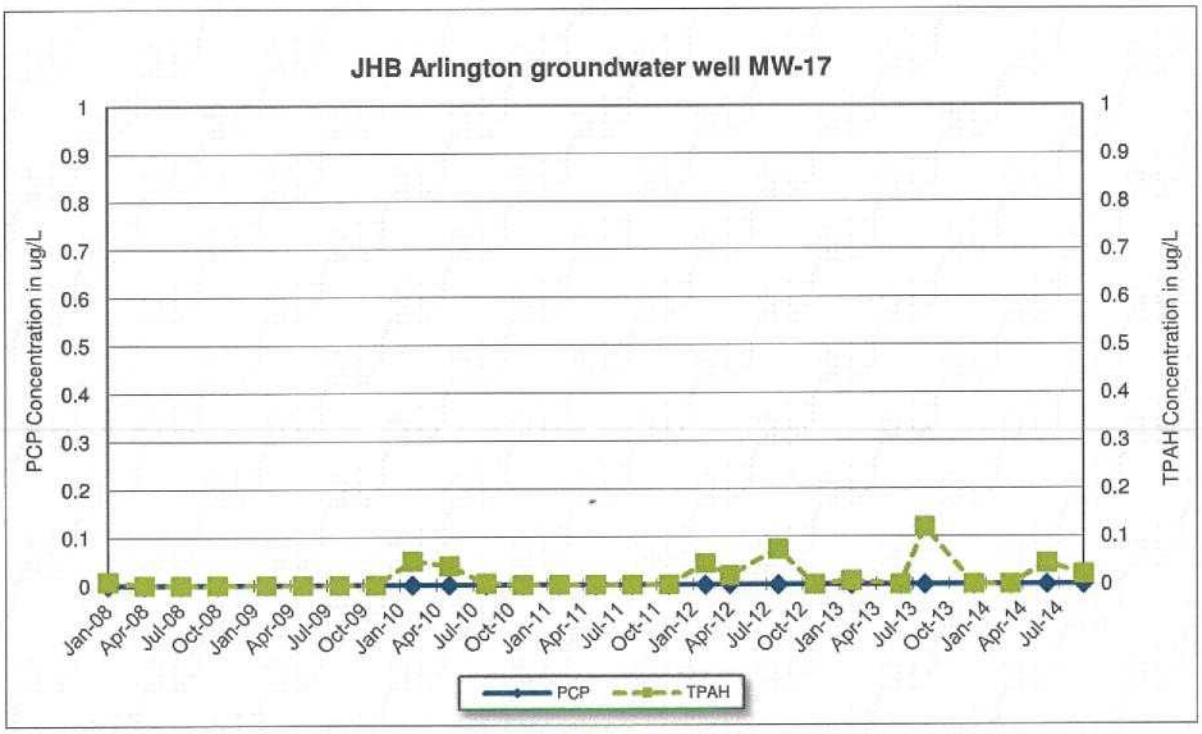

JHB Arlington groundwater well MW-2
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

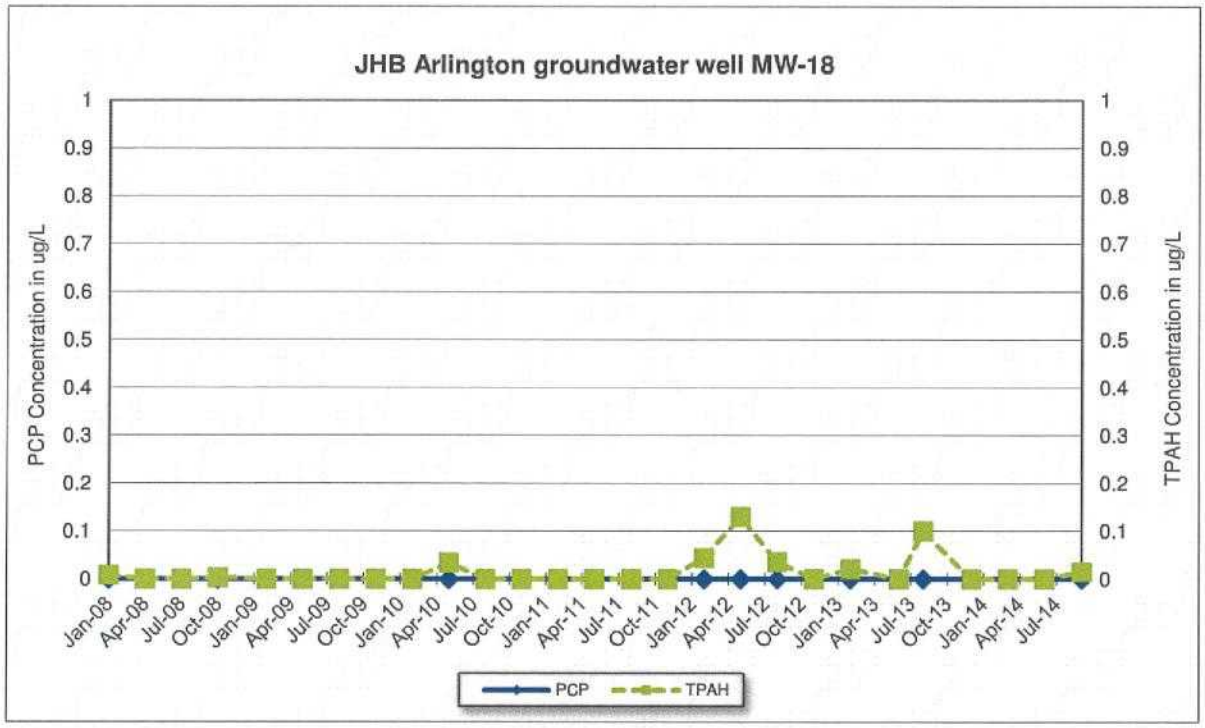

JHB Arlington groundwater well MW-3
PCP Concentration in ug/L
TPAH Concentration in ug/L
3000
2500
2000
1500
1000
500
0
30
25
20
15
10
5
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

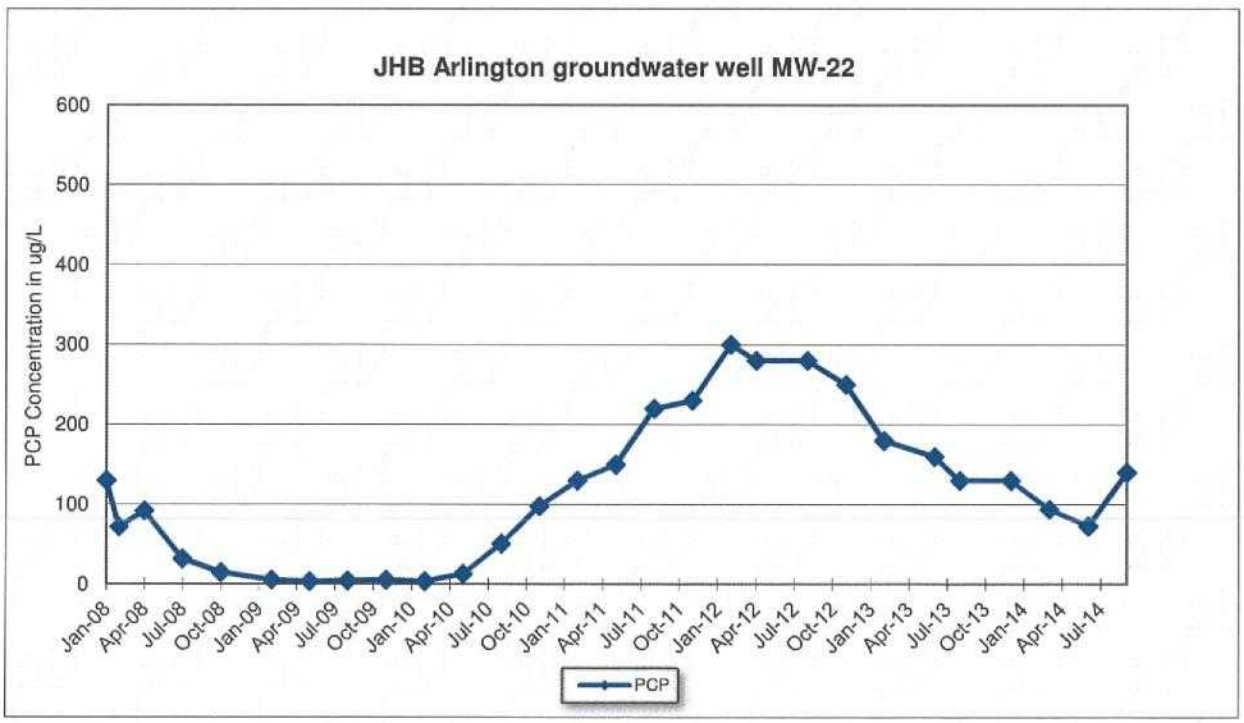

JHB Arlington groundwater well HCMW-7
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

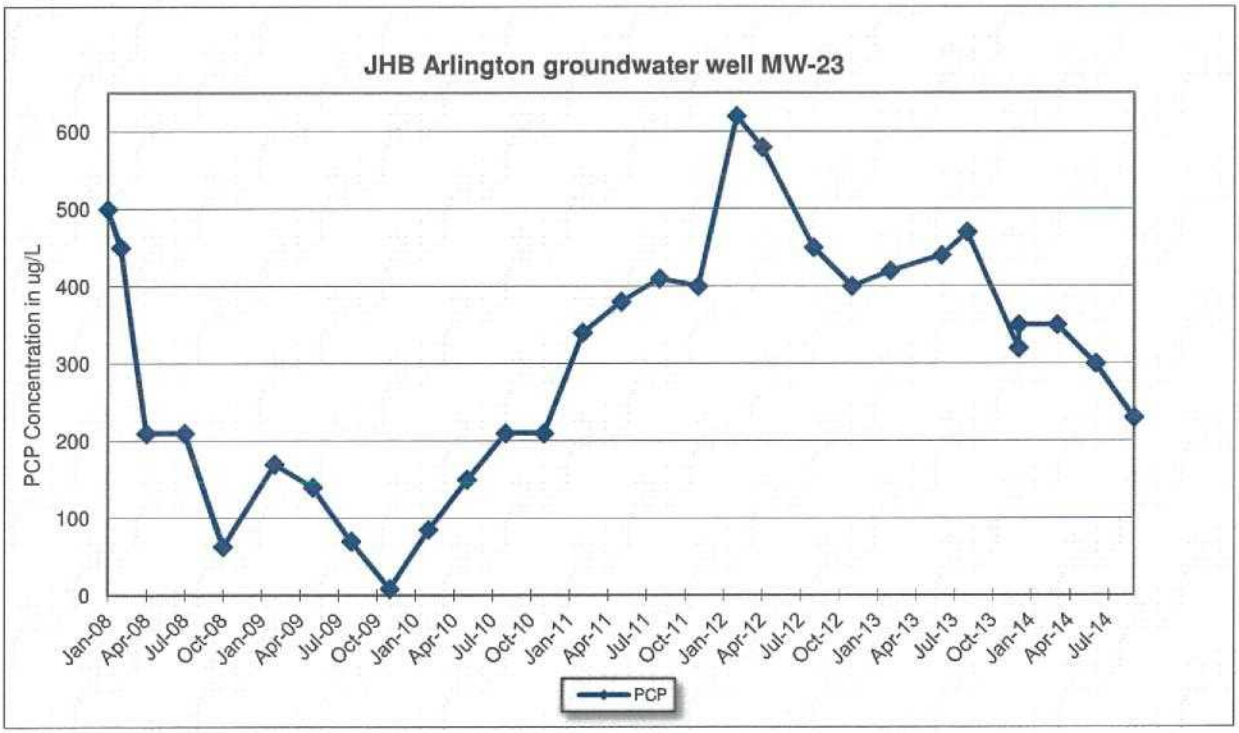

JHB Arlington groundwater well MW-15
PCP Concentration in ug/L
TPAH Concentration in ug/L
300
250
200
150
100
50
0
3
2.5
2
1.5
1
0.5
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

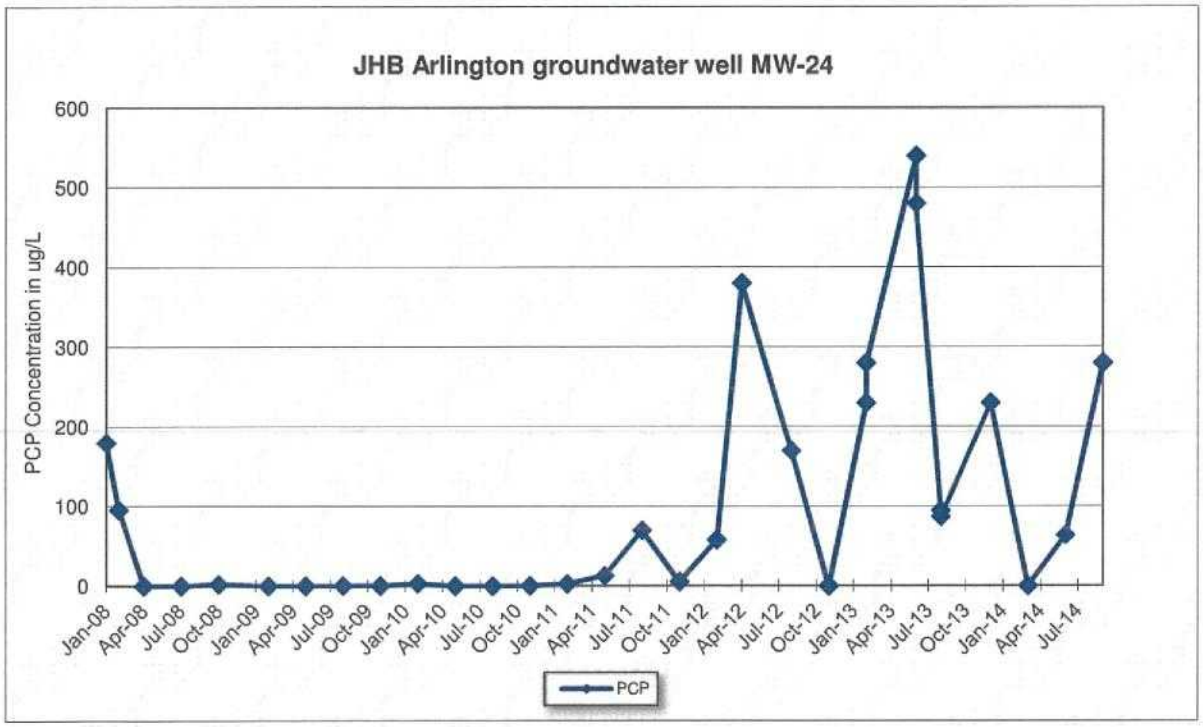

JHB Arlington groundwater well MW-16
PCP Concentration in ug/L
TPAH Concentration in ug/L
10
9
8
7
6
5
4
3
2
1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

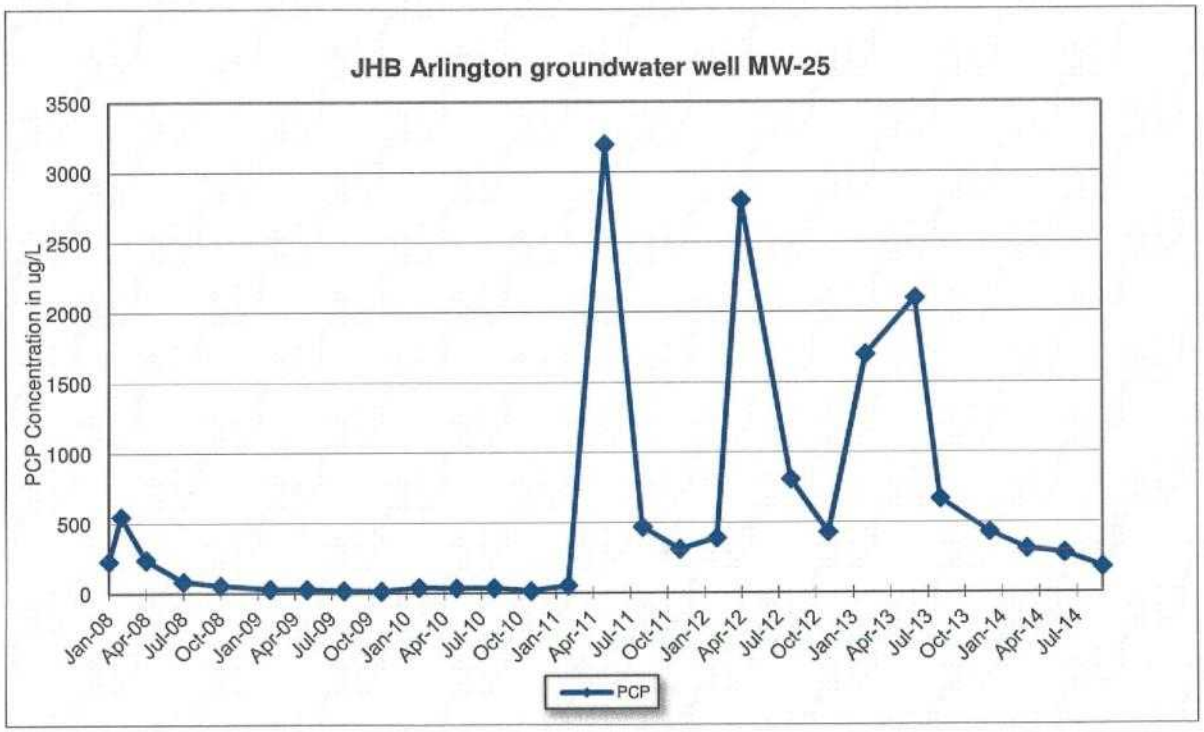

JHB Arlington groundwater well MW-17
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

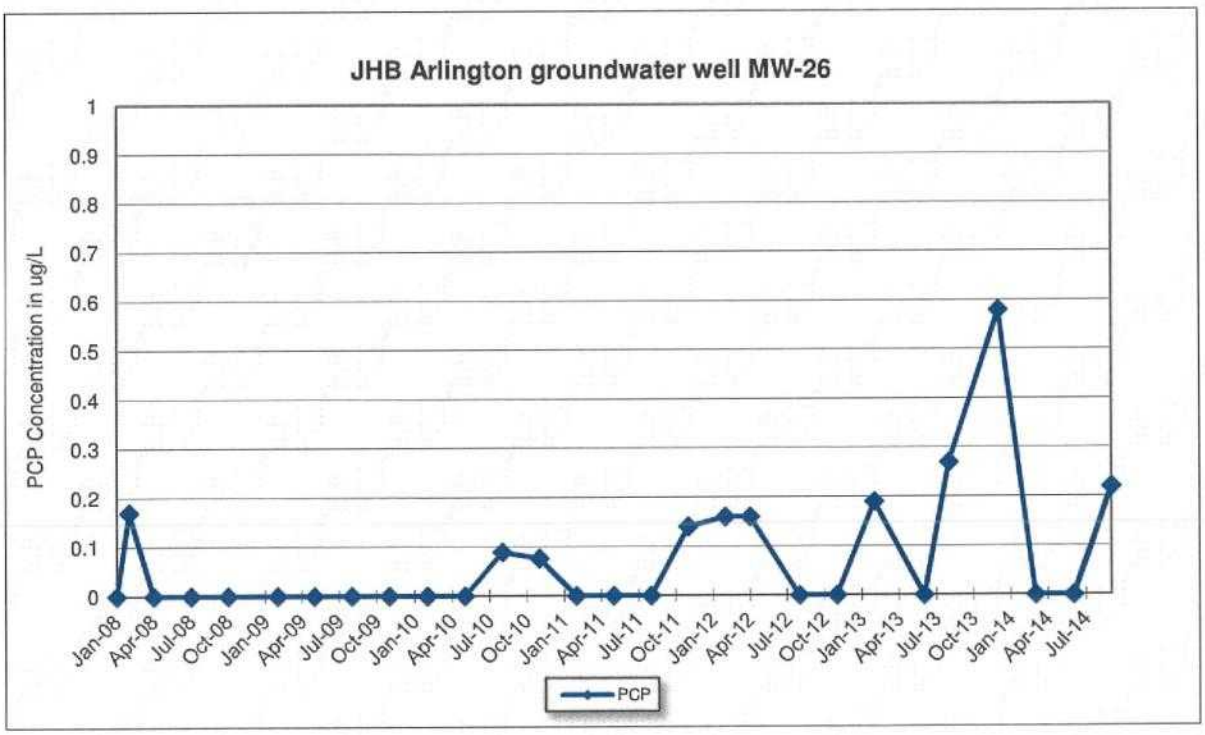

JHB Arlington groundwater well MW-18
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

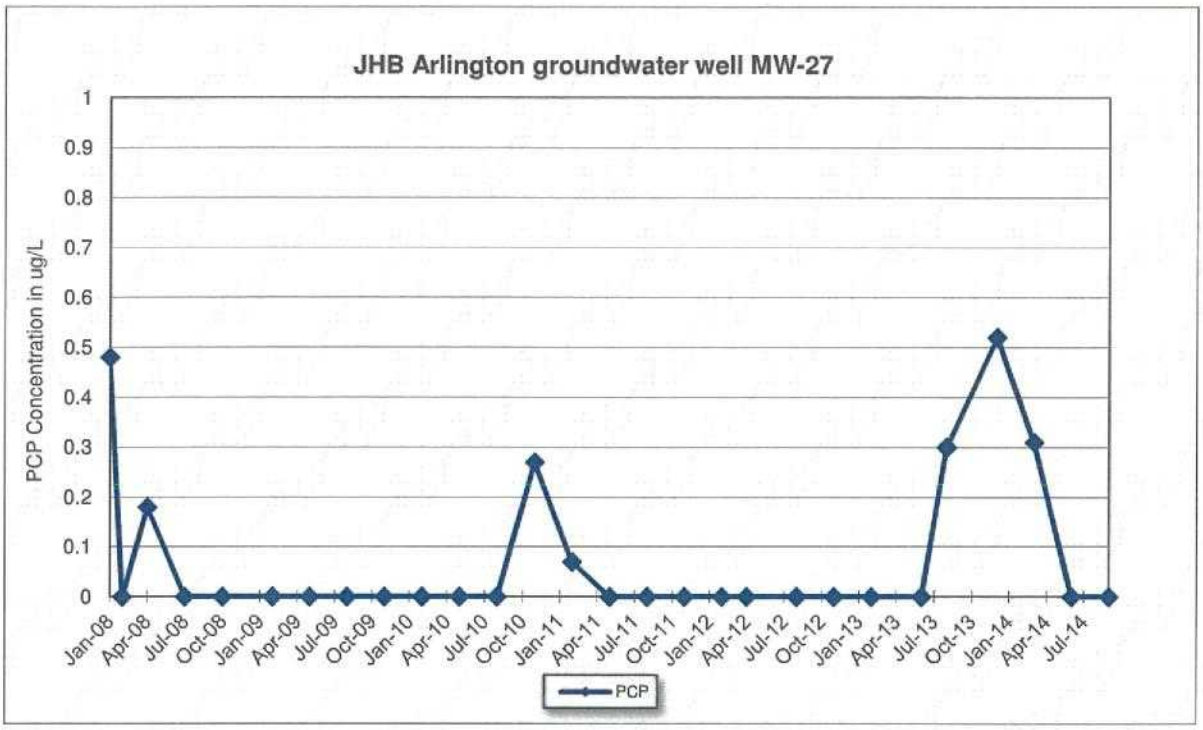

JHB Arlington groundwater well MW-22
PCP Concentration in ug/L
600
500
400
300
200
100
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

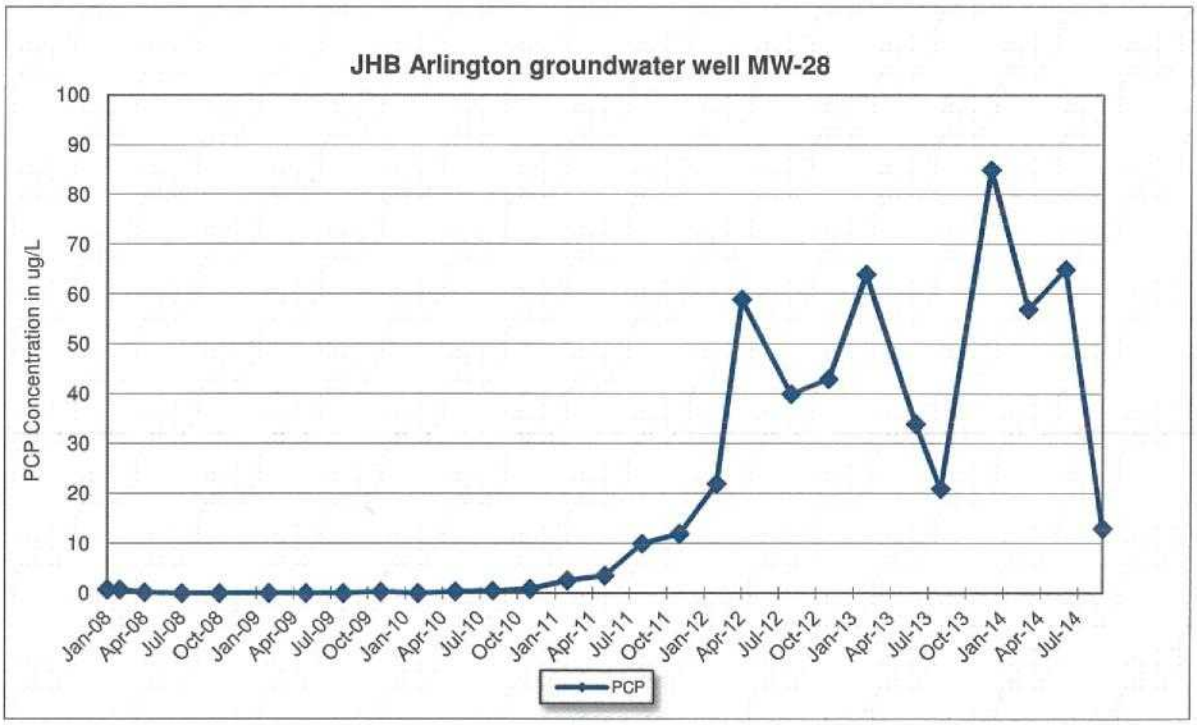

JHB Arlington groundwater well MW-23
PCP Concentration in ug/L
0
100
200
300
400
500
600
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

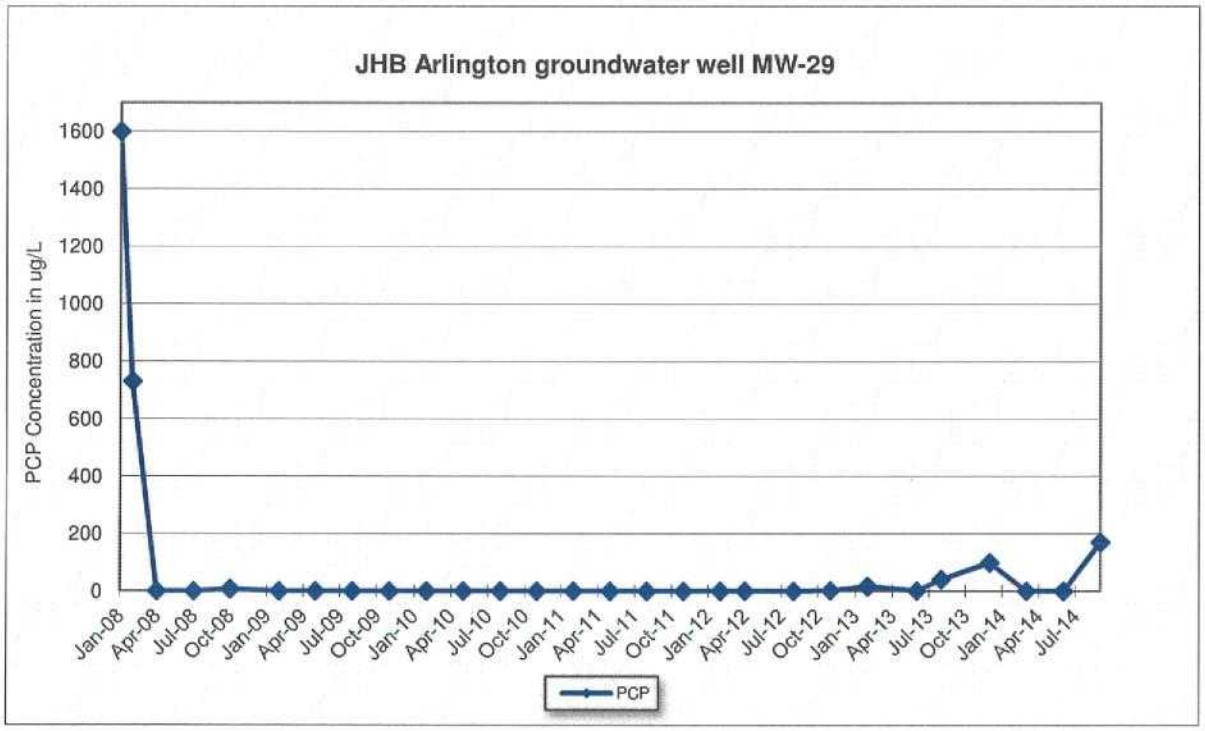

JHB Arlington groundwater well MW-24
PCP Concentration in ug/L
0
100
200
300
400
500
600
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

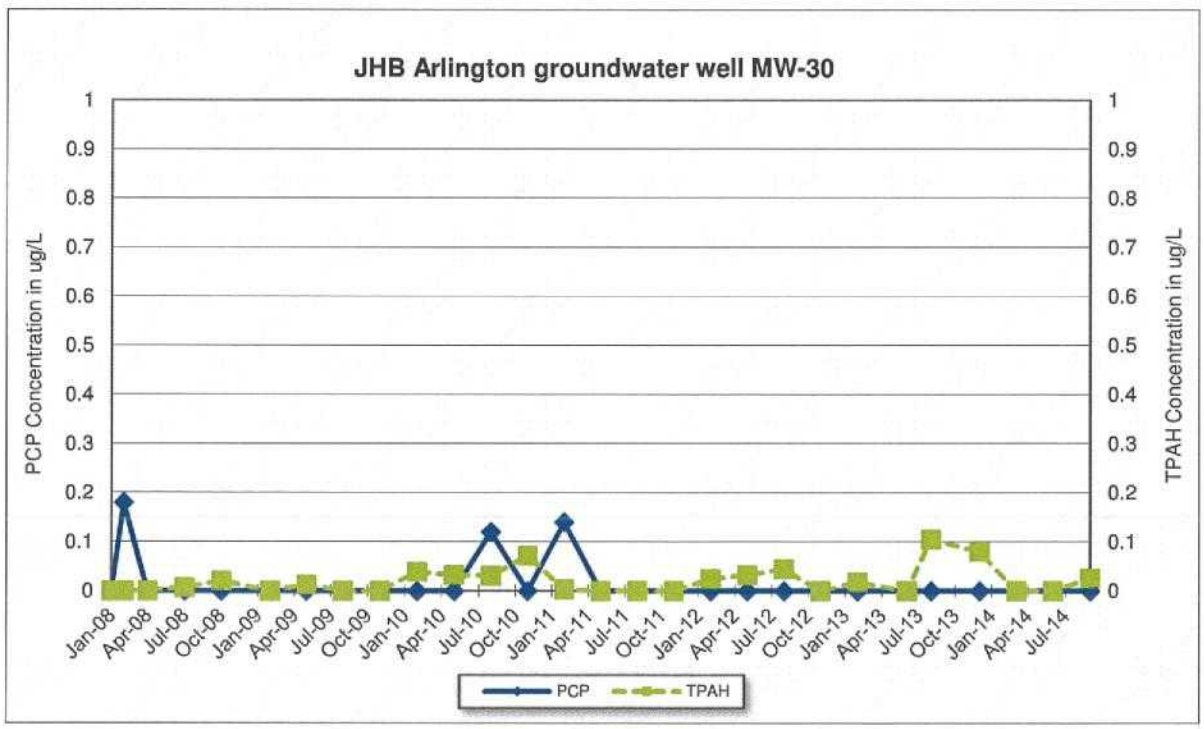

JHB Arlington groundwater well MW-25
PCP Concentration in ug/L
3500
3000
2500
2000
1500
1000
500
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

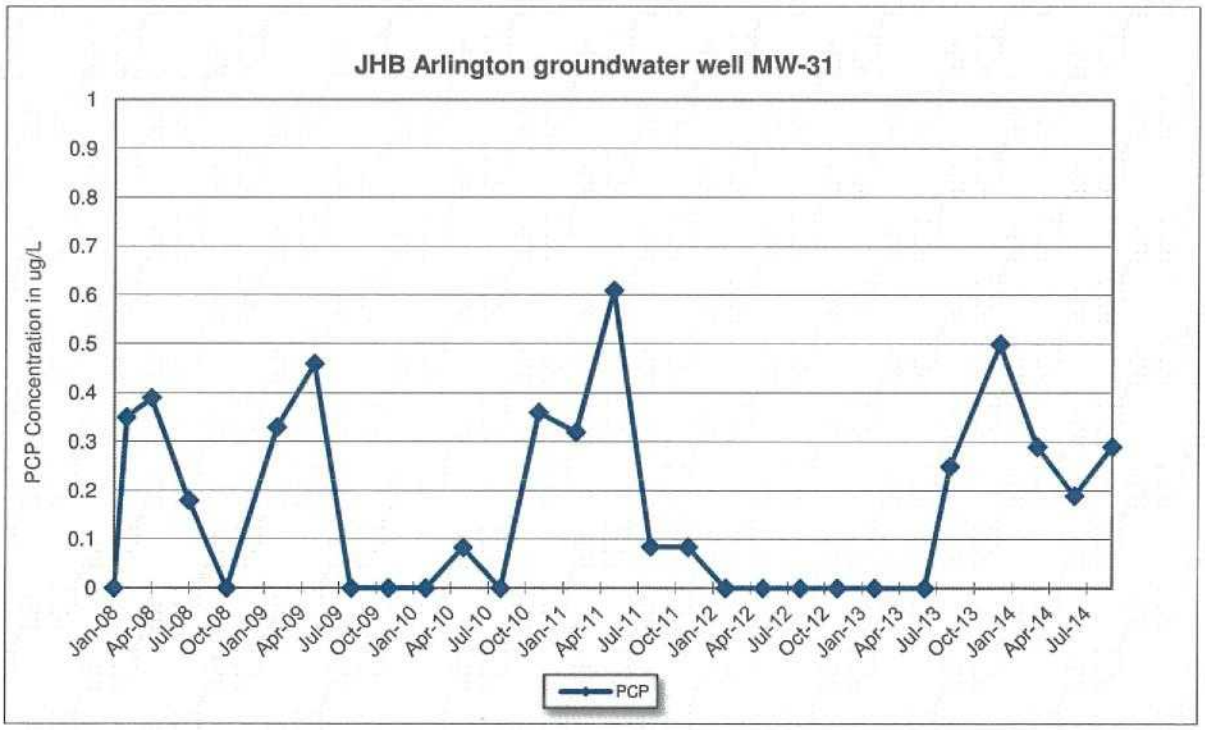

JHB Arlington groundwater well MW-26
PCP Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

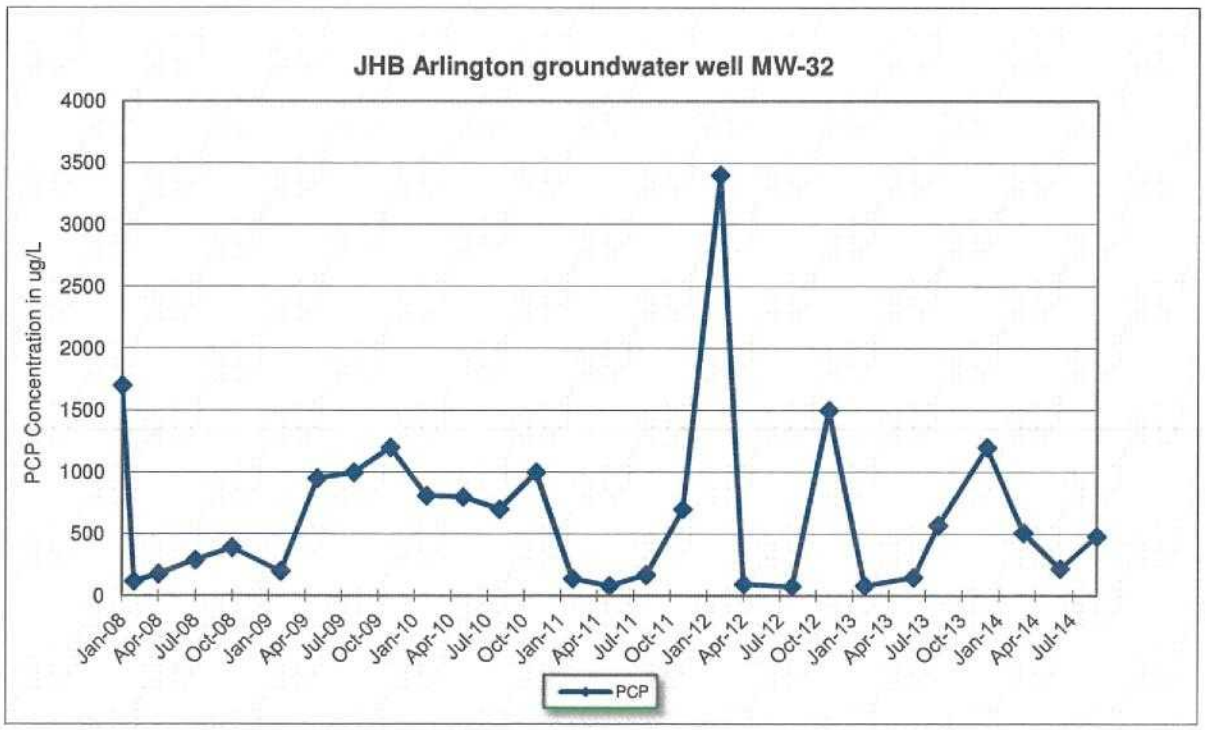

JHB Arlington groundwater well MW-27
PCP Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

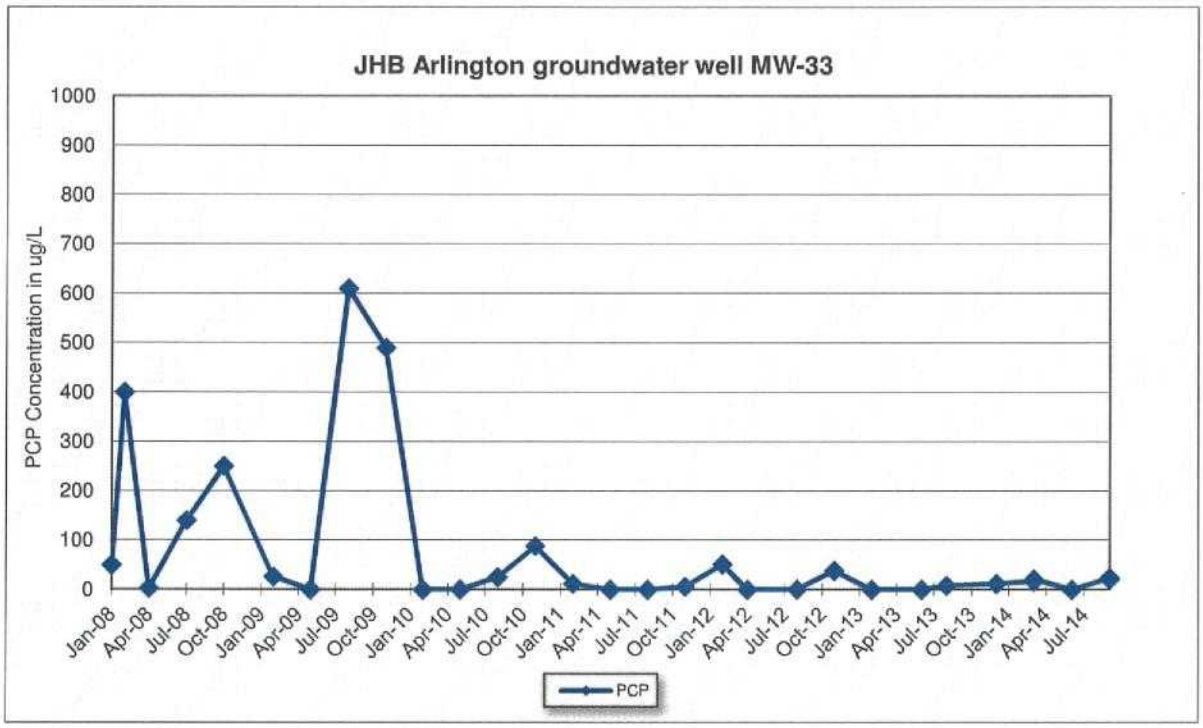

JHB Arlington groundwater well MW-28
PCP Concentration in ug/L
100
90
80
70
60
50
40
30
20
10
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

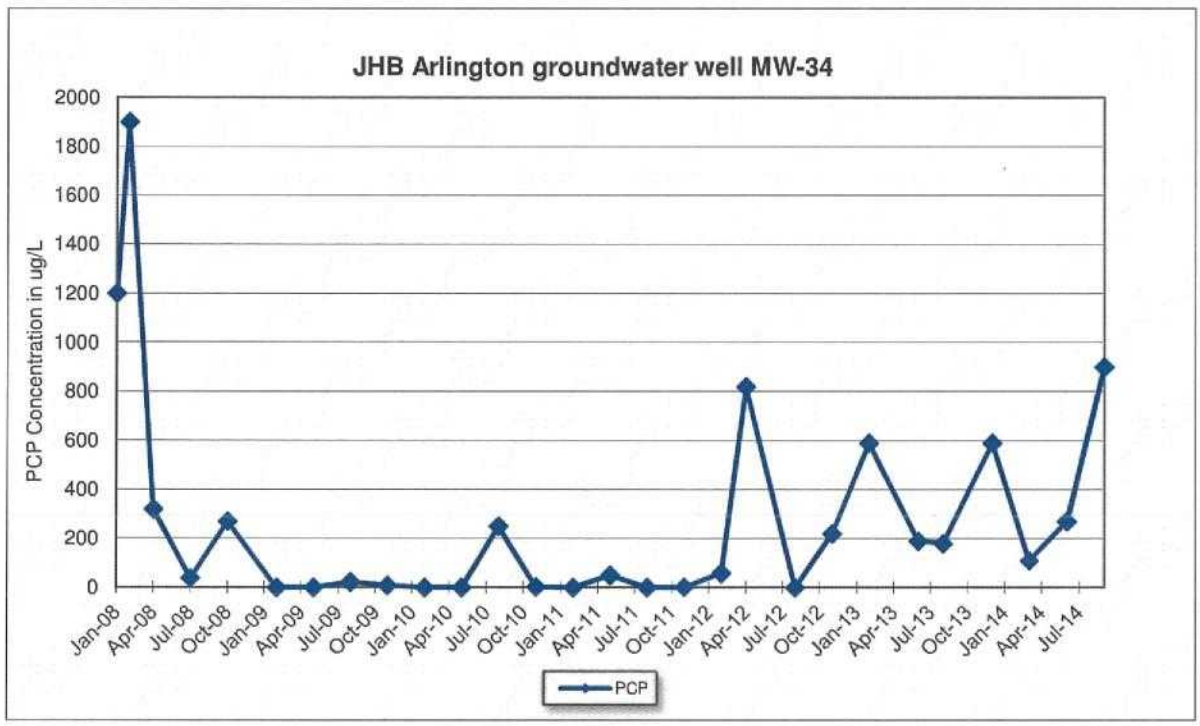

JHB Arlington groundwater well MW-29
PCP Concentration in ug/L
1600
1400
1200
1000
800
600
400
200
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

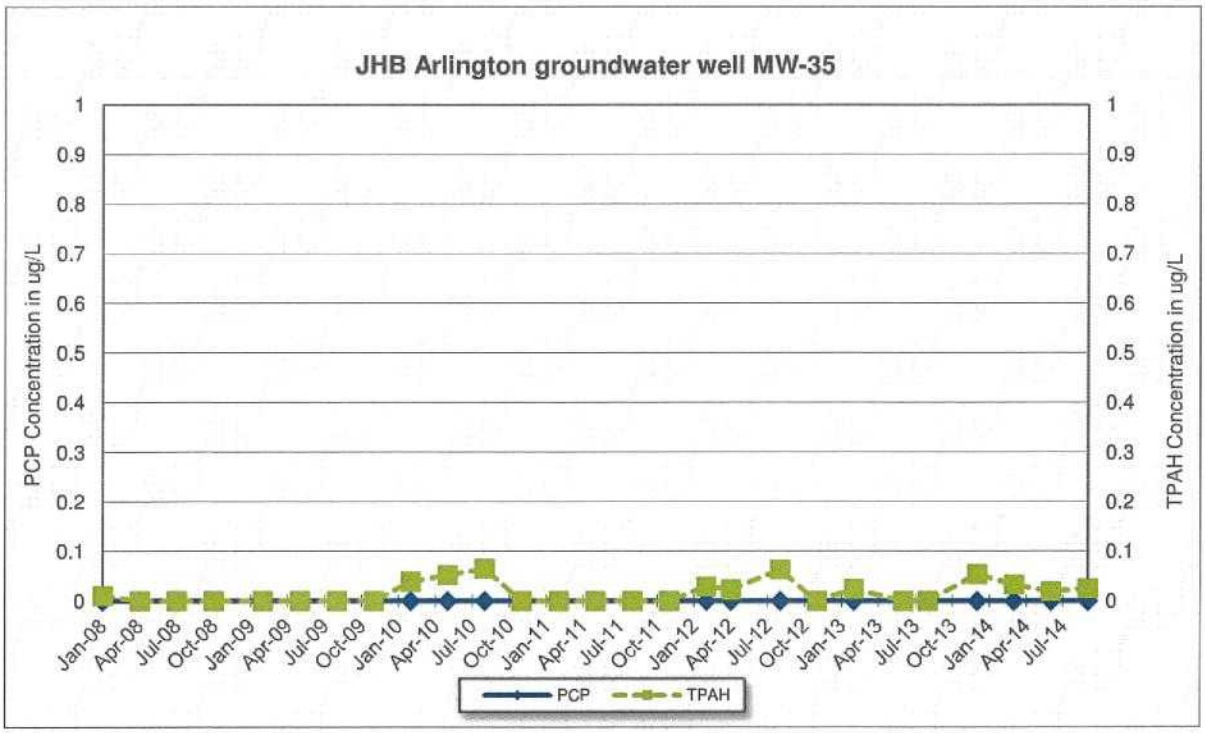

JHB Arlington groundwater well MW-30
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

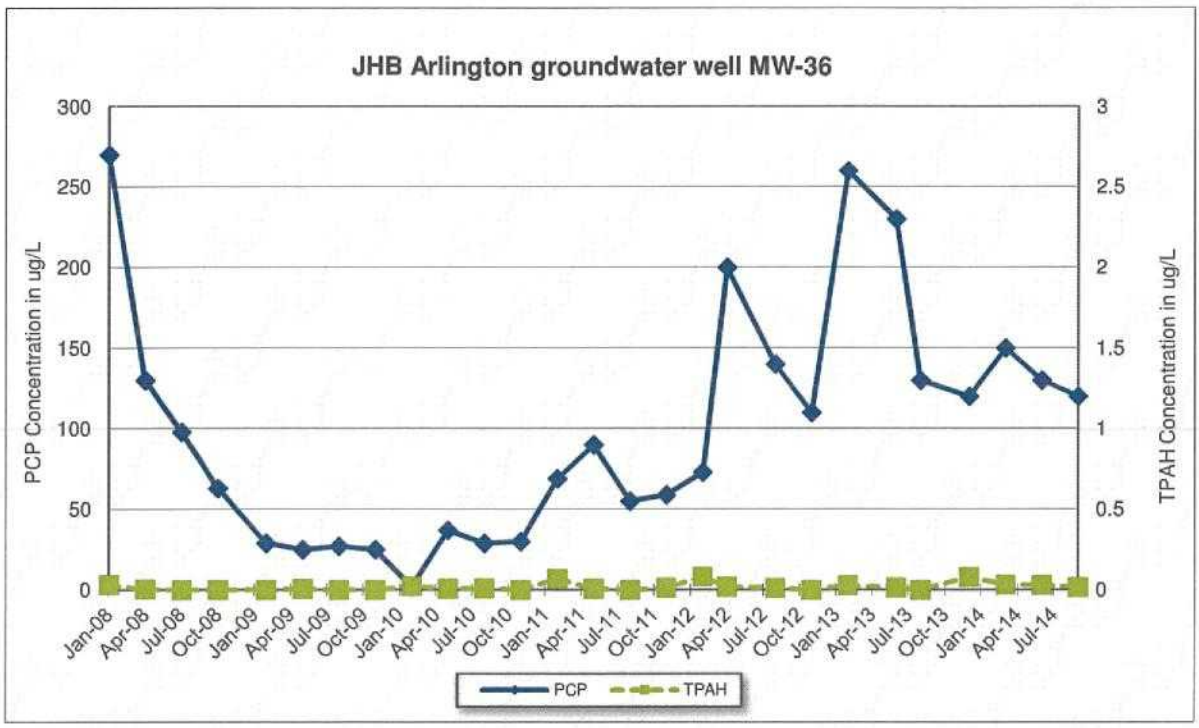

JHB Arlington groundwater well MW-31
PCP Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP

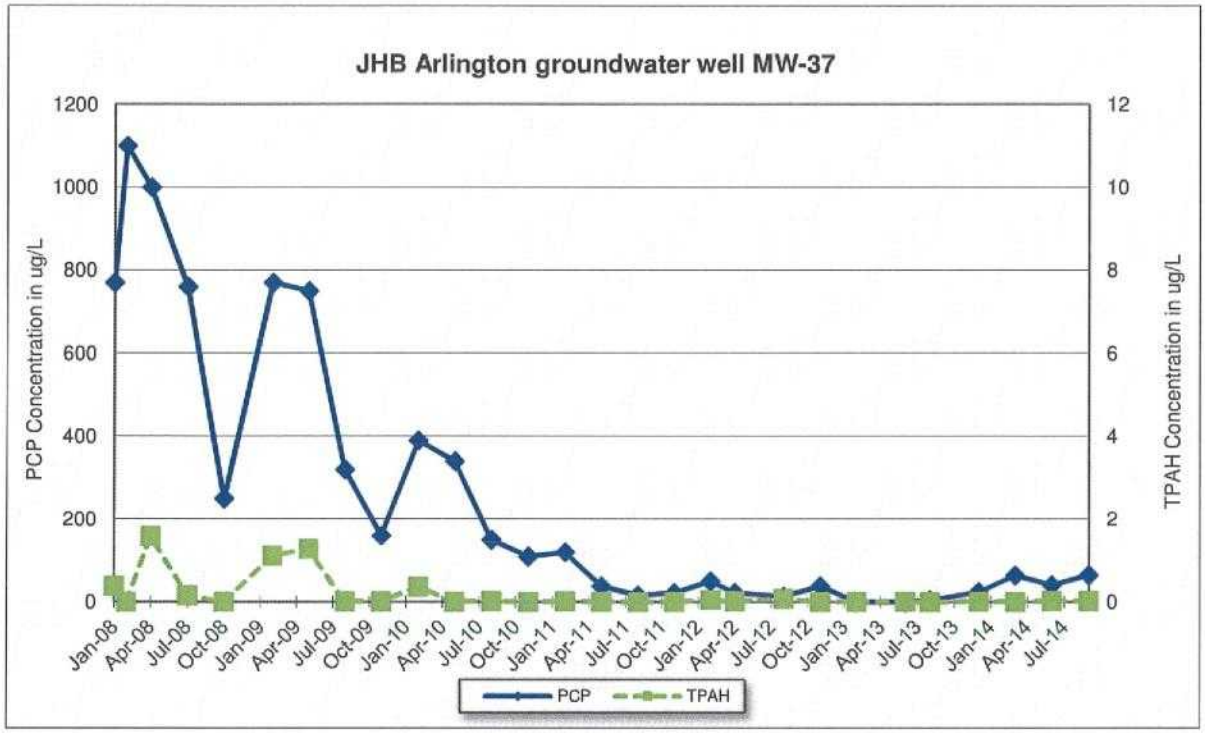

JHB Arlington groundwater well MW-32
PCP Concentration in ug/L
4000
3500
3000
2500
2000
1500
1000
500
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP


JHB Arlington groundwater well MW-33
PCP Concentration in ug/L
1000
900
800
700
600
500
400
300
200
100
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP


JHB Arlington groundwater well MW-34
PCP Concentration in ug/L
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP


JHB Arlington groundwater well MW-35
PCP Concentration in ug/L
TPAH Concentration in ug/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH


JHB Arlington groundwater well MW-36
PCP Concentration in ug/L
TPAH Concentration in ug/L
300
250
200
150
100
50
0
3
2.5
2
1.5
1
0.5
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
Jul-12
Oct-12
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH


JHB Arlington groundwater well MW-37
PCP Concentration in ug/L
TPAH Concentration in ug/L
1200
1000
800
600
400
200
0
12
10
8
6
4
2
0
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Jul-11
Oct-11
Jan-12
Apr-12
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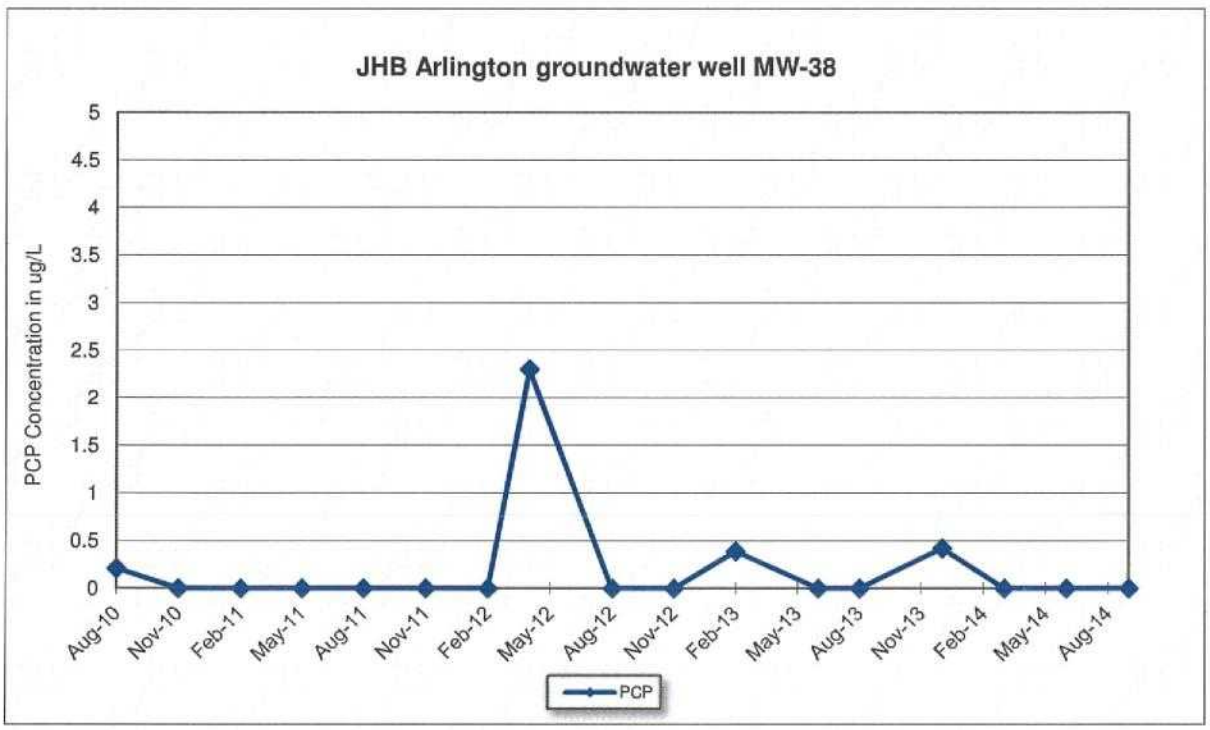
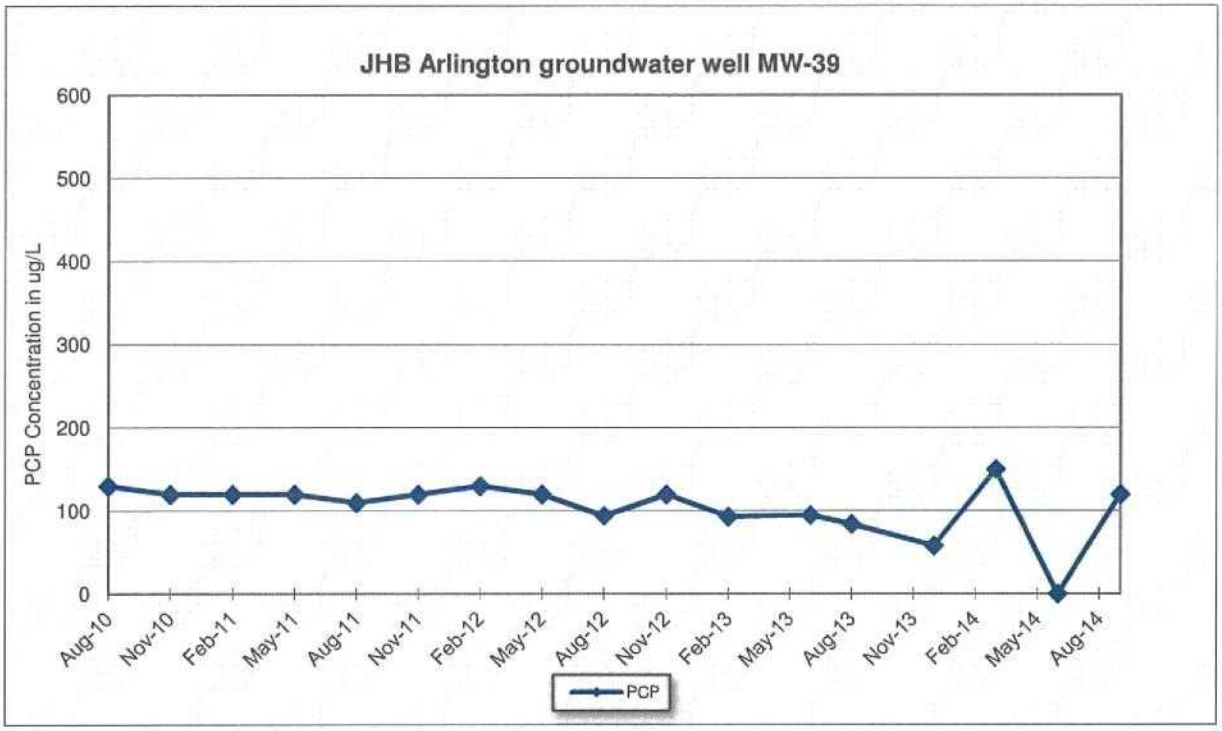
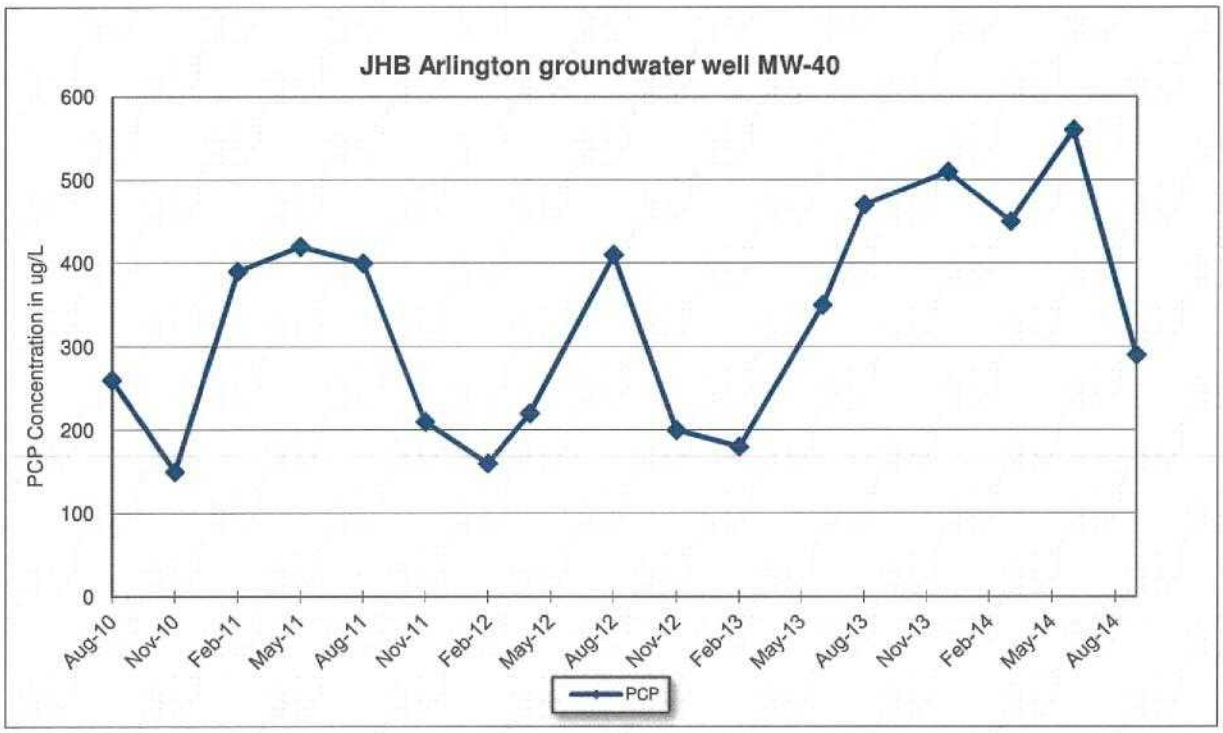
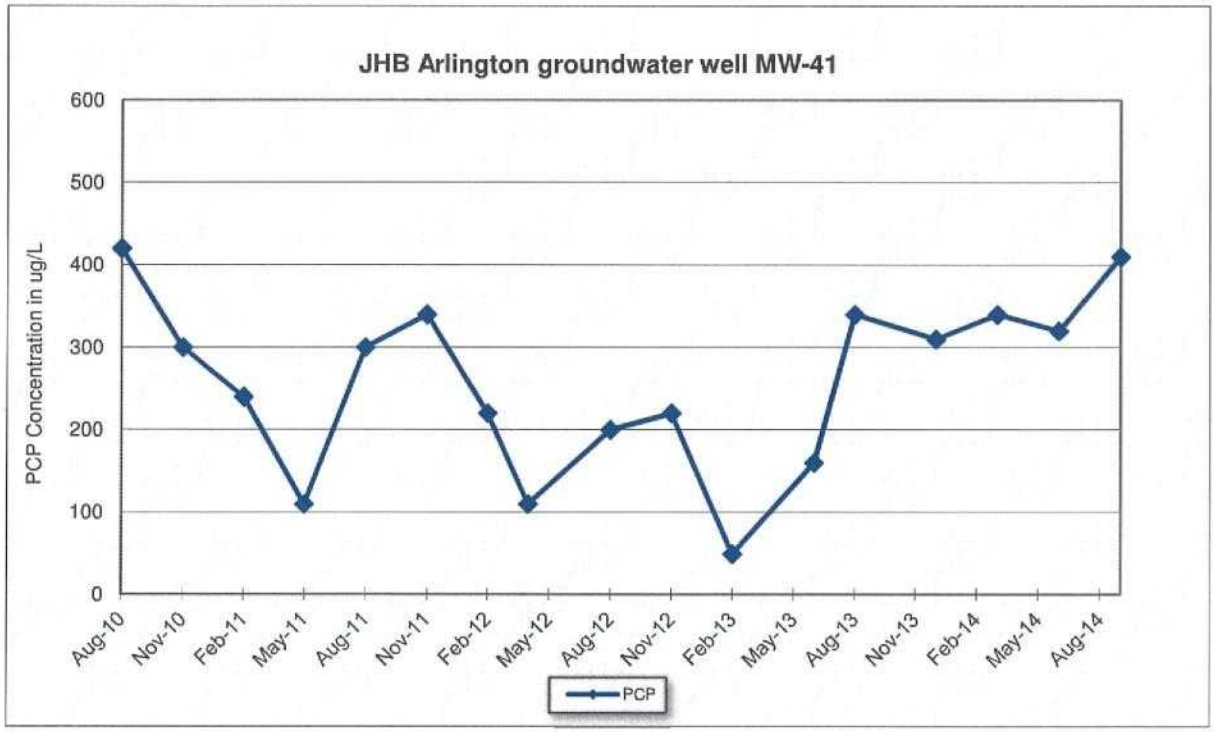
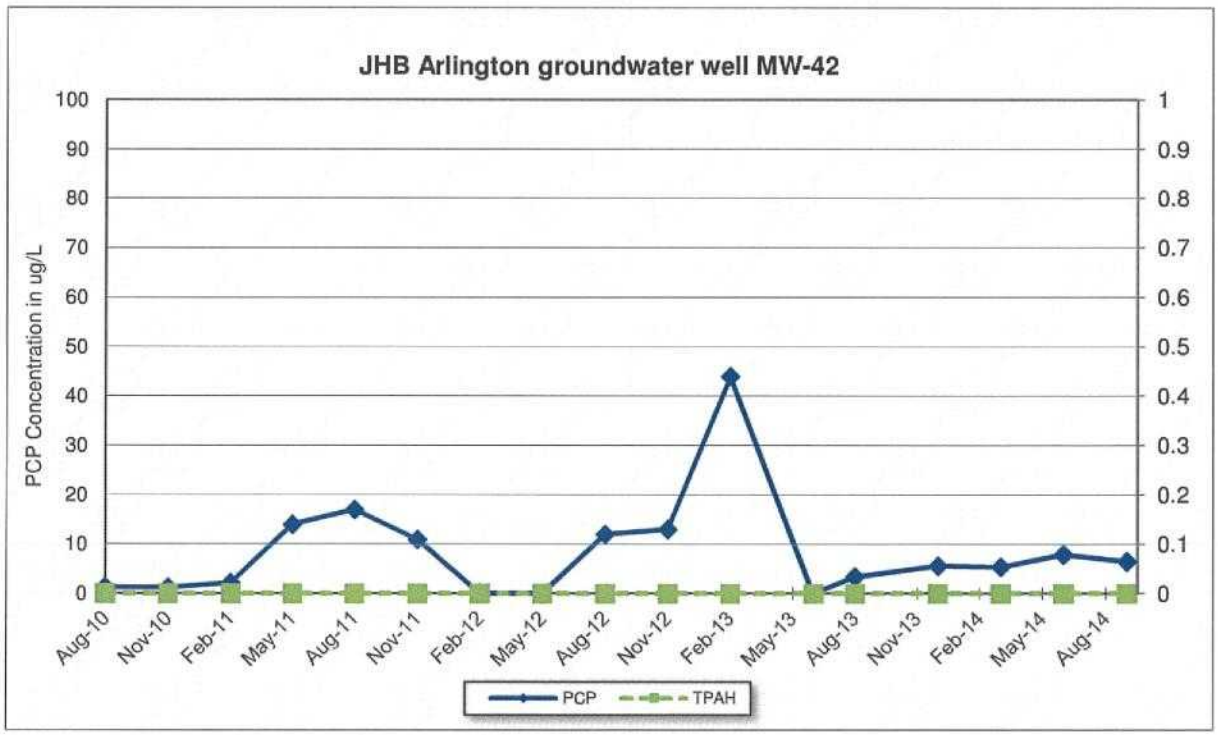
Jan-13
Apr-13
Jul-13
Oct-13
Jan-14
Apr-14
Jul-14
PCP
TPAH

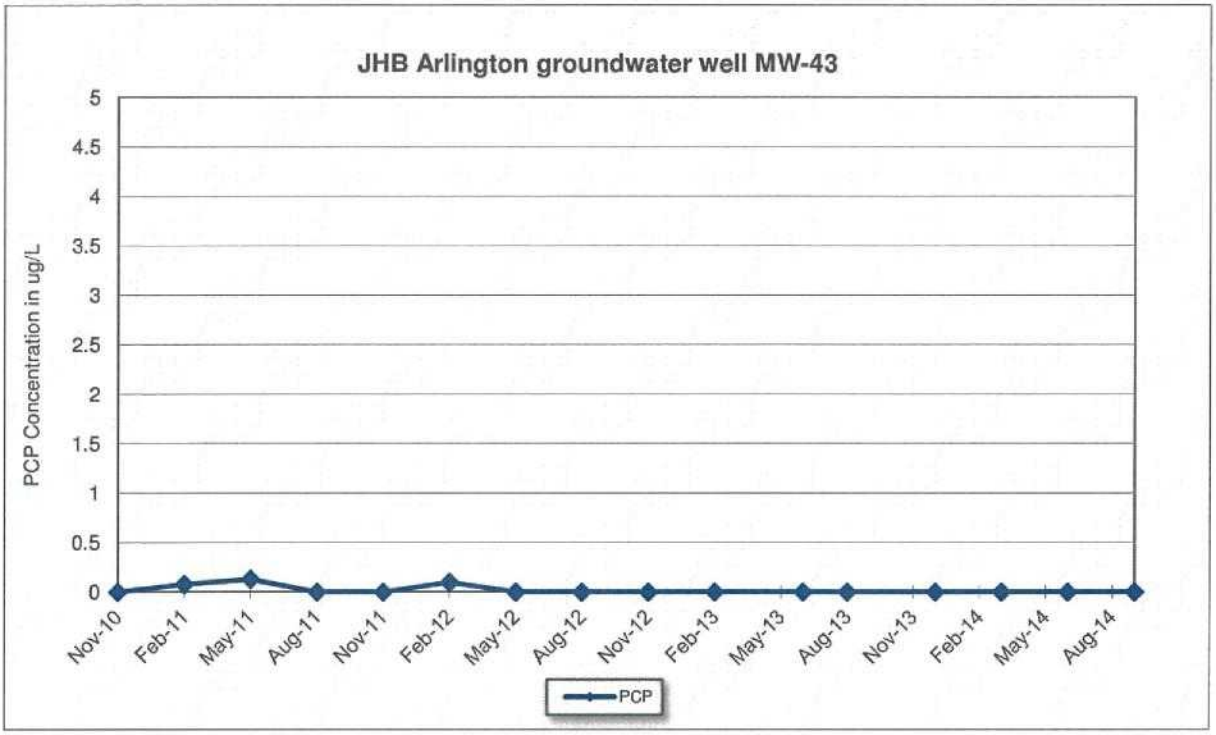

JHB Arlington groundwater well MW-38
PCP Concentration in ug/L
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Aug-10
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP

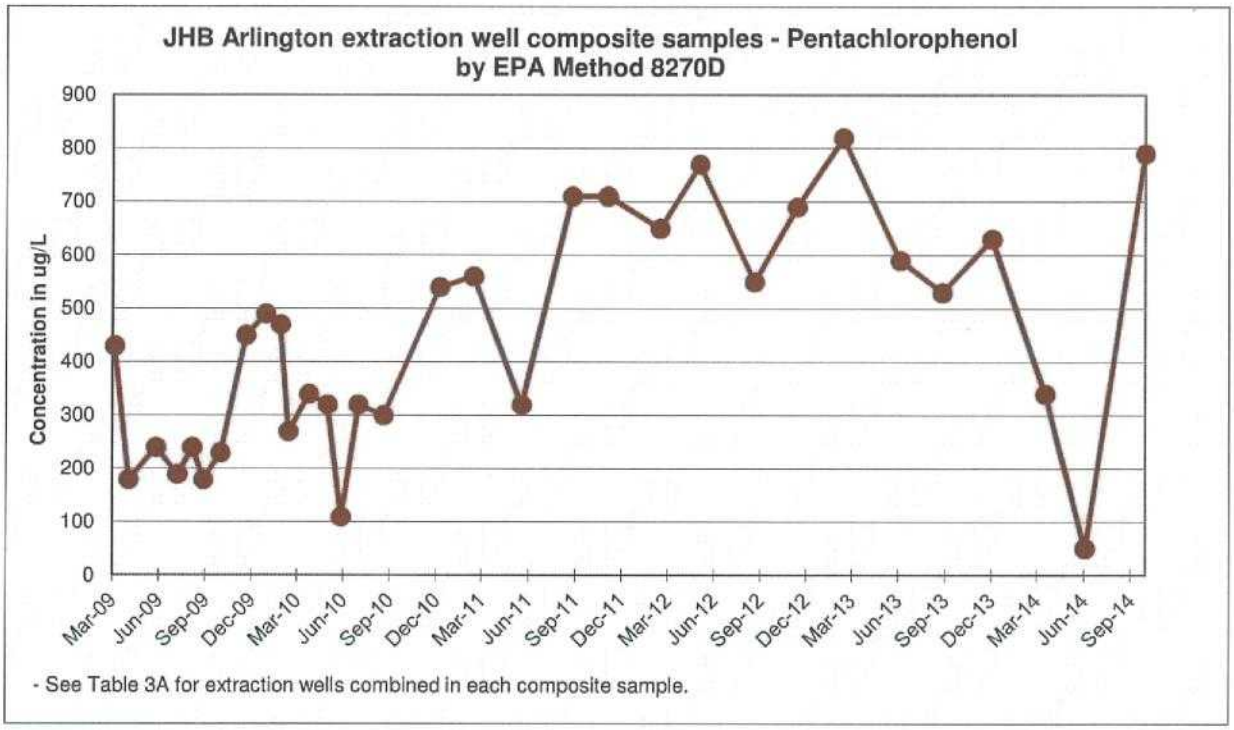

JHB Arlington groundwater well MW-39
PCP Concentration in ug/L
600
500
400
300
200
100
0
Aug-10
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP

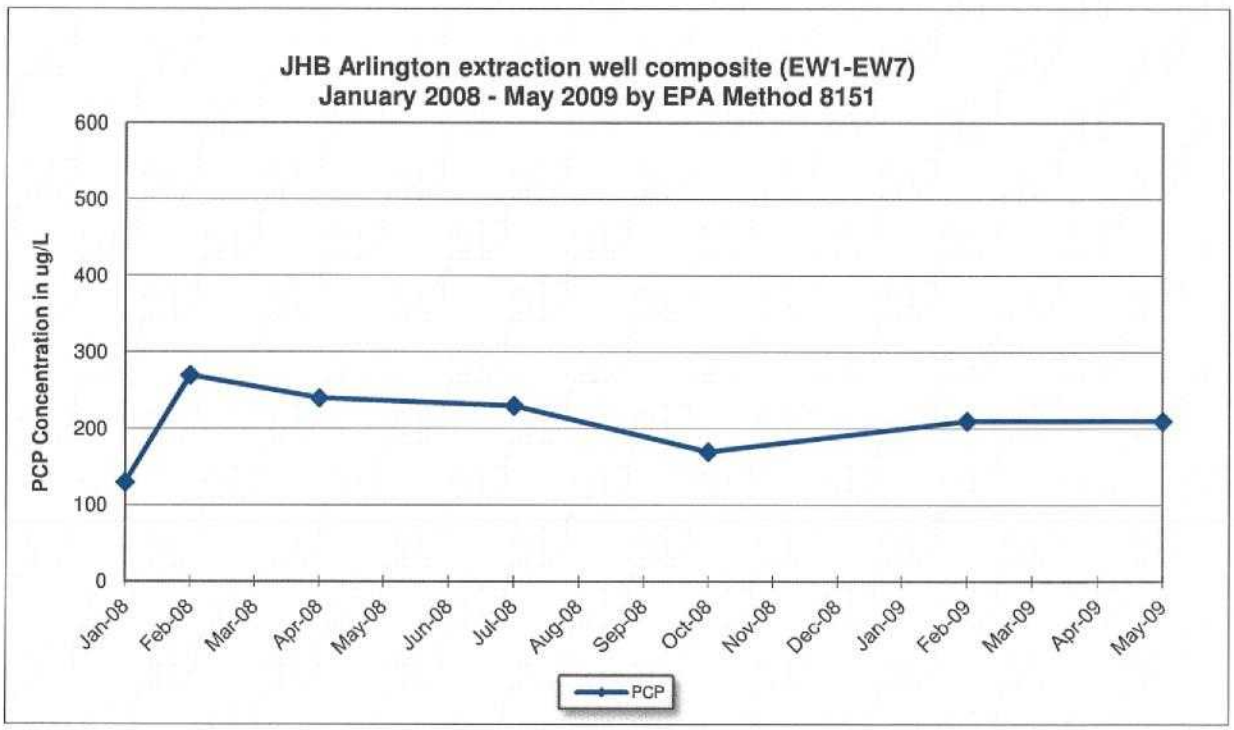

JHB Arlington groundwater well MW-40
PCP Concentration in ug/L
600
500
400
300
200
100
0
Aug-10
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP

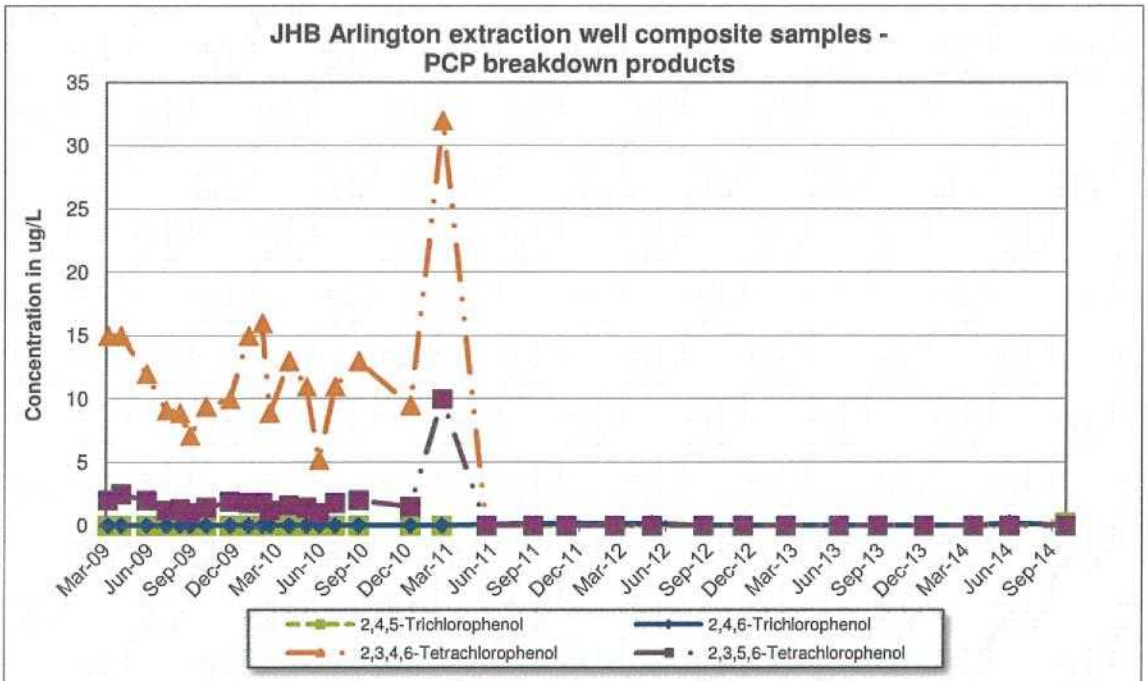

JHB Arlington groundwater well MW-41
PCP Concentration in ug/L
600
500
400
300
200
100
0
Aug-10
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP


JHB Arlington groundwater well MW-42
PCP Concentration in ug/L
100
90
80
70
60
50
40
30
20
10
0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Aug-10
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP
TPAH


JHB Arlington groundwater well MW-43
PCP Concentration in ug/L
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Nov-10
Feb-11
May-11
Aug-11
Nov-11
Feb-12
May-12
Aug-12
Nov-12
Feb-13
May-13
Aug-13
Nov-13
Feb-14
May-14
Aug-14
PCP


JHB Arlington extraction well composite samples - Pentachlorophenol
by EPA Method 8270D
Concentration in ug/L
900
800
700
600
500
400
300
200
100
0
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
- See Table 3A for extraction wells combined in each composite sample.


JHB Arlington extraction well composite (EW1-EW7)
January 2008 - May 2009 by EPA Method 8151
PCP Concentration in ug/L
600
500
400
300
200
100
0
Jan-08
Feb-08
Mar-08
Apr-08
May-08
Jun-08
Jul-08
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Jan-09
Feb-09
Mar-09
Apr-09
May-09
PCP



- See Table 3A for extraction wells combined in each composite sample.

APPENDIX B

Laboratory Reports and Chain-of-Custody Documentation (Summary Only)

(CD Contains Full Version of Lab Reports)

ALS Environmental
ALS Group USA, Corp.
1317 South 13th Avenue
Kelso, WA 98626
T: +1 360 577 7222
F: +1 360 636 1068
www.alsglobal.com

October 22, 2014

Analytical Report for Service Request No: K1410694

Scott Thielke
JH Baxter & Company
85 N. Baxter Road
P.O. Box 10797
Eugene, OR 97440

RE: J.H. Baxter-Arlington

Dear Scott:

Enclosed are the results of the samples submitted to our laboratory on October 01, 2014. For your reference, these analyses have been assigned our service request number K1410694.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3363. You may also contact me via Email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa A. Domenighini

Lisa Domenighini
Project Manager

LD/aj

RIGHT SOLUTIONS | RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

ALS Environmental

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	JH Baxter & Company	**Service Request No.:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Received:**	10/01/14
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two water samples were received for analysis at ALS Environmental on 10/01/14. As instructed, the discreet samples were composited at the laboratory to create one composite sample: EW-2-4 Composite. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Pentachlorophenol by EPA Method 8151

Calibration Verification Exceptions:
The upper control criterion was exceeded for 2,4,6-Trichlorophenol in several associated Continuing Calibration Verification (CCV); a few analytes in 1009F128. The field samples analyzed in the associated sequence did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Elevated Detection Limits:
This sample required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Total Tetrachlorophenols for this sample was outside the lower client-specific control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential low bias in this matrix. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

ALS Environmental

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS

1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

SR# K1410694

PAGE ____ OF ____

0H	7D	28D	180D	7D

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

Analysis Requested

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	SM 4500-H+ B / Ph	8270 D / PAH SIM	120.1 / Cond Spec	300.0 Chloride	300.0 / SO4	350.1 / Ammonia T	353.2 / NO2 NO3 T	SM 5220 C / COD T	SM 5310 / TOC T	SM 5550 B / Tan Lign	6010 C / Metals D	6020A / AS D	8151 A Modified/PCP only	REMARKS
EW-4	7/29	1705		water	1													X	PCP & breakdown
EW-2	⊥	1700			1													X	products

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co

San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

____ II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

X IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: MD	Signature: [signature]	Signature:	Signature:
Printed Name: Mike Duchi	Printed Name: A Pyrzac	Printed Name:	Printed Name:
Firm: JH Baxter	Firm: ALS	Firm:	Firm:
Date/Time: 9/30 0800	Date/Time: 10/1/14 1000	Date/Time:	Date/Time:

PC LD

Cooler Receipt and Preservation Form

Client / Project: JH Baxter Service Request K14 10694

Received: 10/1/14 Opened: 10/1/14 By: h Unloaded: 10/1/14 By: h

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 3 Front 1 Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.3	0.3	4.9	4.9	0	351		5478973752 10	
1.6	1.7	2.7	2.8	0.1	316		5478973752 31	
2.0	2.0	N/P	—	0	276		5478973750 03	
5.9	5.8	3.8	3.7	-0.1	339		5478973752 20	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

ALS Environmental

Chlorinated Phenols

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694

Cover Page - Organic Analysis Data Package
Chlorinated Phenols

Sample Name	Lab Code	Date Collected	Date Received
EW-2-4 Composite	K1410694-003	09/29/2014	10/01/2014

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Chlorinated Phenols

Sample Name:	EW-2-4 Composite	**Units:**	ug/L
Lab Code:	K1410694-003	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4,6-Trichlorophenol	ND	U	0.50	0.14	1	10/06/14	10/09/14	KWG1413661	
2,4,5-Trichlorophenol	**0.24**	J	1.0	0.19	1	10/06/14	10/09/14	KWG1413661	
Tetrachlorophenols, Total	**31**		1.0	0.25	1	10/06/14	10/09/14	KWG1413661	
Pentachlorophenol	**790**	D	5.0	1.6	10	10/06/14	10/10/14	KWG1413661	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	91	33-114	10/09/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Chlorinated Phenols

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413661-4	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4,6-Trichlorophenol	ND	U	0.50	0.14	1	10/06/14	10/09/14	KWG1413661	
2,4,5-Trichlorophenol	ND	U	1.0	0.19	1	10/06/14	10/09/14	KWG1413661	
Tetrachlorophenols, Total	ND	U	1.0	0.25	1	10/06/14	10/09/14	KWG1413661	
Pentachlorophenol	ND	U	0.50	0.16	1	10/06/14	10/09/14	KWG1413661	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	76	33-114	10/09/14	Acceptable

Comments:

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington
Sample Matrix: Water

Service Request: K1410694

Surrogate Recovery Summary
Chlorinated Phenols

Extraction Method: Method
Analysis Method: 8151M

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
EW-2-4 Composite	K1410694-003	91
Batch QC	K1410813-006	91
Method Blank	KWG1413661-4	76
Batch QCMS	KWG1413661-1	83
Batch QCDMS	KWG1413661-2	88
Lab Control Sample	KWG1413661-3	78

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromo-2,6-dichlorophenol 33-114

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/09/2014

Matrix Spike/Duplicate Matrix Spike Summary
Chlorinated Phenols

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1410813-006	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413661

		Batch QCMS KWG1413661-1 Matrix Spike				Batch QCDMS KWG1413661-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**		**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
2,4,6-Trichlorophenol	ND	5.97	10.0	60		6.37	10.0	64	26-100	6	30
2,4,5-Trichlorophenol	0.27	5.06	10.0	48		5.36	10.0	51	10-103	6	30
Tetrachlorophenols, Total	ND	13.0	20.0	65	*	14.2	20.0	71	70-130	9	30
Pentachlorophenol	ND	5.99	10.0	60		7.19	10.0	72	40-106	18	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/09/2014

Lab Control Spike Summary
Chlorinated Phenols

Extraction Method:	Method Mod	**Units:**	ug/L
Analysis Method:	8151M	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413661

	Lab Control Sample KWG1413661-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
2,4,6-Trichlorophenol	6.27	10.0	63	30-86
2,4,5-Trichlorophenol	5.52	10.0	55	19-94
Tetrachlorophenols, Total	14.1	20.0	70	70-130
Pentachlorophenol	7.25	10.0	73	44-106

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/09/2014
		Time Analyzed:	19:28

Method Blank Summary
Chlorinated Phenols

Sample Name:	Method Blank	**Instrument ID:**	GC36
Lab Code:	KWG1413661-4	**File ID:**	J:\GC36\DATA\100914P\1009000122.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413661

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
EW-2-4 Composite	K1410694-003	J:\GC36\DATA\100914P\1009000108.D	10/09/14	16:37
Batch QC	K1410813-006	J:\GC36\DATA\100914P\1009000113.D	10/09/14	17:38
Batch QCMS	KWG1413661-1	J:\GC36\DATA\100914P\1009000114.D	10/09/14	17:50
Batch QCDMS	KWG1413661-2	J:\GC36\DATA\100914P\1009000115.D	10/09/14	18:02
Lab Control Sample	KWG1413661-3	J:\GC36\DATA\100914P\1009000121.D	10/09/14	19:16
EW-2-4 Composite	K1410694-003	J:\GC36\DATA\101014P\1010000014.D	10/10/14	09:28

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/09/2014
		Time Analyzed:	19:16

Lab Control Sample Summary
Chlorinated Phenols

Sample Name:	Lab Control Sample	**Instrument ID:**	GC36
Lab Code:	KWG1413661-3	**File ID:**	J:\GC36\DATA\100914P\1009000121.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413661

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
EW-2-4 Composite	K1410694-003	J:\GC36\DATA\100914P\1009000108.D	10/09/14	16:37
Batch QC	K1410813-006	J:\GC36\DATA\100914P\1009000113.D	10/09/14	17:38
Batch QCMS	KWG1413661-1	J:\GC36\DATA\100914P\1009000114.D	10/09/14	17:50
Batch QCDMS	KWG1413661-2	J:\GC36\DATA\100914P\1009000115.D	10/09/14	18:02
Method Blank	KWG1413661-4	J:\GC36\DATA\100914P\1009000122.D	10/09/14	19:28
EW-2-4 Composite	K1410694-003	J:\GC36\DATA\101014P\1010000014.D	10/10/14	09:28

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014

Initial Calibration Summary
Chlorinated Phenols

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D	G	J:\GC36\DATA\092914P\0929000011.D
B	J:\GC36\DATA\092914P\0929000006.D	H	J:\GC36\DATA\092914P\0929000012.D
C	J:\GC36\DATA\092914P\0929000007.D	I	J:\GC36\DATA\092914P\0929000013.D
D	J:\GC36\DATA\092914P\0929000008.D	J	J:\GC36\DATA\092914P\0929000014.D
E	J:\GC36\DATA\092914P\0929000009.D		
F	J:\GC36\DATA\092914P\0929000010.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
4-Bromo-2,6-dichlorophenol	A	2.5	2.82E+5	B	5.0	2.58E+5	C	1.0	2.61E+5	D	10	2.58E+5	E	25	2.40E+5
	F	50	2.49E+5	G	100	2.69E+5	H	250	2.67E+5	I	500	2.80E+5	J	1000	2.72E+5
2,4,6-Trichlorophenol	A	2.3	3.07E+5	B	4.7	2.72E+5	C	0.93	2.92E+5	D	9.3	2.63E+5	E	23	2.34E+5
	F	47	2.32E+5	G	93	2.44E+5	H	230	2.32E+5	I	470	2.42E+5	J	930	2.34E+5
2,4,5-Trichlorophenol	A	2.3	1.62E+5	B	4.7	1.42E+5	C	0.93	1.42E+5	D	9.3	1.39E+5	E	23	1.24E+5
	F	47	1.17E+5	G	93	1.15E+5	H	230	1.05E+5	I	470	1.05E+5	J	930	100000
2,3,4,5-Tetrachlorophenol	A	2.4	3.62E+5	B	4.7	3.21E+5	C	0.94	3.17E+5	D	9.4	3.14E+5	E	24	2.70E+5
	F	47	2.59E+5	G	94	2.66E+5	H	240	2.52E+5	I	470	2.58E+5	J	940	2.46E+5
2,3,5,6-Tetrachlorophenol	A	2.4	4.32E+5	B	4.7	3.85E+5	C	0.94	3.90E+5	D	9.4	3.83E+5	E	24	3.43E+5
	F	47	3.40E+5	G	94	3.65E+5	H	240	3.55E+5	I	470	3.62E+5	J	940	3.49E+5
Pentachlorophenol	A	2.4	5.79E+5	B	4.8	4.95E+5	C	0.95	5.97E+5	D	9.5	4.99E+5	E	24	4.23E+5
	F	48	4.12E+5	G	95	4.31E+5	H	240	4.15E+5	I	480	4.32E+5	J	950	4.17E+5

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014

Initial Calibration Summary
Chlorinated Phenols

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
4-Bromo-2,6-dichlorophenol	SURR	AverageRF	% RSD	5.0		≤ 20
2,4,6-Trichlorophenol	MS	Linear(0,0)	R2	1.000		≥ 0.99
2,4,5-Trichlorophenol	MS	Quadratic(0,0)	COD	1.000		≥ 0.99
2,3,4,5-Tetrachlorophenol	MS	Linear(0,0)	R2	1.000		≥ 0.99
2,3,5,6-Tetrachlorophenol	MS	AverageRF	% RSD	7.5		≤ 20
Pentachlorophenol	MS	Quadratic(0,0)	COD	0.995		≥ 0.99

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014
Date Analyzed: 09/29/2014

Second Source Calibration Verification
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration ID: CAL13594
Units: ug/L

File ID: J:\GC36\DATA\092914P\0929000015.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
2,4,6-Trichlorophenol	470	460	255000	234000	NA	-1	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	470	460	125000	104000	NA	-2	± 20 %	Quadratic(0,0
2,3,4,5-Tetrachlorophenol	470	480	287000	254000	NA	2	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	470	470	370000	366000	-1	NA	± 20 %	AverageRF
Pentachlorophenol	480	480	470000	443000	NA	1	± 20 %	Quadratic(0,0

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014

Initial Calibration Summary
Chlorinated Phenols

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D\0929000005c.d	G	J:\GC36\DATA\092914P\0929000011.D\0929000011c.d
B	J:\GC36\DATA\092914P\0929000006.D\0929000006c.d	H	J:\GC36\DATA\092914P\0929000012.D\0929000012c.d
C	J:\GC36\DATA\092914P\0929000007.D\0929000007c.d	I	J:\GC36\DATA\092914P\0929000013.D\0929000013c.d
D	J:\GC36\DATA\092914P\0929000008.D\0929000008c.d	J	J:\GC36\DATA\092914P\0929000014.D\0929000014c.d
E	J:\GC36\DATA\092914P\0929000009.D\0929000009c.d		
F	J:\GC36\DATA\092914P\0929000010.D\0929000010c.d		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
4-Bromo-2,6-dichlorophenol	A	2.5	4.62E+5	B	5.0	4.36E+5	C	1.0	4.16E+5	D	10	4.87E+5	E	25	5.11E+5
	F	50	5.68E+5												
2,4,6-Trichlorophenol	A	2.3	6.15E+5	B	4.7	5.69E+5	C	0.93	6.32E+5	D	9.3	5.95E+5	E	23	5.61E+5
	F	47	5.78E+5	G	93	6.44E+5	H	230	6.21E+5	I	470	6.48E+5	J	930	6.35E+5
2,4,5-Trichlorophenol	A	2.3	3.87E+5	B	4.7	3.29E+5	C	0.93	3.85E+5	D	9.3	3.28E+5	E	23	2.73E+5
	F	47	2.64E+5	G	93	2.84E+5	H	230	2.66E+5	I	470	2.74E+5	J	930	2.63E+5
2,3,4,5-Tetrachlorophenol	A	2.4	6.97E+5	B	4.7	6.40E+5	C	0.94	6.91E+5	D	9.4	6.21E+5	E	24	5.70E+5
	F	47	5.73E+5	G	94	6.17E+5	H	240	6.04E+5	I	470	6.33E+5	J	940	6.21E+5
2,3,5,6-Tetrachlorophenol	A	2.4	8.30E+5	B	4.7	7.75E+5	C	0.94	8.10E+5	D	9.4	8.09E+5	E	24	7.92E+5
	F	47	8.26E+5	G	94	9.05E+5	H	240	8.95E+5	I	470	9.43E+5	J	940	9.29E+5
Pentachlorophenol	A	2.4	1.10E+6	B	4.8	9.84E+5	C	0.95	1.12E+6	D	9.5	1.01E+6	E	24	9.41E+5
	F	48	9.55E+5	G	95	1.03E+6	H	240	1.03E+6	I	480	1.08E+6	J	950	1.06E+6

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014

Initial Calibration Summary
Chlorinated Phenols

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
4-Bromo-2,6-dichlorophenol	SURR	Quadratic	COD	1.000		≥0.99
2,4,6-Trichlorophenol	MS	AverageRF	% RSD	5.2		≤20
2,4,5-Trichlorophenol	MS	Quadratic	COD	1.000		≥0.99
2,3,4,5-Tetrachlorophenol	MS	AverageRF	% RSD	6.7		≤20
2,3,5,6-Tetrachlorophenol	MS	Linear(0,0)	R2	1.000		≥0.99
Pentachlorophenol	MS	AverageRF	% RSD	5.8		≤20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Calibration Date: 09/29/2014
Date Analyzed: 09/29/2014

Second Source Calibration Verification
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration ID: CAL13594
Units: ug/L

File ID: J:\GC36\DATA\092914P\0929000015.D\0929000015c.d

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
2,4,6-Trichlorophenol	470	480	610000	626000	3	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	470	470	305000	271000	NA	0	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	470	470	626000	626000	0	NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	470	480	851000	947000	NA	2	± 20 %	Linear(0,0)
Pentachlorophenol	480	510	1030000	1110000	8	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413748
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000102.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	300	264000	312000	18	NA	± 20 %	AverageRF
2,4,6-Trichlorophenol	230	270	255000	270000	NA	15	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	230	270	125000	125000	NA	15	± 20 %	Quadratic(0,0)
2,3,4,5-Tetrachlorophenol	240	280	287000	295000	NA	18	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	240	270	370000	419000	13	NA	± 20 %	AverageRF
Pentachlorophenol	240	250	470000	483000	NA	4	± 20 %	Quadratic(0,0)

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413748
		Units:	ug/L
File ID:	J:\GC36\DATA\100914P\1009000102.D\1009000102C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	210	480000	776000	NA	-16	± 20 %	Quadratic
2,4,6-Trichlorophenol	230	280	610000	737000	21 *	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	230	280	305000	328000	NA	20	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	240	270	626000	715000	14	NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	240	270	851000	1050000	NA	13	± 20 %	Linear(0,0)
Pentachlorophenol	240	270	1030000	1190000	16	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413748
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000117.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	300	264000	316000	20	NA	± 20 %	AverageRF
2,4,6-Trichlorophenol	230	270	255000	276000	NA	17	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	230	270	125000	127000	NA	16	± 20 %	Quadratic(0,0)
2,3,4,5-Tetrachlorophenol	240	280	287000	299000	NA	20	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	240	270	370000	429000	16	NA	± 20 %	AverageRF
Pentachlorophenol	240	250	470000	489000	NA	6	± 20 %	Quadratic(0,0)

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413748
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000117.D\1009000117C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D		%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	210	480000	788000	NA		-15	± 20 %	Quadratic
2,4,6-Trichlorophenol	230	280	610000	741000	22	*	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	230	280	305000	329000	NA		20	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	240	270	626000	730000	16		NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	240	270	851000	1070000	NA		15	± 20 %	Linear(0,0)
Pentachlorophenol	240	280	1030000	1220000	18		NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413748
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000128.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	290	264000	309000	17	NA	± 20 %	AverageRF
2,4,6-Trichlorophenol	230	270	255000	268000	NA	14	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	230	240	125000	112000	NA	2	± 20 %	Quadratic(0,0)
2,3,4,5-Tetrachlorophenol	240	280	287000	296000	NA	19	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	240	260	370000	403000	9	NA	± 20 %	AverageRF
Pentachlorophenol	240	250	470000	494000	NA	7	± 20 %	Quadratic(0,0)

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413748
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000128.D\1009000128C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	220	480000	817000	NA	-13	± 20 %	Quadratic
2,4,6-Trichlorophenol	230	270	610000	712000	17	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	230	420	305000	487000	NA	79 *	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	240	300	626000	787000	26 *	NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	240	270	851000	1050000	NA	13	± 20 %	Linear(0,0)
Pentachlorophenol	240	530	1030000	2310000	124 *	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/10/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413771
Units: ug/L

File ID: J:\GC36\DATA\101014P\1010000012.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	300	264000	314000	19	NA	± 20 %	AverageRF
2,4,6-Trichlorophenol	230	270	255000	274000	NA	16	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	230	240	125000	115000	NA	4	± 20 %	Quadratic(0,0)
2,3,4,5-Tetrachlorophenol	240	280	287000	295000	NA	19	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	240	270	370000	427000	15	NA	± 20 %	AverageRF
Pentachlorophenol	240	250	470000	480000	NA	4	± 20 %	Quadratic(0,0)

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/10/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413771
Units: ug/L

File ID: J:\GC36\DATA\101014P\1010000012.D\1010000012C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	210	480000	792000	NA	-15	± 20 %	Quadratic
2,4,6-Trichlorophenol	230	290	610000	762000	25 *	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	230	280	305000	324000	NA	18	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	240	280	626000	735000	17	NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	240	280	851000	1090000	NA	18	± 20 %	Linear(0,0)
Pentachlorophenol	240	280	1030000	1200000	16	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/10/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413771
Units: ug/L

File ID: J:\GC36\DATA\101014P\1010000022.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	300	264000	316000	20	NA	± 20 %	AverageRF
2,4,6-Trichlorophenol	230	270	255000	276000	NA	17	± 20 %	Linear(0,0)
2,4,5-Trichlorophenol	230	260	125000	122000	NA	11	± 20 %	Quadratic(0,0)
2,3,4,5-Tetrachlorophenol	240	270	287000	288000	NA	16	± 20 %	Linear(0,0)
2,3,5,6-Tetrachlorophenol	240	250	370000	400000	8	NA	± 20 %	AverageRF
Pentachlorophenol	240	250	470000	487000	NA	5	± 20 %	Quadratic(0,0)

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694
Date Analyzed: 10/10/2014

Continuing Calibration Verification Summary
Chlorinated Phenols

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413771
Units: ug/L

File ID: J:\GC36\DATA\101014P\1010000022.D\1010000022C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
4-Bromo-2,6-dichlorophenol	250	220	480000	801000	NA	-14	± 20 %	Quadratic
2,4,6-Trichlorophenol	230	290	610000	754000	24 *	NA	± 20 %	AverageRF
2,4,5-Trichlorophenol	230	270	305000	320000	NA	17	± 20 %	Quadratic
2,3,4,5-Tetrachlorophenol	240	280	626000	741000	18	NA	± 20 %	AverageRF
2,3,5,6-Tetrachlorophenol	240	280	851000	1110000	NA	19	± 20 %	Linear(0,0)
Pentachlorophenol	240	280	1030000	1230000	20	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694

Analysis Run Log
Chlorinated Phenols

Analysis Method: 8151M

Analysis Lot: KWG1413748
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
09000102.D	Continuing Calibration Verification	KWG1413748-1	10/9/2014	15:11		10/9/2014	15:20
09000103.D	Instrument Blank	KWG1413748-2	10/9/2014	15:24		10/9/2014	15:32
09000105.D	ZZZZZZ	ZZZZZZ	10/9/2014	15:48		10/9/2014	15:57
09000108.D	EW-2-4 Composite	K1410694-003	10/9/2014	16:37		10/9/2014	16:46
09000109.D	ZZZZZZ	ZZZZZZ	10/9/2014	16:49		10/9/2014	16:58
09000110.D	ZZZZZZ	ZZZZZZ	10/9/2014	17:01		10/9/2014	17:10
09000111.D	ZZZZZZ	ZZZZZZ	10/9/2014	17:14		10/9/2014	17:22
09000112.D	ZZZZZZ	ZZZZZZ	10/9/2014	17:26		10/9/2014	17:35
09000113.D	Batch QC	K1410813-006	10/9/2014	17:38		10/9/2014	17:47
09000114.D	Batch QCMS	KWG1413661-1	10/9/2014	17:50		10/9/2014	17:59
09000115.D	Batch QCDMS	KWG1413661-2	10/9/2014	18:02		10/9/2014	18:11
09000116.D	ZZZZZZ	ZZZZZZ	10/9/2014	18:15		10/9/2014	18:23
09000117.D	Continuing Calibration Verification	KWG1413748-3	10/9/2014	18:27		10/9/2014	18:36
09000118.D	Instrument Blank	KWG1413748-4	10/9/2014	18:39		10/9/2014	18:48
09000119.D	ZZZZZZ	ZZZZZZ	10/9/2014	18:51		10/9/2014	19:00
09000120.D	ZZZZZZ	ZZZZZZ	10/9/2014	19:03		10/9/2014	19:12
09000121.D	Lab Control Sample	KWG1413661-3	10/9/2014	19:16		10/9/2014	19:24
09000122.D	Method Blank	KWG1413661-4	10/9/2014	19:28		10/9/2014	19:37
09000123.D	ZZZZZZ	ZZZZZZ	10/9/2014	19:40		10/9/2014	19:49
09000125.D	ZZZZZZ	ZZZZZZ	10/9/2014	20:05		10/9/2014	20:13
09000126.D	ZZZZZZ	ZZZZZZ	10/9/2014	20:17		10/9/2014	20:26
09000127.D	ZZZZZZ	ZZZZZZ	10/9/2014	20:29		10/9/2014	20:38
09000128.D	Continuing Calibration Verification	KWG1413748-5	10/9/2014	20:41		10/9/2014	20:50
09000129.D	Instrument Blank	KWG1413748-6	10/9/2014	20:53		10/9/2014	21:02
09000132.D	ZZZZZZ	ZZZZZZ	10/9/2014	21:30		10/9/2014	21:39
09000133.D	ZZZZZZ	ZZZZZZ	10/9/2014	21:42		10/9/2014	21:51
09000134.D	ZZZZZZ	ZZZZZZ	10/9/2014	21:55		10/9/2014	22:03
09000137.D	ZZZZZZ	ZZZZZZ	10/9/2014	22:31		10/9/2014	22:40
09000138.D	ZZZZZZ	ZZZZZZ	10/9/2014	22:44		10/9/2014	22:52
09000139.D	ZZZZZZ	ZZZZZZ	10/9/2014	22:56		10/9/2014	23:05
09000140.D	Continuing Calibration Verification	KWG1413748-7	10/9/2014	23:08		10/9/2014	23:17
09000141.D	Instrument Blank	KWG1413748-8	10/9/2014	23:20		10/9/2014	23:29

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington

Service Request: K1410694

Analysis Run Log
Chlorinated Phenols

Analysis Method: 8151M

Analysis Lot: KWG1413771
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
10000012.D	Continuing Calibration Verification	KWG1413771-1	10/10/2014	09:04		10/10/2014	09:12
10000013.D	Instrument Blank	KWG1413771-2	10/10/2014	09:16		10/10/2014	09:25
10000014.D	EW-2-4 Composite	K1410694-003	10/10/2014	09:28		10/10/2014	09:37
10000015.D	ZZZZZZ	ZZZZZZ	10/10/2014	09:40		10/10/2014	09:49
10000016.D	ZZZZZZ	ZZZZZZ	10/10/2014	09:52		10/10/2014	10:01
10000017.D	ZZZZZZ	ZZZZZZ	10/10/2014	10:05		10/10/2014	10:13
10000018.D	ZZZZZZ	ZZZZZZ	10/10/2014	10:17		10/10/2014	10:26
10000019.D	ZZZZZZ	ZZZZZZ	10/10/2014	10:29		10/10/2014	10:38
10000022.D	Continuing Calibration Verification	KWG1413771-3	10/10/2014	11:05		10/10/2014	11:14
10000023.D	Instrument Blank	KWG1413771-4	10/10/2014	11:18		10/10/2014	11:26

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: J.H. Baxter-Arlington
Sample Matrix: Water

Service Request: K1410694
Date Extracted: 10/06/2014

Extraction Prep Log
Chlorinated Phenols

Extraction Method: Method
Analysis Method: 8151M

Extraction Lot: KWG1413661
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
EW-2-4 Composite	K1410694-003	09/29/14	10/01/14	5mL	1mL	NA	
EW-2-4 CompositeDL	K1410694-003	09/29/14	10/01/14	5mL	1mL	NA	
Method Blank	KWG1413661-4	NA	NA	5mL	1mL	NA	
Batch QC	K1410813-006	NA	NA	5mL	1mL	NA	
Batch QCMS	KWG1413661-1	NA	NA	5mL	1mL	NA	
Batch QCDMS	KWG1413661-2	NA	NA	5mL	1mL	NA	
Lab Control Sample	KWG1413661-3	NA	NA	5mL	1mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410694
Project:	J.H. Baxter-Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/06/2014

Chlorinated Phenols

Sample Name:	EW-2-4 Composite	**Units:**	ug/L
Lab Code:	K1410694-003	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-Trichlorophenol	1.0	0.19	0.24	0.34	34.5	J	1	10/09/14
Tetrachlorophenols, Total	1.0	0.25	31	31	0.0		1	10/09/14
Pentachlorophenol	5.0	1.6	790	870	9.6	D	10	10/10/14

ALS Environmental
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www.alsglobal.com

November 6, 2014

Analytical Report for Service Request No: K1410695B

Scott Thielke
JH Baxter & Company
85 N. Baxter Road
P.O. Box 10797
Eugene, OR 97440

RE: Arlington Landfill Wells/Landfill Program

Dear Scott:

Enclosed is the revised report for the samples submitted to our laboratory on October 01, 2014. For your reference, these analyses have been assigned our service request number K1410695.

On November 6, 2014 Caprielle Barlow with AMEC requested that the 8270 SIMPAH and 8151 PCP results be reported on a separate service request. A level IV data package was also requested.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3363. You may also contact me via Email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa A Domenighini

Lisa Domenighini
Project Manager

LD/aj

RIGHT SOLUTIONS | RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	JH Baxter & Company	**Service Request No.:**	K1410695B
Project:	Arlington Landfill Wells/ Landfill Program	**Date Received:**	10/01/14
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Five water samples were received for analysis at ALS Environmental on 10/01/14. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Pentachlorophenol by EPA Method 8151

Calibration Verification Exceptions:
The analysis of Pentachlorophenol requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for 4-Bromo-2, 6-dichlorophenol in the associated CCVs. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Pentachlorophenol for sample Batch QC were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Polynuclear Aromatic Hydrocarbons by EPA Method 8270

Sample Notes and Discussion:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). An MS and Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) were analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by Lisa A. Jomenighini

ALS Environmental

Chain of Custody

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SR# K1410695 B

PAGE ____ OF ____

0H	7D	28D	180D	7D

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

Analysis Requested

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	SM 4500-H+ B / Ph	8270 D / PAH SIM	120.1 / Cond Spec	300.0 Chloride	300.0 / SO4	350.1 / Ammonia T	353.2 / NO2 NO3 T	SM 5220 C / COD T	SM 5310 / TOC T	SM 5550 B / Tan Lign	6010 C / Metals D	6020A / AS D	8151 A Modified/PCP only	REMARKS
BXS-1	9/29	1430		water	3	X	X	X	X	X	X	X	X	X	X	X	X		
BXS-2		1526		water	3	X	X	X	X	X	X	X	X	X	X	X	X		
BXS-3		1603		water	3	X	X	X	X	X	X	X	X	X	X	X	X		
BXS-4		1711		water	3	X	X	X	X	X	X	X	X	X	X	X	X		
BXS-5		1430		water	3	X	X	X	X	X	X	X	X	X	X	X	X		

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co

San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

X II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

____ IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

Dissolved Metals to be analyzed are: As ,Ba, Cu, Fe, Mn, Zn

Metals are Field Filtered

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Printed Name: Mike Dochi	Printed Name: [signature]	Printed Name:	Printed Name:
Firm: JH Baxter	Firm: ALS	Firm:	Firm:
Date/Time: 9/30 0800	Date/Time: 10/1/14 1000	Date/Time:	Date/Time:

ALS

1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

SR# K1410695B

PAGE ____ OF ____

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	SM 4500-H+ B / Pb (0H)	8270 D / PAH SIM (7D)	120.1 / Cond Spec (28D)	300.0 Chloride (28D)	300.0 / SO4 (28D)	350.1 / Ammonia T (28D)	353.2 / NO2 NO3 T (28D)	SM 5220 C / COD T (28D)	SM 5310 / TOC T (28D)	SM 5550 B / Tan Lign (28D)	6010 C / Metals D (1800)	6020A / AS D (1800)	8151 A Modified/PCP only (7D)	REMARKS
BXS-1	9/29	1430		water	2		X											X	
BXS-2		1526		water	2		X											X	
BXS-5		1430		water	2		X											X	
																			Landfill & Site
																			Investigation program

Analysis Requested

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co
San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

X II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

____ IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [illegible]	Signature: [illegible]	Signature: ____	Signature: ____
Printed Name: Mike Ducki	Printed Name: [illegible]	Printed Name: ____	Printed Name: ____
Firm: JH Baxter	Firm: ALS	Firm: ____	Firm: ____
Date/Time: 9/30 0800	Date/Time: 10/1/14 1000	Date/Time: ____	Date/Time: ____

PC LD

Cooler Receipt and Preservation Form

Client / Project: JH Baxter Service Request K14 10695 B

Received: 10/1/14 Opened: 10/1/14 By: h Unloaded: 10/1/14 By: h

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 3 Front 1 Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.3	0.3	4.9	4.9	0	351		5478973752 10	
1.6	1.7	2.7	2.8	0.1	316		5478973752 31	
2.0	2.0	w/p	—	0	276		5478973750 03	
5.9	5.8	3.8	3.7	-0.1	339		5478973752 20	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Received PCP vial for BXS 3 not listed on COC.

SHORT HOLD TIME

Page ____ *of* ____

Pentachlorophenol

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Cover Page - Organic Analysis Data Package
Pentachlorophenol

Sample Name	Lab Code	Date Collected	Date Received
BXS-1	K1410695-001	09/29/2014	10/01/2014
BXS-2	K1410695-002	09/29/2014	10/01/2014
BXS-5	K1410695-005	09/29/2014	10/01/2014

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	BXS-1	**Units:**	ug/L
Lab Code:	K1410695-001	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	49		0.50	0.16	1	10/02/14	10/09/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	81	33-114	10/09/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	BXS-2	**Units:**	ug/L
Lab Code:	K1410695-002	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	84	33-114	10/08/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	BXS-5	**Units:**	ug/L
Lab Code:	K1410695-005	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**43**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	67	33-114	10/08/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Pentachlorophenol

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413617-4	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	66	33-114	10/08/14	Acceptable

Comments:

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program
Sample Matrix: Water

Service Request: K1410695

Surrogate Recovery Summary
Pentachlorophenol

Extraction Method: Method Mod
Analysis Method: 8151M

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
BXS-1	K1410695-001	81
BXS-2	K1410695-002	84
BXS-5	K1410695-005	67
Batch QC	K1410700-022	97
Method Blank	KWG1413617-4	66
Batch QCMS	KWG1413617-1	51
Batch QCDMS	KWG1413617-2	61
Lab Control Sample	KWG1413617-3	75

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromo-2,6-dichlorophenol 33-114

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Matrix Spike/Duplicate Matrix Spike Summary
Pentachlorophenol

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1410700-022	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

		Batch QCMS KWG1413617-1 Matrix Spike			Batch QCDMS KWG1413617-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Pentachlorophenol	65	40.7	10.0	-247 #	50.4	10.0	-149 #	40-106	21	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Lab Control Spike Summary
Pentachlorophenol

Extraction Method:	Method Mod	**Units:**	ug/L
Analysis Method:	8151M	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413617

	Lab Control Sample KWG1413617-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Pentachlorophenol	6.36	10.0	64	44-106

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014
		Time Analyzed:	18:23

Method Blank Summary
Pentachlorophenol

Sample Name:	Method Blank	**Instrument ID:**	GC36
Lab Code:	KWG1413617-4	**File ID:**	J:\GC36\DATA\100814P\1008000057.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
BXS-5	K1410695-005	J:\GC36\DATA\100814P\1008000020.D	10/08/14	10:51
Batch QC	K1410700-022	J:\GC36\DATA\100814P\1008000026.D	10/08/14	12:04
Batch QCMS	KWG1413617-1	J:\GC36\DATA\100814P\1008000027.D	10/08/14	12:17
Batch QCDMS	KWG1413617-2	J:\GC36\DATA\100814P\1008000028.D	10/08/14	12:29
BXS-2	K1410695-002	J:\GC36\DATA\100814P\1008000045.D	10/08/14	15:57
Lab Control Sample	KWG1413617-3	J:\GC36\DATA\100814P\1008000056.D	10/08/14	18:11
BXS-1	K1410695-001	J:\GC36\DATA\100914P\1009000013.D	10/09/14	10:07

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014
		Time Analyzed:	18:11

Lab Control Sample Summary
Pentachlorophenol

Sample Name:	Lab Control Sample	**Instrument ID:**	GC36
Lab Code:	KWG1413617-3	**File ID:**	J:\GC36\DATA\100814P\1008000056.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
BXS-5	K1410695-005	J:\GC36\DATA\100814P\1008000020.D	10/08/14	10:51
Batch QC	K1410700-022	J:\GC36\DATA\100814P\1008000026.D	10/08/14	12:04
Batch QCMS	KWG1413617-1	J:\GC36\DATA\100814P\1008000027.D	10/08/14	12:17
Batch QCDMS	KWG1413617-2	J:\GC36\DATA\100814P\1008000028.D	10/08/14	12:29
BXS-2	K1410695-002	J:\GC36\DATA\100814P\1008000045.D	10/08/14	15:57
Method Blank	KWG1413617-4	J:\GC36\DATA\100814P\1008000057.D	10/08/14	18:23
BXS-1	K1410695-001	J:\GC36\DATA\100914P\1009000013.D	10/09/14	10:07

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D	G	J:\GC36\DATA\092914P\0929000011.D
B	J:\GC36\DATA\092914P\0929000006.D	H	J:\GC36\DATA\092914P\0929000012.D
C	J:\GC36\DATA\092914P\0929000007.D	I	J:\GC36\DATA\092914P\0929000013.D
D	J:\GC36\DATA\092914P\0929000008.D	J	J:\GC36\DATA\092914P\0929000014.D
E	J:\GC36\DATA\092914P\0929000009.D		
F	J:\GC36\DATA\092914P\0929000010.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Pentachlorophenol	A	2.4	5.79E+5	B	4.8	4.95E+5	C	0.95	5.97E+5	D	9.5	4.99E+5	E	24	4.23E+5
	F	48	4.12E+5	G	95	4.31E+5	H	240	4.15E+5	I	480	4.32E+5	J	950	4.17E+5
4-Bromo-2,6-dichlorophenol	A	2.5	2.82E+5	B	5.0	2.58E+5	C	1.0	2.61E+5	D	10	2.58E+5	E	25	2.40E+5
	F	50	2.49E+5	G	100	2.69E+5	H	250	2.67E+5	I	500	2.80E+5	J	1000	2.72E+5

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

		Calibration Evaluation					
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**	
Pentachlorophenol	MS	Quadratic(0,0)	COD	0.995		≥ 0.99	
4-Bromo-2,6-dichlorophenol	SURR	AverageRF	% RSD	5.0		≤ 20	

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Calibration Date:**	09/29/2014
		Date Analyzed:	09/29/2014

Second Source Calibration Verification
Pentachlorophenol

Calibration Type:	External Standard	**Calibration ID:**	CAL13594
Analysis Method:	8151M	**Units:**	ug/L
File ID:	J:\GC36\DATA\092914P\0929000015.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	480	480	470000	443000	NA	1	± 20 %	Quadratic(0,0

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D\0929000005c.d	G	J:\GC36\DATA\092914P\0929000011.D\0929000011c.d
B	J:\GC36\DATA\092914P\0929000006.D\0929000006c.d	H	J:\GC36\DATA\092914P\0929000012.D\0929000012c.d
C	J:\GC36\DATA\092914P\0929000007.D\0929000007c.d	I	J:\GC36\DATA\092914P\0929000013.D\0929000013c.d
D	J:\GC36\DATA\092914P\0929000008.D\0929000008c.d	J	J:\GC36\DATA\092914P\0929000014.D\0929000014c.d
E	J:\GC36\DATA\092914P\0929000009.D\0929000009c.d		
F	J:\GC36\DATA\092914P\0929000010.D\0929000010c.d		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Pentachlorophenol	A	2.4	1.10E+6	B	4.8	9.84E+5	C	0.95	1.12E+6	D	9.5	1.01E+6	E	24	9.41E+5
	F	48	9.55E+5	G	95	1.03E+6	H	240	1.03E+6	I	480	1.08E+6	J	950	1.06E+6
4-Bromo-2,6-dichlorophenol	A	2.5	4.62E+5	B	5.0	4.36E+5	C	1.0	4.16E+5	D	10	4.87E+5	E	25	5.11E+5
	F	50	5.68E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

		Calibration Evaluation					
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	
Pentachlorophenol	MS	AverageRF	% RSD	5.8		≤ 20	
4-Bromo-2,6-dichlorophenol	SURR	Quadratic	COD	1.000		≥ 0.99	

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Calibration Date:**	09/29/2014
		Date Analyzed:	09/29/2014

Second Source Calibration Verification
Pentachlorophenol

Calibration Type:	External Standard	**Calibration ID:**	CAL13594
Analysis Method:	8151M	**Units:**	ug/L
File ID:	J:\GC36\DATA\092914P\0929000015.D\0929000015c.d	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	480	510	1030000	1110000	8	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000018.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	200	470000	392000	NA	-16	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	240	264000	253000	-4	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000018.D\1008000018C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	1030000	952000	-8	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	180	480000	619000	NA	-28 *	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000030.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	210	470000	421000	NA	-10	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	260	264000	275000	4	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000030.D\1008000030C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1030000	0	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	190	480000	679000	NA	-23 *	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000046.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	210	470000	417000	NA	-11	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	260	264000	277000	5	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000046.D\1008000046C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1030000	0	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	190	480000	684000	NA	-23 *	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000060.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	230	470000	454000	NA	-2	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	290	264000	303000	15	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413649
Units: ug/L

File ID: J:\GC36\DATA\100814P\1008000060.D\1008000060C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	260	1030000	1120000	9	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	210	480000	759000	NA	-17	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413697
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000003.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	470000	423000	NA	-9	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	270	264000	283000	7	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413697
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000003.D\1009000003C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1040000	1	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	200	480000	712000	NA	-20	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413697
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000015.D

Column ID: RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	470000	436000	NA	-6	± 20	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	280	264000	293000	11	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration Date: 09/29/2014
Calibration ID: CAL13594
Analysis Lot: KWG1413697
Units: ug/L

File ID: J:\GC36\DATA\100914P\1009000015.D\1009000015C.

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	250	1030000	1090000	6	NA	± 20	AverageRF
4-Bromo-2,6-dichlorophenol	250	210	480000	746000	NA	-18	± 20	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000003.D	Continuing Calibration Verification	KWG1413649-1	10/8/2014	07:22		10/8/2014	07:31
08000004.D	Instrument Blank	KWG1413649-2	10/8/2014	07:35		10/8/2014	07:43
08000018.D	Continuing Calibration Verification	KWG1413649-3	10/8/2014	10:27		10/8/2014	10:35
08000019.D	Instrument Blank	KWG1413649-4	10/8/2014	10:39		10/8/2014	10:48
08000020.D	BXS-5	K1410695-005	10/8/2014	10:51		10/8/2014	11:00
08000021.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:03		10/8/2014	11:12
08000022.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:15		10/8/2014	11:24
08000023.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:28		10/8/2014	11:36
08000024.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:40		10/8/2014	11:49
08000025.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:52		10/8/2014	12:01
08000026.D	Batch QC	K1410700-022	10/8/2014	12:04		10/8/2014	12:13
08000027.D	Batch QCMS	KWG1413617-1	10/8/2014	12:17		10/8/2014	12:25
08000028.D	Batch QCDMS	KWG1413617-2	10/8/2014	12:29		10/8/2014	12:38
08000029.D	ZZZZZZ	ZZZZZZ	10/8/2014	12:41		10/8/2014	12:50
08000030.D	Continuing Calibration Verification	KWG1413649-5	10/8/2014	12:53		10/8/2014	13:02
08000031.D	Instrument Blank	KWG1413649-6	10/8/2014	13:05		10/8/2014	13:14
08000032.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:18		10/8/2014	13:26
08000034.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:42		10/8/2014	13:51
08000035.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:54		10/8/2014	14:03
08000036.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:07		10/8/2014	14:15
08000037.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:19		10/8/2014	14:28
08000038.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:31		10/8/2014	14:40
08000039.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:43		10/8/2014	14:52
08000040.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:56		10/8/2014	15:04
08000041.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:08		10/8/2014	15:17
08000042.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:20		10/8/2014	15:29
08000043.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:32		10/8/2014	15:41
08000044.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:45		10/8/2014	15:53
08000045.D	BXS-2	K1410695-002	10/8/2014	15:57		10/8/2014	16:06
08000046.D	Continuing Calibration Verification	KWG1413649-7	10/8/2014	16:09		10/8/2014	16:18
08000047.D	Instrument Blank	KWG1413649-8	10/8/2014	16:21		10/8/2014	16:30
08000048.D	ZZZZZZ	ZZZZZZ	10/8/2014	16:33		10/8/2014	16:42
08000049.D	ZZZZZZ	ZZZZZZ	10/8/2014	16:46		10/8/2014	16:54
08000050.D	ZZZZZZ	ZZZZZZ	10/8/2014	16:58		10/8/2014	17:07

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000051.D	ZZZZZZ	ZZZZZZ	10/8/2014	17:10		10/8/2014	17:19
08000052.D	ZZZZZZ	ZZZZZZ	10/8/2014	17:22		10/8/2014	17:31
08000053.D	ZZZZZZ	ZZZZZZ	10/8/2014	17:35		10/8/2014	17:43
08000054.D	ZZZZZZ	ZZZZZZ	10/8/2014	17:47		10/8/2014	17:56
08000055.D	ZZZZZZ	ZZZZZZ	10/8/2014	17:59		10/8/2014	18:08
08000056.D	Lab Control Sample	KWG1413617-3	10/8/2014	18:11		10/8/2014	18:20
08000057.D	Method Blank	KWG1413617-4	10/8/2014	18:23		10/8/2014	18:32
08000058.D	ZZZZZZ	ZZZZZZ	10/8/2014	18:36		10/8/2014	18:44
08000059.D	ZZZZZZ	ZZZZZZ	10/8/2014	18:48		10/8/2014	18:57
08000060.D	Continuing Calibration Verification	KWG1413649-9	10/8/2014	19:00		10/8/2014	19:09
08000061.D	Instrument Blank	KWG1413649-10	10/8/2014	19:12		10/8/2014	19:21
08000062.D	ZZZZZZ	ZZZZZZ	10/8/2014	19:24		10/8/2014	19:33
08000063.D	ZZZZZZ	ZZZZZZ	10/8/2014	19:37		10/8/2014	19:45
08000064.D	ZZZZZZ	ZZZZZZ	10/8/2014	19:49		10/8/2014	19:58
08000065.D	ZZZZZZ	ZZZZZZ	10/8/2014	20:01		10/8/2014	20:10
08000066.D	ZZZZZZ	ZZZZZZ	10/8/2014	20:13		10/8/2014	20:22
08000067.D	ZZZZZZ	ZZZZZZ	10/8/2014	20:26		10/8/2014	20:34
08000068.D	ZZZZZZ	ZZZZZZ	10/8/2014	20:38		10/8/2014	20:47
08000069.D	ZZZZZZ	ZZZZZZ	10/8/2014	20:50		10/8/2014	20:59
08000070.D	ZZZZZZ	ZZZZZZ	10/8/2014	21:02		10/8/2014	21:11
08000071.D	ZZZZZZ	ZZZZZZ	10/8/2014	21:15		10/8/2014	21:23
08000072.D	Continuing Calibration Verification	KWG1413649-11	10/8/2014	21:27		10/8/2014	21:36
08000073.D	Instrument Blank	KWG1413649-12	10/8/2014	21:39		10/8/2014	21:48
08000074.D	ZZZZZZ	ZZZZZZ	10/8/2014	21:51		10/8/2014	22:00
08000075.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:03		10/8/2014	22:12
08000076.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:16		10/8/2014	22:24
08000077.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:28		10/8/2014	22:37
08000078.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:40		10/8/2014	22:49
08000079.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:52		10/8/2014	23:01
08000080.D	ZZZZZZ	ZZZZZZ	10/8/2014	23:04		10/8/2014	23:13
08000081.D	ZZZZZZ	ZZZZZZ	10/8/2014	23:17		10/8/2014	23:26
08000082.D	ZZZZZZ	ZZZZZZ	10/8/2014	23:29		10/8/2014	23:38
08000083.D	ZZZZZZ	ZZZZZZ	10/8/2014	23:41		10/8/2014	23:50
08000084.D	ZZZZZZ	ZZZZZZ	10/8/2014	23:53		10/9/2014	00:02

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000085.D	ZZZZZZ	ZZZZZZ	10/9/2014	00:06		10/9/2014	00:14
08000086.D	Continuing Calibration Verification	KWG1413649-13	10/9/2014	00:18		10/9/2014	00:27
08000087.D	Instrument Blank	KWG1413649-14	10/9/2014	00:30		10/9/2014	00:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413697
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
09000003.D	Continuing Calibration Verification	KWG1413697-1	10/9/2014	08:05		10/9/2014	08:14
09000004.D	Instrument Blank	KWG1413697-2	10/9/2014	08:17		10/9/2014	08:26
09000005.D	ZZZZZZ	ZZZZZZ	10/9/2014	08:30		10/9/2014	08:38
09000006.D	ZZZZZZ	ZZZZZZ	10/9/2014	08:42		10/9/2014	08:51
09000007.D	ZZZZZZ	ZZZZZZ	10/9/2014	08:54		10/9/2014	09:03
09000008.D	ZZZZZZ	ZZZZZZ	10/9/2014	09:06		10/9/2014	09:15
09000009.D	ZZZZZZ	ZZZZZZ	10/9/2014	09:18		10/9/2014	09:27
09000010.D	ZZZZZZ	ZZZZZZ	10/9/2014	09:30		10/9/2014	09:39
09000011.D	ZZZZZZ	ZZZZZZ	10/9/2014	09:43		10/9/2014	09:51
09000013.D	BXS-1	K1410695-001	10/9/2014	10:07		10/9/2014	10:16
09000014.D	ZZZZZZ	ZZZZZZ	10/9/2014	10:19		10/9/2014	10:28
09000015.D	Continuing Calibration Verification	KWG1413697-3	10/9/2014	10:32		10/9/2014	10:40
09000016.D	Instrument Blank	KWG1413697-4	10/9/2014	10:44		10/9/2014	10:53

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program
Sample Matrix: Water

Service Request: K1410695
Date Extracted: 10/02/2014

Extraction Prep Log
Pentachlorophenol

Extraction Method: Method Mod
Analysis Method: 8151M

Extraction Lot: KWG1413617
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BXS-1	K1410695-001	09/29/14	10/01/14	5mL	1mL	NA	
BXS-2	K1410695-002	09/29/14	10/01/14	5mL	1mL	NA	
BXS-5	K1410695-005	09/29/14	10/01/14	5mL	1mL	NA	
Method Blank	KWG1413617-4	NA	NA	5mL	1mL	NA	
Batch QC	K1410700-022	NA	NA	5mL	1mL	NA	
Batch QCMS	KWG1413617-1	NA	NA	5mL	1mL	NA	
Batch QCDMS	KWG1413617-2	NA	NA	5mL	1mL	NA	
Lab Control Sample	KWG1413617-3	NA	NA	5mL	1mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	BXS-1	**Units:**	ug/L
Lab Code:	K1410695-001	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	49	56	13.3		1	10/09/14

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	BXS-5	**Units:**	ug/L
Lab Code:	K1410695-005	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	43	49	13.0		1	10/08/14

ALS Environmental

Polynuclear Aromatic Hydrocarbons

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Cover Page - Organic Analysis Data Package
Polynuclear Aromatic Hydrocarbons

Sample Name	Lab Code	Date Collected	Date Received
BXS-1	K1410695-001	09/29/2014	10/01/2014
BXS-2	K1410695-002	09/29/2014	10/01/2014
BXS-3	K1410695-003	09/29/2014	10/01/2014
BXS-4	K1410695-004	09/29/2014	10/01/2014
BXS-5	K1410695-005	09/29/2014	10/01/2014

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	BXS-1	**Units:**	ug/L
Lab Code:	K1410695-001	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.013**	J	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.020	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.020	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.020	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	**0.0082**	J	0.020	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.020	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.020	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	94	46-114	10/15/14	Acceptable
Fluoranthene-d10	95	51-121	10/15/14	Acceptable
Terphenyl-d14	78	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	BXS-2	**Units:**	ug/L
Lab Code:	K1410695-002	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.020**	J	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.020	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.020	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.020	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	**0.011**	J	0.020	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.020	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.020	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	88	46-114	10/15/14	Acceptable
Fluoranthene-d10	91	51-121	10/15/14	Acceptable
Terphenyl-d14	78	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	BXS-3	**Units:**	ug/L
Lab Code:	K1410695-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.012**	J	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.020	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.020	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.020	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.020	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.020	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.020	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.020	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.020	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	97	46-114	10/15/14	Acceptable
Fluoranthene-d10	98	51-121	10/15/14	Acceptable
Terphenyl-d14	82	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	BXS-4	**Units:**	ug/L
Lab Code:	K1410695-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.018**	J	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	**0.0027**	J	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	95	46-114	10/15/14	Acceptable
Fluoranthene-d10	96	51-121	10/15/14	Acceptable
Terphenyl-d14	78	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	BXS-5	**Units:**	ug/L
Lab Code:	K1410695-005	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.019**	J	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	**0.0024**	J	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	98	46-114	10/15/14	Acceptable
Fluoranthene-d10	96	51-121	10/15/14	Acceptable
Terphenyl-d14	81	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413493-3	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	96	46-114	10/15/14	Acceptable
Fluoranthene-d10	96	51-121	10/15/14	Acceptable
Terphenyl-d14	80	58-140	10/15/14	Acceptable

Comments:

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program
Sample Matrix: Water

Service Request: K1410695

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
BXS-1	K1410695-001	94	95	78
BXS-2	K1410695-002	88	91	78
BXS-3	K1410695-003	97	98	82
BXS-4	K1410695-004	95	96	78
BXS-5	K1410695-005	98	96	81
Method Blank	KWG1413493-3	96	96	80
Lab Control Sample	KWG1413493-1	89	92	77
Duplicate Lab Control Sample	KWG1413493-2	100	103	85

Surrogate Recovery Control Limits (%)

Sur1 =	Fluorene-d10	46-114
Sur2 =	Fluoranthene-d10	51-121
Sur3 =	Terphenyl-d14	58-140

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/15/2014
Time Analyzed: 13:17

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F006.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1414042-2
Analysis Lot: KWG1414042

		Naphthalene-d8		Acenaphthene-d10		Phenanthrene-d10	
		Area	RT	Area	RT	Area	RT
	Results ==>	158,293	4.64	75,872	6.27	142,971	7.52
	Upper Limit ==>	316,586	5.14	151,744	6.77	285,942	8.02
	Lower Limit ==>	79,147	4.14	37,936	5.77	71,486	7.02
	ICAL Result ==>	131,378	4.69	71,629	6.31	141,192	7.56
Associated Analyses							
Method Blank	KWG1413493-3	136,136	4.64	69,670	6.27	137,978	7.52
Lab Control Sample	KWG1413493-1	136,654	4.64	68,616	6.27	130,647	7.52
Duplicate Lab Control Sample	KWG1413493-2	137,594	4.64	68,307	6.27	130,836	7.52
BXS-1	K1410695-001	137,973	4.64	71,540	6.27	128,988	7.52
BXS-2	K1410695-002	137,056	4.64	71,336	6.27	129,505	7.52
BXS-3	K1410695-003	131,284	4.64	69,482	6.27	125,723	7.52
BXS-4	K1410695-004	135,776	4.64	71,443	6.27	135,455	7.52
BXS-5	K1410695-005	139,638	4.64	71,341	6.27	133,862	7.52

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/15/2014
Time Analyzed: 13:17

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F006.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1414042-2
Analysis Lot: KWG1414042

		Chrysene-d12		Perylene-d12	
		Area	RT	Area	RT
	Results ==>	136,564	10.05	128,789	13.18
	Upper Limit ==>	273,128	10.55	257,578	13.68
	Lower Limit ==>	68,282	9.55	64,395	12.68
	ICAL Result ==>	143,575	10.11	157,982	13.25
Associated Analyses					
Method Blank	KWG1413493-3	131,178	10.05	126,701	13.17
Lab Control Sample	KWG1413493-1	125,566	10.04	119,861	13.16
Duplicate Lab Control Sample	KWG1413493-2	126,170	10.04	122,171	13.16
BXS-1	K1410695-001	130,500	10.05	127,352	13.16
BXS-2	K1410695-002	125,180	10.05	128,430	13.17
BXS-3	K1410695-003	124,585	10.05	127,674	13.17
BXS-4	K1410695-004	132,028	10.04	127,683	13.16
BXS-5	K1410695-005	131,223	10.05	130,208	13.16

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program
Sample Matrix: Water

Service Request: K1410695
Date Extracted: 10/06/2014
Date Analyzed: 10/15/2014

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1413493

	Lab Control Sample KWG1413493-1 Lab Control Spike			Duplicate Lab Control Sample KWG1413493-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	1.98	2.50	79	2.19	2.50	88	39-110	10	30
2-Methylnaphthalene	1.90	2.50	76	2.10	2.50	84	39-115	10	30
Acenaphthylene	2.12	2.50	85	2.35	2.50	94	44-115	10	30
Acenaphthene	2.31	2.50	92	2.56	2.50	102	44-113	10	30
Fluorene	2.40	2.50	96	2.62	2.50	105	48-118	9	30
Phenanthrene	2.53	2.50	101	2.78	2.50	111	47-120	9	30
Anthracene	2.52	2.50	101	2.77	2.50	111	44-117	10	30
Fluoranthene	2.47	2.50	99	2.70	2.50	108	48-128	9	30
Pyrene	2.56	2.50	103	2.76	2.50	110	42-133	7	30
Benz(a)anthracene	2.64	2.50	106	2.86	2.50	115	48-125	8	30
Chrysene	2.83	2.50	113	3.05	2.50	122	50-128	7	30
Benzo(b)fluoranthene	2.98	2.50	119	3.18	2.50	127	49-131	7	30
Benzo(k)fluoranthene	2.92	2.50	117	3.15	2.50	126	54-131	8	30
Benzo(a)pyrene	2.70	2.50	108	2.93	2.50	117	43-134	8	30
Indeno(1,2,3-cd)pyrene	2.21	2.50	88	2.45	2.50	98	45-133	10	30
Dibenz(a,h)anthracene	2.43	2.50	97	2.60	2.50	104	49-133	7	30
Benzo(g,h,i)perylene	2.37	2.50	95	2.53	2.50	101	51-124	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/15/2014
		Time Analyzed:	14:25

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Instrument ID:**	MS14
Lab Code:	KWG1413493-3	**File ID:**	J:\MS14\DATA\101514\1015F009.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413493

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1413493-1	J:\MS14\DATA\101514\1015F016.D	10/15/14	17:03
Duplicate Lab Control Sample	KWG1413493-2	J:\MS14\DATA\101514\1015F017.D	10/15/14	17:25
BXS-1	K1410695-001	J:\MS14\DATA\101514\1015F018.D	10/15/14	17:48
BXS-2	K1410695-002	J:\MS14\DATA\101514\1015F019.D	10/15/14	18:10
BXS-3	K1410695-003	J:\MS14\DATA\101514\1015F020.D	10/15/14	18:33
BXS-4	K1410695-004	J:\MS14\DATA\101514\1015F021.D	10/15/14	18:56
BXS-5	K1410695-005	J:\MS14\DATA\101514\1015F022.D	10/15/14	19:19

Client:	JH Baxter & Company	**Service Request:**	K1410695
Project:	Arlington Landfill Wells/Landfill Program	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/15/2014
		Time Analyzed:	17:03

Lab Control Sample Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Lab Control Sample	**Instrument ID:**	MS14
Lab Code:	KWG1413493-1	**File ID:**	J:\MS14\DATA\101514\1015F016.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413493

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1413493-3	J:\MS14\DATA\101514\1015F009.D	10/15/14	14:25
BXS-1	K1410695-001	J:\MS14\DATA\101514\1015F018.D	10/15/14	17:48
BXS-2	K1410695-002	J:\MS14\DATA\101514\1015F019.D	10/15/14	18:10
BXS-3	K1410695-003	J:\MS14\DATA\101514\1015F020.D	10/15/14	18:33
BXS-4	K1410695-004	J:\MS14\DATA\101514\1015F021.D	10/15/14	18:56
BXS-5	K1410695-005	J:\MS14\DATA\101514\1015F022.D	10/15/14	19:19

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/15/2014
Time Analyzed: 11:47

Tune Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F005.D
Instrument ID: MS14
Column:

Analysis Method: 8270D SIM
Analysis Lot: KWG1414042

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	43.4	26018	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	49.2	29448	PASS
70	69	0	2	1.0	308	PASS
127	198	10	80	50.8	30418	PASS
197	198	0	2	0.0	0	PASS
198	442	30	100	62.8	59906	PASS
199	198	5	9	7.3	4356	PASS
275	198	10	60	33.9	20337	PASS
365	442	1	50	3.5	3374	PASS
441	443	0	100	73.7	14366	PASS
442	442	100	100	100.0	95450	PASS
443	442	15	24	20.4	19480	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1414042-2	J:\MS14\DATA\101514\1015F006.D	10/15/2014	13:17	
Method Blank	KWG1413493-3	J:\MS14\DATA\101514\1015F009.D	10/15/2014	14:25	
Lab Control Sample	KWG1413493-1	J:\MS14\DATA\101514\1015F016.D	10/15/2014	17:03	
Duplicate Lab Control Sample	KWG1413493-2	J:\MS14\DATA\101514\1015F017.D	10/15/2014	17:25	
BXS-1	K1410695-001	J:\MS14\DATA\101514\1015F018.D	10/15/2014	17:48	
BXS-2	K1410695-002	J:\MS14\DATA\101514\1015F019.D	10/15/2014	18:10	
BXS-3	K1410695-003	J:\MS14\DATA\101514\1015F020.D	10/15/2014	18:33	
BXS-4	K1410695-004	J:\MS14\DATA\101514\1015F021.D	10/15/2014	18:56	
BXS-5	K1410695-005	J:\MS14\DATA\101514\1015F022.D	10/15/2014	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS14\DATA\072214\0722F007.D	G	J:\MS14\DATA\072214\0722F013.D
B	J:\MS14\DATA\072214\0722F008.D	H	J:\MS14\DATA\072314\0723F002.D
C	J:\MS14\DATA\072214\0722F009.D	I	J:\MS14\DATA\072314\0723F003.D
D	J:\MS14\DATA\072214\0722F010.D	J	J:\MS14\DATA\072314\0723F004.D
E	J:\MS14\DATA\072214\0722F011.D		
F	J:\MS14\DATA\072214\0722F012.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	20	1.11	B	100	1.07	C	200	1.11	D	400	1.08	E	1000	1.05
	F	1600	0.992	G	2000	0.997	H	2.0	1.07	I	4.0	1.10	J	8.0	1.03
2-Methylnaphthalene	A	20	0.792	B	100	0.758	C	200	0.783	D	400	0.749	E	1000	0.717
	F	1600	0.667	G	2000	0.669	H	2.0	0.767	I	4.0	0.775	J	8.0	0.734
Acenaphthylene	A	20	2.13	B	100	2.09	C	200	2.18	D	400	2.10	E	1000	2.00
	F	1600	1.85	G	2000	1.83	H	2.0	1.98	I	4.0	2.06	J	8.0	1.94
Acenaphthene	A	20	1.23	B	100	1.20	C	200	1.25	D	400	1.18	E	1000	1.14
	F	1600	1.06	G	2000	1.05	H	2.0	1.17	I	4.0	1.23	J	8.0	1.15
Fluorene	A	20	1.55	B	100	1.51	C	200	1.55	D	400	1.47	E	1000	1.40
	F	1600	1.29	G	2000	1.27	H	2.0	1.51	I	4.0	1.55	J	8.0	1.47
Phenanthrene	A	20	1.17	B	100	1.12	C	200	1.17	D	400	1.11	E	1000	1.07
	F	1600	0.970	G	2000	0.971	H	2.0	1.20	I	4.0	1.17	J	8.0	1.10
Anthracene	A	20	1.15	B	100	1.12	C	200	1.18	D	400	1.11	E	1000	1.07
	F	1600	0.977	G	2000	0.980	H	2.0	1.10	I	4.0	1.14	J	8.0	1.11
Fluoranthene	A	20	1.40	B	100	1.36	C	200	1.41	D	400	1.31	E	1000	1.24
	F	1600	1.12	G	2000	1.11	H	2.0	1.31	I	4.0	1.34	J	8.0	1.27
Pyrene	A	20	1.44	B	100	1.39	C	200	1.44	D	400	1.39	E	1000	1.36
	F	1600	1.28	G	2000	1.30	H	2.0	1.38	I	4.0	1.43	J	8.0	1.40
Benz(a)anthracene	A	20	1.20	B	100	1.17	C	200	1.24	D	400	1.22	E	1000	1.23
	F	1600	1.18	G	2000	1.21	H	2.0	1.40	I	4.0	1.27	J	8.0	1.14
Chrysene	A	20	1.08	B	100	1.06	C	200	1.12	D	400	1.09	E	1000	1.11
	F	1600	1.07	G	2000	1.09	H	2.0	1.15	I	4.0	1.09	J	8.0	1.03
Benzo(b)fluoranthene	A	20	1.25	B	100	1.23	C	200	1.32	D	400	1.26	E	1000	1.26
	F	1600	1.20	G	2000	1.23	H	2.0	1.19	I	4.0	1.19	J	8.0	1.15
Benzo(k)fluoranthene	A	20	1.24	B	100	1.22	C	200	1.27	D	400	1.22	E	1000	1.21
	F	1600	1.16	G	2000	1.18	H	2.0	1.42	I	4.0	1.18	J	8.0	1.11
Benzo(a)pyrene	A	20	1.39	B	100	1.18	C	200	1.22	D	400	1.17	E	1000	1.17
	F	1600	1.13	G	2000	1.15	H	2.0	1.24	I	4.0	1.11	J	8.0	1.04

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Indeno(1,2,3-cd)pyrene	A	20	1.37	B	100	1.30	C	200	1.42	D	400	1.36	E	1000	1.33
	F	1600	1.26	G	2000	1.28	H	2.0	1.31	I	4.0	1.32	J	8.0	1.23
Dibenz(a,h)anthracene	A	20	1.32	B	100	1.32	C	200	1.38	D	400	1.33	E	1000	1.31
	F	1600	1.23	G	2000	1.24	H	2.0	1.12	I	4.0	1.25	J	8.0	1.13
Benzo(g,h,i)perylene	A	20	1.54	B	100	1.47	C	200	1.51	D	400	1.43	E	1000	1.37
	F	1600	1.29	G	2000	1.30	H	2.0	1.46	I	4.0	1.55	J	8.0	1.43
Fluorene-d10	A	20	1.22	B	100	1.18	C	200	1.22	D	400	1.17	E	1000	1.13
	F	1600	1.04	G	2000	1.04	H	2.0	1.33	I	4.0	1.28	J	8.0	1.20
Fluoranthene-d10	A	20	1.15	B	100	1.15	C	200	1.21	D	400	1.14	E	1000	1.10
	F	1600	1.01	G	2000	1.01	H	2.0	1.17	I	4.0	1.19	J	8.0	1.12
Terphenyl-d14	A	20	0.924	B	100	0.892	C	200	0.929	D	400	0.885	E	1000	0.846
	F	1600	0.787	G	2000	0.782	H	2.0	0.983	I	4.0	1.01	J	8.0	0.957

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

		Calibration Evaluation					RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Naphthalene	MS	AverageRF	% RSD	4.1		≤20	1.06		0.70
2-Methylnaphthalene	MS	AverageRF	% RSD	6.0		≤20	0.741		0.40
Acenaphthylene	MS	AverageRF	% RSD	5.8		≤20	2.02		0.90
Acenaphthene	MS	AverageRF	% RSD	5.9		≤20	1.16		0.90
Fluorene	MS	AverageRF	% RSD	7.3		≤20	1.46		0.90
Phenanthrene	MS	AverageRF	% RSD	7.4		≤20	1.10		0.70
Anthracene	MS	AverageRF	% RSD	6.2		≤20	1.09		0.70
Fluoranthene	MS	AverageRF	% RSD	8.0		≤20	1.29		0.60
Pyrene	MS	AverageRF	% RSD	3.9		≤20	1.38		0.60
Benz(a)anthracene	MS	AverageRF	% RSD	5.7		≤20	1.23		0.80
Chrysene	MS	AverageRF	% RSD	2.9		≤20	1.09		0.70
Benzo(b)fluoranthene	MS	AverageRF	% RSD	4.0		≤20	1.23		0.70
Benzo(k)fluoranthene	MS	AverageRF	% RSD	7.0		≤20	1.22		0.70
Benzo(a)pyrene	MS	AverageRF	% RSD	7.8		≤20	1.18		0.70
Indeno(1,2,3-cd)pyrene	MS	AverageRF	% RSD	4.1		≤20	1.32		0.50
Dibenz(a,h)anthracene	MS	AverageRF	% RSD	6.9		≤20	1.26		0.40
Benzo(g,h,i)perylene	MS	AverageRF	% RSD	6.4		≤20	1.43		0.50
Fluorene-d10	SURR	AverageRF	% RSD	7.8		≤20	1.18		0.01
Fluoranthene-d10	SURR	AverageRF	% RSD	5.9		≤20	1.13		0.01
Terphenyl-d14	SURR	AverageRF	% RSD	8.6		≤20	0.900		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Calibration Date: 07/22/2014
Date Analyzed: 07/23/2014

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

Calibration Type: Internal Standard
Analysis Method: 8270D SIM

Calibration ID: CAL13446
Units: ng/ml

File ID: J:\MS14\DATA\072314\0723F005.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Naphthalene	400	380	1.06	0.998	-6	NA	± 30 %	AverageRF
2-Methylnaphthalene	400	360	0.741	0.672	-9	NA	± 30 %	AverageRF
Acenaphthylene	400	370	2.02	1.89	-6	NA	± 30 %	AverageRF
Acenaphthene	400	370	1.16	1.09	-6	NA	± 30 %	AverageRF
Fluorene	400	370	1.46	1.34	-8	NA	± 30 %	AverageRF
Phenanthrene	400	370	1.10	1.03	-7	NA	± 30 %	AverageRF
Anthracene	400	360	1.09	0.988	-10	NA	± 30 %	AverageRF
Fluoranthene	400	370	1.29	1.20	-7	NA	± 30 %	AverageRF
Pyrene	400	360	1.38	1.25	-10	NA	± 30 %	AverageRF
Benz(a)anthracene	400	360	1.23	1.10	-11	NA	± 30 %	AverageRF
Chrysene	400	380	1.09	1.03	-6	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	400	380	1.23	1.17	-4	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	400	360	1.22	1.11	-9	NA	± 30 %	AverageRF
Benzo(a)pyrene	400	370	1.18	1.09	-8	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	400	390	1.32	1.27	-4	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	400	380	1.26	1.21	-4	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	400	370	1.43	1.33	-7	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

+ **SPCC Compound**

‡ **CCC Compound**

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695
Date Analyzed: 10/15/2014

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

Calibration Type: Internal Standard
Analysis Method: 8270D SIM

Calibration Date: 07/22/2014
Calibration ID: CAL13446
Analysis Lot: KWG1414042
Units: ng/ml

File ID: J:\MS14\DATA\101514\1015F006.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Naphthalene	400	380	0.70	1.06	0.996	-6	NA	± 20	AverageRF
2-Methylnaphthalene	400	360	0.40	0.741	0.665	-10	NA	± 20	AverageRF
Acenaphthylene	400	390	0.90	2.02	1.98	-2	NA	± 20	AverageRF
Acenaphthene	400	410	0.90	1.16	1.18	1	NA	± 20	AverageRF
Fluorene	400	400	0.90	1.46	1.44	-1	NA	± 20	AverageRF
Phenanthrene	400	410	0.70	1.10	1.12	2	NA	± 20	AverageRF
Anthracene	400	390	0.70	1.09	1.06	-3	NA	± 20	AverageRF
Fluoranthene	400	390	0.60	1.29	1.26	-2	NA	± 20	AverageRF
Pyrene	400	400	0.60	1.38	1.38	0	NA	± 20	AverageRF
Benz(a)anthracene	400	420	0.80	1.23	1.28	4	NA	± 20	AverageRF
Chrysene	400	430	0.70	1.09	1.17	8	NA	± 20	AverageRF
Benzo(b)fluoranthene	400	470	0.70	1.23	1.44	17	NA	± 20	AverageRF
Benzo(k)fluoranthene	400	460	0.70	1.22	1.41	16	NA	± 20	AverageRF
Benzo(a)pyrene	400	430	0.70	1.18	1.27	8	NA	± 20	AverageRF
Indeno(1,2,3-cd)pyrene	400	380	0.50	1.32	1.24	-6	NA	± 20	AverageRF
Dibenz(a,h)anthracene	400	390	0.40	1.26	1.24	-2	NA	± 20	AverageRF
Benzo(g,h,i)perylene	400	380	0.50	1.43	1.36	-5	NA	± 20	AverageRF
Fluorene-d10	400	400	0.01	1.18	1.17	-1	NA	± 20	AverageRF
Fluoranthene-d10	400	400	0.01	1.13	1.12	0	NA	± 20	AverageRF
Terphenyl-d14	400	360	0.01	0.900	0.806	-10	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program

Service Request: K1410695

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: 8270D SIM

Analysis Lot: KWG1414042
Instrument ID: MS14

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1015F005.D	GC/MS Tuning - Decafluorotriphenylphosph	KWG1414042-1	10/15/2014	11:47		10/15/2014	12:07
1015F006.D	Continuing Calibration Verification	KWG1414042-2	10/15/2014	13:17		10/15/2014	13:35
1015F007.D	ZZZZZZ	ZZZZZZ	10/15/2014	13:40		10/15/2014	13:58
1015F008.D	ZZZZZZ	ZZZZZZ	10/15/2014	14:02		10/15/2014	14:20
1015F009.D	Method Blank	KWG1413493-3	10/15/2014	14:25		10/15/2014	14:43
1015F010.D	ZZZZZZ	ZZZZZZ	10/15/2014	14:48		10/15/2014	15:06
1015F011.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:10		10/15/2014	15:28
1015F012.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:32		10/15/2014	15:50
1015F013.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:55		10/15/2014	16:13
1015F014.D	ZZZZZZ	ZZZZZZ	10/15/2014	16:18		10/15/2014	16:36
1015F015.D	ZZZZZZ	ZZZZZZ	10/15/2014	16:40		10/15/2014	16:58
1015F016.D	Lab Control Sample	KWG1413493-1	10/15/2014	17:03		10/15/2014	17:21
1015F017.D	Duplicate Lab Control Sample	KWG1413493-2	10/15/2014	17:25		10/15/2014	17:43
1015F018.D	BXS-1	K1410695-001	10/15/2014	17:48		10/15/2014	18:06
1015F019.D	BXS-2	K1410695-002	10/15/2014	18:10		10/15/2014	18:28
1015F020.D	BXS-3	K1410695-003	10/15/2014	18:33		10/15/2014	18:51
1015F021.D	BXS-4	K1410695-004	10/15/2014	18:56		10/15/2014	19:14
1015F022.D	BXS-5	K1410695-005	10/15/2014	19:19		10/15/2014	19:37
1015F023.D	ZZZZZZ	ZZZZZZ	10/15/2014	19:41		10/15/2014	19:59
1015F024.D	ZZZZZZ	ZZZZZZ	10/15/2014	20:03		10/15/2014	20:21
1015F025.D	ZZZZZZ	ZZZZZZ	10/15/2014	20:26		10/15/2014	20:44
1015F026.D	ZZZZZZ	ZZZZZZ	10/15/2014	20:48		10/15/2014	21:06
1015F027.D	ZZZZZZ	ZZZZZZ	10/15/2014	21:11		10/15/2014	21:29

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: JH Baxter & Company
Project: Arlington Landfill Wells/Landfill Program
Sample Matrix: Water

Service Request: K1410695
Date Extracted: 10/06/2014

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Extraction Lot: KWG1413493
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BXS-1	K1410695-001	09/29/14	10/01/14	1040ml	5ml	NA	
BXS-2	K1410695-002	09/29/14	10/01/14	1040ml	5ml	NA	
BXS-3	K1410695-003	09/29/14	10/01/14	1000ml	5ml	NA	
BXS-4	K1410695-004	09/29/14	10/01/14	1060ml	5ml	NA	
BXS-5	K1410695-005	09/29/14	10/01/14	1060ml	5ml	NA	
Method Blank	KWG1413493-3	NA	NA	1060ml	5ml	NA	
Lab Control Sample	KWG1413493-1	NA	NA	1000ml	5ml	NA	
Duplicate Lab Control Sample	KWG1413493-2	NA	NA	1000ml	5ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Environmental
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October 22, 2014

Analytical Report for Service Request No: K1410700

Scott Thielke
JH Baxter & Company
85 N. Baxter Road
P.O. Box 10797
Eugene, OR 97440

RE: JH Baxter - Arlington

Dear Scott:

Enclosed are the results of the samples submitted to our laboratory on October 01, 2014. For your reference, these analyses have been assigned our service request number K1410700.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3363. You may also contact me via Email at Lisa.Domenighini@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Lisa A. Domenighini

Lisa Domenighini
Project Manager

LD/aj

RIGHT SOLUTIONS | RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

ALS Environmental

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	JH Baxter	**Service Request No.:**	K1410700
Project:	JH Baxter - Arlington	**Date Received:**	10/01/14
Sample Matrix:	Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-two water samples were received for analysis at ALS Environmental on 10/01/14. The samples were received in good condition and consistent with the accompanying chain of custody form, except where noted on the cooler receipt and preservation form included in this report. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Pentachlorophenol by EPA Method 8151

Calibration Verification Exceptions:
The analysis of Pentachlorophenol by EPA 8151M requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for 4-Bromo-2, 6-dichlorophenol in several associated CCVs. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Elevated Detection Limits:
Several field samples required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Surrogate Exceptions:
The upper control criterion was exceeded for 4-Bromo-2, 6-dichlorophenol in sample MW-15. No target analytes were detected in the sample. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Pentachlorophenol for sample MW-37 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Approved by Lisa A. Jomenighini

Polynuclear Aromatic Hydrocarbons by EPA Method 8270

Sample Notes and Discussion:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). An MS and Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) were analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by Lisa A. Domenighini

ALS Environmental

Chain of Custody

ALS Environmental—Kelso Laboratory
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ALS

1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

SR# K1410700

PAGE ____ OF ____

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

	Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	SM 4500-H+ B / Ph (0H)	8270 D / PAH SIM (7D)	120.1 / Cond Spec (28D)	300.0 Chloride (28D)	300.0 / SO4 (28D)	350.1 / Ammonia T (28D)	353.2 / NO2 NO3 T (28D)	SM 5220 C / COD T (28D)	SM 5310 / TOC T (28D)	SM 5550 B / Tan Lign (28D)	6010 C / Metals D (180D)	6020A / AS D (180D)	8151 A Modified / PCP only (7D)	REMARKS
1	HCMW-7	9/29	1019		water	1													X	
2	MW-15	9/29	1015		water	2		X											X	
3	MW-16	9/28	1609		water	2		X											X	
4	MW-17	9/28	1703		water	2		X											X	
5	MW-18	9/28	0826		water	2		X											X	
6	MW-2	9/28	1457		water	2		X											X	
7	MW-22	9/28	1223		water	1													X	
8	MW-23	9/28	1245		water	1													X	
9	MW-24	9/28	1519		water	1													X	
10	MW-25	9/28	1350		water	1													X	
11	MW-26	9/28	1418		water	1													X	

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co
San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

____ II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

X IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Mike D	Signature: [illegible]	Signature:	Signature:
Printed Name: Mike Duch	Printed Name: [illegible]	Printed Name:	Printed Name:
Firm: JH Baxter	Firm: ALS	Firm:	Firm:
Date/Time: 9/30 0800	Date/Time: 10/1/14 1000	Date/Time:	Date/Time:

ALS

1317 South 13th, Kelso, WA 98626 (360) 577-7222 FAX (360) 636-1068

SR# K1410700

PAGE ____ OF ____

0H	7D	28D	1600	7D

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

Analysis Requested

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	SM 4500-H+ B / Ph	8270 D / PAH SIM	120.1 / Cond Spec	300.0 Chloride	300.0 / SO4	350.1 / Ammonia T	353.2 / NO2 NO3 T	SM 5220 C / COD T	SM 5310 / TOC T	SM 5550 B / Tan Lign	6010 C / Metals D	6020A / AS D	8151 A Modified / PCP only	REMARKS
MW - 27	9/28	1445		water	1													X	
MW - 28	9/29	1224		water	1													X	
MW - 29	9/28	1630		water	1													X	
MW - 30	9/28	1753		water	2		X											X	
MW - 31	9/28	1818		water	1													X	
MW - 32	9/28	1320		water	1													X	
MW - 33	9/28	1558		water	1													X	
MW - 34	9/28	1658		water	1													X	
MW - 35	9/28	1355		water	2		X											X	
MW - 36	9/29	1325		water	2		X											X	
MW - 37	9/29	0921		water	2		X											X	

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co
San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

____ II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

X IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: M. Duchi	Signature: [signature]	Signature:	Signature:
Printed Name: Mike Duchi	Printed Name: A Ryanna	Printed Name:	Printed Name:
Firm: JH Baxter	Firm: ALS	Firm:	Firm:
Date/Time: 9/30 0800	Date/Time: 10/1/14 1000	Date/Time:	Date/Time:

ALS

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SR# K1410700

PAGE ____ OF ____

Project Name: JH Baxter - Arlington Project Number: ____

Project Manager: ____ Company: JH Baxter

Company/Address: 85 N Baxter Rd Phone: 541-689-3801

City, State, Zip: Eugene, OR 97402 FAX: 541-689-0769

Sampler's Signature: ____

	Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	0H: SM 4500-H+ B / Ph	7D: 8270 D / PAH SIM	28D: 120.1 / Cond Spec	28D: 300.0 Chloride	28D: 300.0 / SO4	28D: 350.1 / Ammonia T	28D: 353.2 / NO2 NO3 T	28D: SM 5220 C / COD T	28D: SM 5310 / TOC T	28D: SM 5550 B / Tan Lign	180D: 6010 C / Metals D	180D: 6020A / AS D	7D: 8151 A Modified / PCP only	REMARKS
3	MW - 38	9/29	1728		water	1													X	
4	MW - 39	9/29	1113		water	1													X	
5	MW - 40	9/29	1153		water	1													X	
24	MW - 41	9/29	1442		water	1													X	
7	MW - 42	9/29	838		water	1													X	
8	MW - 43	9/29	0944		water	1													X	
9	MW - 45	9/29	1900		water	1													X	No pH or conductivity
10	FIELD BLANK RINSATE	9/29	1750		water	2	x												X	on field blank
31	MW - 3	09/29	1245		water	2	x												X	
	*																			

TURNAROUND REQUIREMENTS

____ 24 hr ____ 48 hr ____ 5 day

X Standard (21 days)

____ Provide FAX Preliminary Results

Requested Report Date: ____

Invoice Information

P.O. # ____

Bill to: JH Baxter & Co

San Mateo CA,94402

REPORT REQUIREMENTS

____ I. Routine Report: Results, Method Blank, Surrogate, as required

____ II. Report Dup., MS, MSD as required

____ III. Data Validation Report (includes raw data)

X IV. CLP Deliverable Report

____ V. EDD

Comments/Special Instructions:

* 4 TRIP BLANKS

Questions? - Please Call Steve Barnett 503-639-3400

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: ____	Signature: ____
Printed Name: Mike Duchi	Printed Name: A Clymer	Printed Name: ____	Printed Name: ____
Firm: JH Baxter	Firm: ALS	Firm: ____	Firm: ____
Date/Time: 9/30 0800	Date/Time: 10/1/17 1000	Date/Time: ____	Date/Time: ____

PC LISA

Cooler Receipt and Preservation Form

Client / Project: JH BAXTER Service Request K14 10700

Received: 10/1/14 Opened: 10/1/14 By: [illegible] Unloaded: 10/1/14 By: [illegible]

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 3 FRONT 1 BACK

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.3	0.5	4.9	4.9	0	351		547897375210	
1.6	1.7	2.7	2.8	0.1	316		547897375237	
2.0	2.0	4/P	—	0	276		547897375003	
5.9	5.8	3.8	3.7	-0.1	339		547897375220	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: RECEIVED 4 TRIPS NOT ON COC

Page ____ *of* ____

ALS Environmental

Pentachlorophenol

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Cover Page - Organic Analysis Data Package
Pentachlorophenol

Sample Name	Lab Code	Date Collected	Date Received
HCMW-7	K1410700-001	09/29/2014	10/01/2014
MW-15	K1410700-002	09/29/2014	10/01/2014
MW-16	K1410700-003	09/28/2014	10/01/2014
MW-17	K1410700-004	09/28/2014	10/01/2014
MW-18	K1410700-005	09/28/2014	10/01/2014
MW-2	K1410700-006	09/28/2014	10/01/2014
MW-22	K1410700-007	09/28/2014	10/01/2014
MW-23	K1410700-008	09/28/2014	10/01/2014
MW-24	K1410700-009	09/28/2014	10/01/2014
MW-25	K1410700-010	09/28/2014	10/01/2014
MW-26	K1410700-011	09/28/2014	10/01/2014
MW-27	K1410700-012	09/28/2014	10/01/2014
MW-28	K1410700-013	09/29/2014	10/01/2014
MW-29	K1410700-014	09/28/2014	10/01/2014
MW-30	K1410700-015	09/28/2014	10/01/2014
MW-31	K1410700-016	09/28/2014	10/01/2014
MW-32	K1410700-017	09/28/2014	10/01/2014
MW-33	K1410700-018	09/28/2014	10/01/2014
MW-34	K1410700-019	09/28/2014	10/01/2014
MW-35	K1410700-020	09/28/2014	10/01/2014
MW-36	K1410700-021	09/29/2014	10/01/2014
MW-37	K1410700-022	09/29/2014	10/01/2014
MW-38	K1410700-023	09/28/2014	10/01/2014
MW-39	K1410700-024	09/29/2014	10/01/2014
MW-40	K1410700-025	09/29/2014	10/01/2014
MW-41	K1410700-026	09/29/2014	10/01/2014
MW-42	K1410700-027	09/29/2014	10/01/2014
MW-43	K1410700-028	09/29/2014	10/01/2014
MW-45	K1410700-029	09/28/2014	10/01/2014
FIELD BLANK RINSATE	K1410700-030	09/29/2014	10/01/2014
MW-3	K1410700-031	09/28/2014	10/01/2014
HCMW-7MS	KWG1413595-1	09/29/2014	10/01/2014
HCMW-7DMS	KWG1413595-2	09/29/2014	10/01/2014
MW-37MS	KWG1413617-1	09/29/2014	10/01/2014
MW-37DMS	KWG1413617-2	09/29/2014	10/01/2014

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	HCMW-7	**Units:**	ug/L
Lab Code:	K1410700-001	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	95	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	K1410700-002	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	136	33-114	10/08/14	Outside Control Limits

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	K1410700-003	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	92	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	K1410700-004	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	87	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	K1410700-005	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	82	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	K1410700-006	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	85	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-22	**Units:**	ug/L
Lab Code:	K1410700-007	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**140**		0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	90	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-23	**Units:**	ug/L
Lab Code:	K1410700-008	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**230**	D	2.5	0.80	5	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	88	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-24	**Units:**	ug/L
Lab Code:	K1410700-009	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**280**	D	2.5	0.80	5	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	93	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	K1410700-010	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**180**	D	2.5	0.80	5	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	92	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-26	**Units:**	ug/L
Lab Code:	K1410700-011	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**0.22**	JP	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	93	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-27	**Units:**	ug/L
Lab Code:	K1410700-012	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	85	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	K1410700-013	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**13**		0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	109	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-29	**Units:**	ug/L
Lab Code:	K1410700-014	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**170**	D	2.5	0.80	5	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	84	33-114	10/09/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-30	**Units:**	ug/L
Lab Code:	K1410700-015	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	85	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-31	**Units:**	ug/L
Lab Code:	K1410700-016	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**0.29**	J	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	80	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-32	**Units:**	ug/L
Lab Code:	K1410700-017	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**480**	D	2.5	0.80	5	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	83	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-33	**Units:**	ug/L
Lab Code:	K1410700-018	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**23**		0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	77	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-34	**Units:**	ug/L
Lab Code:	K1410700-019	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**900**	D	5.0	1.6	10	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	82	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-35	**Units:**	ug/L
Lab Code:	K1410700-020	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	77	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-36	**Units:**	ug/L
Lab Code:	K1410700-021	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**120**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	97	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	K1410700-022	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**65**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	97	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-38	**Units:**	ug/L
Lab Code:	K1410700-023	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	53	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-39	**Units:**	ug/L
Lab Code:	K1410700-024	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**120**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	82	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-40	**Units:**	ug/L
Lab Code:	K1410700-025	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**290**	D	5.0	1.6	10	10/02/14	10/09/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	72	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-41	**Units:**	ug/L
Lab Code:	K1410700-026	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**410**	D	5.0	1.6	10	10/02/14	10/09/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	77	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-42	**Units:**	ug/L
Lab Code:	K1410700-027	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**6.5**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	78	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-43	**Units:**	ug/L
Lab Code:	K1410700-028	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	65	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-45	**Units:**	ug/L
Lab Code:	K1410700-029	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**21**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	59	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	FIELD BLANK RINSATE	**Units:**	ug/L
Lab Code:	K1410700-030	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	56	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Pentachlorophenol

Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	K1410700-031	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	**7.6**		0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	54	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Pentachlorophenol

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413595-4	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/09/14	KWG1413595	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	75	33-114	10/09/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Pentachlorophenol

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413617-4	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	0.16	1	10/02/14	10/08/14	KWG1413617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	66	33-114	10/08/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700

Surrogate Recovery Summary
Pentachlorophenol

Extraction Method: Method
Analysis Method: 8151M

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
HCMW-7	K1410700-001	95
MW-15	K1410700-002	136 *
MW-16	K1410700-003	92
MW-17	K1410700-004	87
MW-18	K1410700-005	82
MW-2	K1410700-006	85
MW-22	K1410700-007	90
MW-23	K1410700-008	88
MW-24	K1410700-009	93
MW-25	K1410700-010	92
MW-26	K1410700-011	93
MW-27	K1410700-012	85
MW-28	K1410700-013	109
MW-29	K1410700-014	84 D
MW-30	K1410700-015	85
MW-31	K1410700-016	80
MW-32	K1410700-017	83
MW-33	K1410700-018	77
MW-34	K1410700-019	82
MW-35	K1410700-020	77
MW-36	K1410700-021	97
MW-37	K1410700-022	97
MW-38	K1410700-023	53
MW-39	K1410700-024	82
MW-40	K1410700-025	72
MW-41	K1410700-026	77
MW-42	K1410700-027	78
MW-43	K1410700-028	65
MW-45	K1410700-029	59
FIELD BLANK RINSATE	K1410700-030	56
MW-3	K1410700-031	54
Method Blank	KWG1413595-4	75
Method Blank	KWG1413617-4	66
HCMW-7MS	KWG1413595-1	86

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromo-2,6-dichlorophenol 33-114

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700

Surrogate Recovery Summary
Pentachlorophenol

Extraction Method: Method
Analysis Method: 8151M

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
HCMW-7DMS	KWG1413595-2	92
MW-37MS	KWG1413617-1	51
MW-37DMS	KWG1413617-2	61
Lab Control Sample	KWG1413595-3	74
Lab Control Sample	KWG1413617-3	75

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromo-2,6-dichlorophenol 33-114

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Matrix Spike/Duplicate Matrix Spike Summary
Pentachlorophenol

Sample Name:	HCMW-7	**Units:**	ug/L
Lab Code:	K1410700-001	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413595

		HCMW-7MS KWG1413595-1 Matrix Spike			HCMW-7DMS KWG1413595-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Pentachlorophenol	ND	6.90	10.0	69	8.12	10.0	81	40-106	16	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Matrix Spike/Duplicate Matrix Spike Summary
Pentachlorophenol

Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	K1410700-022	**Basis:**	NA
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

		MW-37MS KWG1413617-1 Matrix Spike			MW-37DMS KWG1413617-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Pentachlorophenol	65	40.7	10.0	-247 #	50.4	10.0	-149 #	40-106	21	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Lab Control Spike Summary
Pentachlorophenol

Extraction Method:	Method	**Units:**	ug/L
Analysis Method:	8151M	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413595

	Lab Control Sample KWG1413595-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Pentachlorophenol	5.42	10.0	54	44-106

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014

Lab Control Spike Summary
Pentachlorophenol

Extraction Method:	Method Mod	**Units:**	ug/L
Analysis Method:	8151M	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413617

	Lab Control Sample KWG1413617-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Pentachlorophenol	6.36	10.0	64	44-106

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/09/2014
		Time Analyzed:	00:06

Method Blank Summary
Pentachlorophenol

Sample Name:	Method Blank	**Instrument ID:**	GC36
Lab Code:	KWG1413595-4	**File ID:**	J:\GC36\DATA\100814P\1008000085.D
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413595

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
HCMW-7	K1410700-001	J:\GC36\DATA\100814P\1008000058.D	10/08/14	18:36
HCMW-7MS	KWG1413595-1	J:\GC36\DATA\100814P\1008000059.D	10/08/14	18:48
HCMW-7DMS	KWG1413595-2	J:\GC36\DATA\100814P\1008000062.D	10/08/14	19:24
MW-15	K1410700-002	J:\GC36\DATA\100814P\1008000063.D	10/08/14	19:37
MW-16	K1410700-003	J:\GC36\DATA\100814P\1008000064.D	10/08/14	19:49
MW-17	K1410700-004	J:\GC36\DATA\100814P\1008000065.D	10/08/14	20:01
MW-18	K1410700-005	J:\GC36\DATA\100814P\1008000066.D	10/08/14	20:13
MW-2	K1410700-006	J:\GC36\DATA\100814P\1008000067.D	10/08/14	20:26
MW-22	K1410700-007	J:\GC36\DATA\100814P\1008000068.D	10/08/14	20:38
MW-23	K1410700-008	J:\GC36\DATA\100814P\1008000069.D	10/08/14	20:50
MW-24	K1410700-009	J:\GC36\DATA\100814P\1008000070.D	10/08/14	21:02
MW-25	K1410700-010	J:\GC36\DATA\100814P\1008000071.D	10/08/14	21:15
MW-26	K1410700-011	J:\GC36\DATA\100814P\1008000074.D	10/08/14	21:51
MW-27	K1410700-012	J:\GC36\DATA\100814P\1008000075.D	10/08/14	22:03
MW-28	K1410700-013	J:\GC36\DATA\100814P\1008000076.D	10/08/14	22:16
MW-30	K1410700-015	J:\GC36\DATA\100814P\1008000078.D	10/08/14	22:40
MW-31	K1410700-016	J:\GC36\DATA\100814P\1008000079.D	10/08/14	22:52
MW-32	K1410700-017	J:\GC36\DATA\100814P\1008000080.D	10/08/14	23:04
MW-33	K1410700-018	J:\GC36\DATA\100814P\1008000081.D	10/08/14	23:17
MW-34	K1410700-019	J:\GC36\DATA\100814P\1008000082.D	10/08/14	23:29
MW-35	K1410700-020	J:\GC36\DATA\100814P\1008000083.D	10/08/14	23:41
Lab Control Sample	KWG1413595-3	J:\GC36\DATA\100814P\1008000084.D	10/08/14	23:53
MW-23	K1410700-008	J:\GC36\DATA\100914P\1009000007.D	10/09/14	08:54
MW-24	K1410700-009	J:\GC36\DATA\100914P\1009000008.D	10/09/14	09:06
MW-25	K1410700-010	J:\GC36\DATA\100914P\1009000009.D	10/09/14	09:18
MW-29	K1410700-014	J:\GC36\DATA\100914P\1009000010.D	10/09/14	09:30
MW-32	K1410700-017	J:\GC36\DATA\100914P\1009000011.D	10/09/14	09:43
MW-34	K1410700-019	J:\GC36\DATA\100914P\1009000014.D	10/09/14	10:19

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014
		Time Analyzed:	18:23

Method Blank Summary
Pentachlorophenol

Sample Name:	Method Blank	**Instrument ID:**	GC36
Lab Code:	KWG1413617-4	**File ID:**	J:\GC36\DATA\100814P\1008000057.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
MW-36	K1410700-021	J:\GC36\DATA\100814P\1008000025.D	10/08/14	11:52
MW-37	K1410700-022	J:\GC36\DATA\100814P\1008000026.D	10/08/14	12:04
MW-37MS	KWG1413617-1	J:\GC36\DATA\100814P\1008000027.D	10/08/14	12:17
MW-37DMS	KWG1413617-2	J:\GC36\DATA\100814P\1008000028.D	10/08/14	12:29
MW-38	K1410700-023	J:\GC36\DATA\100814P\1008000029.D	10/08/14	12:41
MW-39	K1410700-024	J:\GC36\DATA\100814P\1008000048.D	10/08/14	16:33
MW-40	K1410700-025	J:\GC36\DATA\100814P\1008000049.D	10/08/14	16:46
MW-41	K1410700-026	J:\GC36\DATA\100814P\1008000050.D	10/08/14	16:58
MW-42	K1410700-027	J:\GC36\DATA\100814P\1008000051.D	10/08/14	17:10
MW-43	K1410700-028	J:\GC36\DATA\100814P\1008000052.D	10/08/14	17:22
MW-45	K1410700-029	J:\GC36\DATA\100814P\1008000053.D	10/08/14	17:35
FIELD BLANK RINSATE	K1410700-030	J:\GC36\DATA\100814P\1008000054.D	10/08/14	17:47
MW-3	K1410700-031	J:\GC36\DATA\100814P\1008000055.D	10/08/14	17:59
Lab Control Sample	KWG1413617-3	J:\GC36\DATA\100814P\1008000056.D	10/08/14	18:11
MW-40	K1410700-025	J:\GC36\DATA\100914P\1009000005.D	10/09/14	08:30
MW-41	K1410700-026	J:\GC36\DATA\100914P\1009000006.D	10/09/14	08:42

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014
		Time Analyzed:	23:53

Lab Control Sample Summary
Pentachlorophenol

Sample Name:	Lab Control Sample	**Instrument ID:**	GC36
Lab Code:	KWG1413595-3	**File ID:**	J:\GC36\DATA\100814P\1008000084.D
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413595

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
HCMW-7	K1410700-001	J:\GC36\DATA\100814P\1008000058.D	10/08/14	18:36
HCMW-7MS	KWG1413595-1	J:\GC36\DATA\100814P\1008000059.D	10/08/14	18:48
HCMW-7DMS	KWG1413595-2	J:\GC36\DATA\100814P\1008000062.D	10/08/14	19:24
MW-15	K1410700-002	J:\GC36\DATA\100814P\1008000063.D	10/08/14	19:37
MW-16	K1410700-003	J:\GC36\DATA\100814P\1008000064.D	10/08/14	19:49
MW-17	K1410700-004	J:\GC36\DATA\100814P\1008000065.D	10/08/14	20:01
MW-18	K1410700-005	J:\GC36\DATA\100814P\1008000066.D	10/08/14	20:13
MW-2	K1410700-006	J:\GC36\DATA\100814P\1008000067.D	10/08/14	20:26
MW-22	K1410700-007	J:\GC36\DATA\100814P\1008000068.D	10/08/14	20:38
MW-23	K1410700-008	J:\GC36\DATA\100814P\1008000069.D	10/08/14	20:50
MW-24	K1410700-009	J:\GC36\DATA\100814P\1008000070.D	10/08/14	21:02
MW-25	K1410700-010	J:\GC36\DATA\100814P\1008000071.D	10/08/14	21:15
MW-26	K1410700-011	J:\GC36\DATA\100814P\1008000074.D	10/08/14	21:51
MW-27	K1410700-012	J:\GC36\DATA\100814P\1008000075.D	10/08/14	22:03
MW-28	K1410700-013	J:\GC36\DATA\100814P\1008000076.D	10/08/14	22:16
MW-30	K1410700-015	J:\GC36\DATA\100814P\1008000078.D	10/08/14	22:40
MW-31	K1410700-016	J:\GC36\DATA\100814P\1008000079.D	10/08/14	22:52
MW-32	K1410700-017	J:\GC36\DATA\100814P\1008000080.D	10/08/14	23:04
MW-33	K1410700-018	J:\GC36\DATA\100814P\1008000081.D	10/08/14	23:17
MW-34	K1410700-019	J:\GC36\DATA\100814P\1008000082.D	10/08/14	23:29
MW-35	K1410700-020	J:\GC36\DATA\100814P\1008000083.D	10/08/14	23:41
Method Blank	KWG1413595-4	J:\GC36\DATA\100814P\1008000085.D	10/09/14	00:06
MW-23	K1410700-008	J:\GC36\DATA\100914P\1009000007.D	10/09/14	08:54
MW-24	K1410700-009	J:\GC36\DATA\100914P\1009000008.D	10/09/14	09:06
MW-25	K1410700-010	J:\GC36\DATA\100914P\1009000009.D	10/09/14	09:18
MW-29	K1410700-014	J:\GC36\DATA\100914P\1009000010.D	10/09/14	09:30
MW-32	K1410700-017	J:\GC36\DATA\100914P\1009000011.D	10/09/14	09:43
MW-34	K1410700-019	J:\GC36\DATA\100914P\1009000014.D	10/09/14	10:19

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/08/2014
		Time Analyzed:	18:11

Lab Control Sample Summary
Pentachlorophenol

Sample Name:	Lab Control Sample	**Instrument ID:**	GC36
Lab Code:	KWG1413617-3	**File ID:**	J:\GC36\DATA\100814P\1008000056.D
Extraction Method:	Method Mod	**Level:**	Low
Analysis Method:	8151M	**Extraction Lot:**	KWG1413617

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
MW-36	K1410700-021	J:\GC36\DATA\100814P\1008000025.D	10/08/14	11:52
MW-37	K1410700-022	J:\GC36\DATA\100814P\1008000026.D	10/08/14	12:04
MW-37MS	KWG1413617-1	J:\GC36\DATA\100814P\1008000027.D	10/08/14	12:17
MW-37DMS	KWG1413617-2	J:\GC36\DATA\100814P\1008000028.D	10/08/14	12:29
MW-38	K1410700-023	J:\GC36\DATA\100814P\1008000029.D	10/08/14	12:41
MW-39	K1410700-024	J:\GC36\DATA\100814P\1008000048.D	10/08/14	16:33
MW-40	K1410700-025	J:\GC36\DATA\100814P\1008000049.D	10/08/14	16:46
MW-41	K1410700-026	J:\GC36\DATA\100814P\1008000050.D	10/08/14	16:58
MW-42	K1410700-027	J:\GC36\DATA\100814P\1008000051.D	10/08/14	17:10
MW-43	K1410700-028	J:\GC36\DATA\100814P\1008000052.D	10/08/14	17:22
MW-45	K1410700-029	J:\GC36\DATA\100814P\1008000053.D	10/08/14	17:35
FIELD BLANK RINSATE	K1410700-030	J:\GC36\DATA\100814P\1008000054.D	10/08/14	17:47
MW-3	K1410700-031	J:\GC36\DATA\100814P\1008000055.D	10/08/14	17:59
Method Blank	KWG1413617-4	J:\GC36\DATA\100814P\1008000057.D	10/08/14	18:23
MW-40	K1410700-025	J:\GC36\DATA\100914P\1009000005.D	10/09/14	08:30
MW-41	K1410700-026	J:\GC36\DATA\100914P\1009000006.D	10/09/14	08:42

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D	G	J:\GC36\DATA\092914P\0929000011.D
B	J:\GC36\DATA\092914P\0929000006.D	H	J:\GC36\DATA\092914P\0929000012.D
C	J:\GC36\DATA\092914P\0929000007.D	I	J:\GC36\DATA\092914P\0929000013.D
D	J:\GC36\DATA\092914P\0929000008.D	J	J:\GC36\DATA\092914P\0929000014.D
E	J:\GC36\DATA\092914P\0929000009.D		
F	J:\GC36\DATA\092914P\0929000010.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Pentachlorophenol	A	2.4	5.79E+5	B	4.8	4.95E+5	C	0.95	5.97E+5	D	9.5	4.99E+5	E	24	4.23E+5
	F	48	4.12E+5	G	95	4.31E+5	H	240	4.15E+5	I	480	4.32E+5	J	950	4.17E+5
4-Bromo-2,6-dichlorophenol	A	2.5	2.82E+5	B	5.0	2.58E+5	C	1.0	2.61E+5	D	10	2.58E+5	E	25	2.40E+5
	F	50	2.49E+5	G	100	2.69E+5	H	250	2.67E+5	I	500	2.80E+5	J	1000	2.72E+5

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Pentachlorophenol	MS	Quadratic(0,0)	COD	0.995		≥0.99
4-Bromo-2,6-dichlorophenol	SURR	AverageRF	% RSD	5.0		≤20

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Calibration Date:**	09/29/2014
		Date Analyzed:	09/29/2014

Second Source Calibration Verification
Pentachlorophenol

Calibration Type:	External Standard	**Calibration ID:**	CAL13594
Analysis Method:	8151M	**Units:**	ug/L
File ID:	J:\GC36\DATA\092914P\0929000015.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	480	480	470000	443000	NA	1	± 20 %	Quadratic(0,0

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

Level ID	File ID	Level ID	File ID
A	J:\GC36\DATA\092914P\0929000005.D\0929000005c.d	G	J:\GC36\DATA\092914P\0929000011.D\0929000011c.d
B	J:\GC36\DATA\092914P\0929000006.D\0929000006c.d	H	J:\GC36\DATA\092914P\0929000012.D\0929000012c.d
C	J:\GC36\DATA\092914P\0929000007.D\0929000007c.d	I	J:\GC36\DATA\092914P\0929000013.D\0929000013c.d
D	J:\GC36\DATA\092914P\0929000008.D\0929000008c.d	J	J:\GC36\DATA\092914P\0929000014.D\0929000014c.d
E	J:\GC36\DATA\092914P\0929000009.D\0929000009c.d		
F	J:\GC36\DATA\092914P\0929000010.D\0929000010c.d		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Pentachlorophenol	A	2.4	1.10E+6	B	4.8	9.84E+5	C	0.95	1.12E+6	D	9.5	1.01E+6	E	24	9.41E+5
	F	48	9.55E+5	G	95	1.03E+6	H	240	1.03E+6	I	480	1.08E+6	J	950	1.06E+6
4-Bromo-2,6-dichlorophenol	A	2.5	4.62E+5	B	5.0	4.36E+5	C	1.0	4.16E+5	D	10	4.87E+5	E	25	5.11E+5
	F	50	5.68E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 09/29/2014

Initial Calibration Summary
Pentachlorophenol

Calibration ID: CAL13594
Instrument ID: GC36

Column: RTX-CLP2

Analyte Name	Compound Type	Calibration Evaluation					
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	
Pentachlorophenol	MS	AverageRF	% RSD	5.8		≤20	
4-Bromo-2,6-dichlorophenol	SURR	Quadratic	COD	1.000		≥0.99	

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 09/29/2014
Date Analyzed: 09/29/2014

Second Source Calibration Verification
Pentachlorophenol

Calibration Type: External Standard
Analysis Method: 8151M

Calibration ID: CAL13594
Units: ug/L

File ID: J:\GC36\DATA\092914P\0929000015.D\0929000015c.d

Column ID: RTX-CLP2

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	480	510	1030000	1110000	8	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000018.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	200	470000	392000	NA	-16	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	240	264000	253000	-4	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000018.D\1008000018C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	1030000	952000	-8	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	180	480000	619000	NA	-28 *	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000030.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	210	470000	421000	NA	-10	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	260	264000	275000	4	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000030.D\1008000030C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1030000	0	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	190	480000	679000	NA	-23 *	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000046.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	210	470000	417000	NA	-11	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	260	264000	277000	5	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000046.D\1008000046C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1030000	0	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	190	480000	684000	NA	-23 *	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000060.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	230	470000	454000	NA	-2	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	290	264000	303000	15	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000060.D\1008000060C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	260	1030000	1120000	9	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	210	480000	759000	NA	-17	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000072.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	470000	434000	NA	-7	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	270	264000	288000	9	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/08/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000072.D\1008000072C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	250	1030000	1080000	5	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	200	480000	724000	NA	-20	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000086.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	210	470000	416000	NA	-11	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	260	264000	278000	5	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413649
		Units:	ug/L
File ID:	J:\GC36\DATA\100814P\1008000086.D\1008000086C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	230	1030000	1020000	-1	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	200	480000	692000	NA	-22 *	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413697
		Units:	ug/L
File ID:	J:\GC36\DATA\100914P\1009000003.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	470000	423000	NA	-9	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	270	264000	283000	7	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413697
		Units:	ug/L
File ID:	J:\GC36\DATA\100914P\1009000003.D\1009000003C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	240	1030000	1040000	1	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	200	480000	712000	NA	-20	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413697
		Units:	ug/L
File ID:	J:\GC36\DATA\100914P\1009000015.D	**Column ID:**	RTX-CLP

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	220	470000	436000	NA	-6	± 20 %	Quadratic(0,0)
4-Bromo-2,6-dichlorophenol	250	280	264000	293000	11	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Analyzed:**	10/09/2014

Continuing Calibration Verification Summary
Pentachlorophenol

Calibration Type:	External Standard	**Calibration Date:**	09/29/2014
Analysis Method:	8151M	**Calibration ID:**	CAL13594
		Analysis Lot:	KWG1413697
		Units:	ug/L
File ID:	J:\GC36\DATA\100914P\1009000015.D\1009000015C.	**Column ID:**	RTX-CLP2

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Pentachlorophenol	240	250	1030000	1090000	6	NA	± 20 %	AverageRF
4-Bromo-2,6-dichlorophenol	250	210	480000	746000	NA	-18	± 20 %	Quadratic

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000003.D	Continuing Calibration Verification	KWG1413649-1	10/8/2014	07:22		10/8/2014	07:31
08000004.D	Instrument Blank	KWG1413649-2	10/8/2014	07:35		10/8/2014	07:43
08000018.D	Continuing Calibration Verification	KWG1413649-3	10/8/2014	10:27		10/8/2014	10:35
08000019.D	Instrument Blank	KWG1413649-4	10/8/2014	10:39		10/8/2014	10:48
08000020.D	ZZZZZZ	ZZZZZZ	10/8/2014	10:51		10/8/2014	11:00
08000021.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:03		10/8/2014	11:12
08000022.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:15		10/8/2014	11:24
08000023.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:28		10/8/2014	11:36
08000024.D	ZZZZZZ	ZZZZZZ	10/8/2014	11:40		10/8/2014	11:49
08000025.D	MW-36	K1410700-021	10/8/2014	11:52		10/8/2014	12:01
08000026.D	MW-37	K1410700-022	10/8/2014	12:04		10/8/2014	12:13
08000027.D	MW-37MS	KWG1413617-1	10/8/2014	12:17		10/8/2014	12:25
08000028.D	MW-37DMS	KWG1413617-2	10/8/2014	12:29		10/8/2014	12:38
08000029.D	MW-38	K1410700-023	10/8/2014	12:41		10/8/2014	12:50
08000030.D	Continuing Calibration Verification	KWG1413649-5	10/8/2014	12:53		10/8/2014	13:02
08000031.D	Instrument Blank	KWG1413649-6	10/8/2014	13:05		10/8/2014	13:14
08000032.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:18		10/8/2014	13:26
08000034.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:42		10/8/2014	13:51
08000035.D	ZZZZZZ	ZZZZZZ	10/8/2014	13:54		10/8/2014	14:03
08000036.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:07		10/8/2014	14:15
08000037.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:19		10/8/2014	14:28
08000038.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:31		10/8/2014	14:40
08000039.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:43		10/8/2014	14:52
08000040.D	ZZZZZZ	ZZZZZZ	10/8/2014	14:56		10/8/2014	15:04
08000041.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:08		10/8/2014	15:17
08000042.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:20		10/8/2014	15:29
08000043.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:32		10/8/2014	15:41
08000044.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:45		10/8/2014	15:53
08000045.D	ZZZZZZ	ZZZZZZ	10/8/2014	15:57		10/8/2014	16:06
08000046.D	Continuing Calibration Verification	KWG1413649-7	10/8/2014	16:09		10/8/2014	16:18
08000047.D	Instrument Blank	KWG1413649-8	10/8/2014	16:21		10/8/2014	16:30
08000048.D	MW-39	K1410700-024	10/8/2014	16:33		10/8/2014	16:42
08000049.D	MW-40	K1410700-025	10/8/2014	16:46		10/8/2014	16:54
08000050.D	MW-41	K1410700-026	10/8/2014	16:58		10/8/2014	17:07

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000051.D	MW-42	K1410700-027	10/8/2014	17:10		10/8/2014	17:19
08000052.D	MW-43	K1410700-028	10/8/2014	17:22		10/8/2014	17:31
08000053.D	MW-45	K1410700-029	10/8/2014	17:35		10/8/2014	17:43
08000054.D	FIELD BLANK RINSATE	K1410700-030	10/8/2014	17:47		10/8/2014	17:56
08000055.D	MW-3	K1410700-031	10/8/2014	17:59		10/8/2014	18:08
08000056.D	Lab Control Sample	KWG1413617-3	10/8/2014	18:11		10/8/2014	18:20
08000057.D	Method Blank	KWG1413617-4	10/8/2014	18:23		10/8/2014	18:32
08000058.D	HCMW-7	K1410700-001	10/8/2014	18:36		10/8/2014	18:44
08000059.D	HCMW-7MS	KWG1413595-1	10/8/2014	18:48		10/8/2014	18:57
08000060.D	Continuing Calibration Verification	KWG1413649-9	10/8/2014	19:00		10/8/2014	19:09
08000061.D	Instrument Blank	KWG1413649-10	10/8/2014	19:12		10/8/2014	19:21
08000062.D	HCMW-7DMS	KWG1413595-2	10/8/2014	19:24		10/8/2014	19:33
08000063.D	MW-15	K1410700-002	10/8/2014	19:37		10/8/2014	19:45
08000064.D	MW-16	K1410700-003	10/8/2014	19:49		10/8/2014	19:58
08000065.D	MW-17	K1410700-004	10/8/2014	20:01		10/8/2014	20:10
08000066.D	MW-18	K1410700-005	10/8/2014	20:13		10/8/2014	20:22
08000067.D	MW-2	K1410700-006	10/8/2014	20:26		10/8/2014	20:34
08000068.D	MW-22	K1410700-007	10/8/2014	20:38		10/8/2014	20:47
08000069.D	MW-23	K1410700-008	10/8/2014	20:50		10/8/2014	20:59
08000070.D	MW-24	K1410700-009	10/8/2014	21:02		10/8/2014	21:11
08000071.D	MW-25	K1410700-010	10/8/2014	21:15		10/8/2014	21:23
08000072.D	Continuing Calibration Verification	KWG1413649-11	10/8/2014	21:27		10/8/2014	21:36
08000073.D	Instrument Blank	KWG1413649-12	10/8/2014	21:39		10/8/2014	21:48
08000074.D	MW-26	K1410700-011	10/8/2014	21:51		10/8/2014	22:00
08000075.D	MW-27	K1410700-012	10/8/2014	22:03		10/8/2014	22:12
08000076.D	MW-28	K1410700-013	10/8/2014	22:16		10/8/2014	22:24
08000077.D	ZZZZZZ	ZZZZZZ	10/8/2014	22:28		10/8/2014	22:37
08000078.D	MW-30	K1410700-015	10/8/2014	22:40		10/8/2014	22:49
08000079.D	MW-31	K1410700-016	10/8/2014	22:52		10/8/2014	23:01
08000080.D	MW-32	K1410700-017	10/8/2014	23:04		10/8/2014	23:13
08000081.D	MW-33	K1410700-018	10/8/2014	23:17		10/8/2014	23:26
08000082.D	MW-34	K1410700-019	10/8/2014	23:29		10/8/2014	23:38
08000083.D	MW-35	K1410700-020	10/8/2014	23:41		10/8/2014	23:50
08000084.D	Lab Control Sample	KWG1413595-3	10/8/2014	23:53		10/9/2014	00:02

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413649
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
08000085.D	Method Blank	KWG1413595-4	10/9/2014	00:06		10/9/2014	00:14
08000086.D	Continuing Calibration Verification	KWG1413649-13	10/9/2014	00:18		10/9/2014	00:27
08000087.D	Instrument Blank	KWG1413649-14	10/9/2014	00:30		10/9/2014	00:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Pentachlorophenol

Analysis Method: 8151M

Analysis Lot: KWG1413697
Instrument ID: GC36
Column: RTX-CLP

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
09000003.D	Continuing Calibration Verification	KWG1413697-1	10/9/2014	08:05		10/9/2014	08:14
09000004.D	Instrument Blank	KWG1413697-2	10/9/2014	08:17		10/9/2014	08:26
09000005.D	MW-40	K1410700-025	10/9/2014	08:30		10/9/2014	08:38
09000006.D	MW-41	K1410700-026	10/9/2014	08:42		10/9/2014	08:51
09000007.D	MW-23	K1410700-008	10/9/2014	08:54		10/9/2014	09:03
09000008.D	MW-24	K1410700-009	10/9/2014	09:06		10/9/2014	09:15
09000009.D	MW-25	K1410700-010	10/9/2014	09:18		10/9/2014	09:27
09000010.D	MW-29	K1410700-014	10/9/2014	09:30		10/9/2014	09:39
09000011.D	MW-32	K1410700-017	10/9/2014	09:43		10/9/2014	09:51
09000013.D	ZZZZZZ	ZZZZZZ	10/9/2014	10:07		10/9/2014	10:16
09000014.D	MW-34	K1410700-019	10/9/2014	10:19		10/9/2014	10:28
09000015.D	Continuing Calibration Verification	KWG1413697-3	10/9/2014	10:32		10/9/2014	10:40
09000016.D	Instrument Blank	KWG1413697-4	10/9/2014	10:44		10/9/2014	10:53

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700
Date Extracted: 10/02/2014

Extraction Prep Log
Pentachlorophenol

Extraction Method: Method
Analysis Method: 8151M

Extraction Lot: KWG1413595
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
HCMW-7	K1410700-001	09/29/14	10/01/14	5mL	1mL	NA	
MW-15	K1410700-002	09/29/14	10/01/14	5mL	1mL	NA	
MW-16	K1410700-003	09/28/14	10/01/14	5mL	1mL	NA	
MW-17	K1410700-004	09/28/14	10/01/14	5mL	1mL	NA	
MW-18	K1410700-005	09/28/14	10/01/14	5mL	1mL	NA	
MW-2	K1410700-006	09/28/14	10/01/14	5mL	1mL	NA	
MW-22	K1410700-007	09/28/14	10/01/14	5mL	1mL	NA	
MW-23DL	K1410700-008	09/28/14	10/01/14	5mL	1mL	NA	
MW-23	K1410700-008	09/28/14	10/01/14	5mL	1mL	NA	
MW-24DL	K1410700-009	09/28/14	10/01/14	5mL	1mL	NA	
MW-24	K1410700-009	09/28/14	10/01/14	5mL	1mL	NA	
MW-25DL	K1410700-010	09/28/14	10/01/14	5mL	1mL	NA	
MW-25	K1410700-010	09/28/14	10/01/14	5mL	1mL	NA	
MW-26	K1410700-011	09/28/14	10/01/14	5mL	1mL	NA	
MW-27	K1410700-012	09/28/14	10/01/14	5mL	1mL	NA	
MW-28	K1410700-013	09/29/14	10/01/14	5mL	1mL	NA	
MW-29	K1410700-014	09/28/14	10/01/14	5mL	1mL	NA	
MW-30	K1410700-015	09/28/14	10/01/14	5mL	1mL	NA	
MW-31	K1410700-016	09/28/14	10/01/14	5mL	1mL	NA	
MW-32DL	K1410700-017	09/28/14	10/01/14	5mL	1mL	NA	
MW-32	K1410700-017	09/28/14	10/01/14	5mL	1mL	NA	
MW-33	K1410700-018	09/28/14	10/01/14	5mL	1mL	NA	
MW-34DL	K1410700-019	09/28/14	10/01/14	5mL	1mL	NA	
MW-34	K1410700-019	09/28/14	10/01/14	5mL	1mL	NA	
MW-35	K1410700-020	09/28/14	10/01/14	5mL	1mL	NA	
Method Blank	KWG1413595-4	NA	NA	5mL	1mL	NA	
HCMW-7MS	KWG1413595-1	09/29/14	10/01/14	5mL	1mL	NA	
HCMW-7DMS	KWG1413595-2	09/29/14	10/01/14	5mL	1mL	NA	
Lab Control Sample	KWG1413595-3	NA	NA	5mL	1mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700
Date Extracted: 10/02/2014

Extraction Prep Log
Pentachlorophenol

Extraction Method: Method
Analysis Method: 8151M

Extraction Lot: KWG1413617
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
MW-36	K1410700-021	09/29/14	10/01/14	5mL	1mL	NA	
MW-37	K1410700-022	09/29/14	10/01/14	5mL	1mL	NA	
MW-38	K1410700-023	09/28/14	10/01/14	5mL	1mL	NA	
MW-39	K1410700-024	09/29/14	10/01/14	5mL	1mL	NA	
MW-40DL	K1410700-025	09/29/14	10/01/14	5mL	1mL	NA	
MW-40	K1410700-025	09/29/14	10/01/14	5mL	1mL	NA	
MW-41	K1410700-026	09/29/14	10/01/14	5mL	1mL	NA	
MW-41DL	K1410700-026	09/29/14	10/01/14	5mL	1mL	NA	
MW-42	K1410700-027	09/29/14	10/01/14	5mL	1mL	NA	
MW-43	K1410700-028	09/29/14	10/01/14	5mL	1mL	NA	
MW-45	K1410700-029	09/28/14	10/01/14	5mL	1mL	NA	
FIELD BLANK RINSATE	K1410700-030	09/29/14	10/01/14	5mL	1mL	NA	
MW-3	K1410700-031	09/28/14	10/01/14	5mL	1mL	NA	
Method Blank	KWG1413617-4	NA	NA	5mL	1mL	NA	
MW-37MS	KWG1413617-1	09/29/14	10/01/14	5mL	1mL	NA	
MW-37DMS	KWG1413617-2	09/29/14	10/01/14	5mL	1mL	NA	
Lab Control Sample	KWG1413617-3	NA	NA	5mL	1mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-22	**Units:**	ug/L
Lab Code:	K1410700-007	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	140	150	6.9		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-23	**Units:**	ug/L
Lab Code:	K1410700-008	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	2.5	0.80	230	260	12.2	D	5	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-24	**Units:**	ug/L
Lab Code:	K1410700-009	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	2.5	0.80	280	320	13.3	D	5	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-25	**Units:**	ug/L
Lab Code:	K1410700-010	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	2.5	0.80	180	200	10.5	D	5	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-26	**Units:**	ug/L
Lab Code:	K1410700-011	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	0.22	0.49	76.1	JP	1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-28	**Units:**	ug/L
Lab Code:	K1410700-013	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	13	16	20.7		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-29	**Units:**	ug/L
Lab Code:	K1410700-014	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	2.5	0.80	170	200	16.2	D	5	10/09/14

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-31	**Units:**	ug/L
Lab Code:	K1410700-016	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	0.29	0.43	38.9	J	1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-32	**Units:**	ug/L
Lab Code:	K1410700-017	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	2.5	0.80	480	520	8.0	D	5	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-33	**Units:**	ug/L
Lab Code:	K1410700-018	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	23	26	12.2		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-34	**Units:**	ug/L
Lab Code:	K1410700-019	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	5.0	1.6	900	980	8.5	D	10	10/09/14

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-36	**Units:**	ug/L
Lab Code:	K1410700-021	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	120	130	8.0		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	K1410700-022	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	65	73	11.6		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-39	**Units:**	ug/L
Lab Code:	K1410700-024	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	120	120	0.0		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-40	**Units:**	ug/L
Lab Code:	K1410700-025	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	5.0	1.6	290	320	9.8	D	10	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-41	**Units:**	ug/L
Lab Code:	K1410700-026	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	5.0	1.6	410	460	11.5	D	10	10/09/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-42	**Units:**	ug/L
Lab Code:	K1410700-027	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	6.5	7.5	14.3		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-45	**Units:**	ug/L
Lab Code:	K1410700-029	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	21	25	17.4		1	10/08/14

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014
		Date Extracted:	10/02/2014

Pentachlorophenol

Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	K1410700-031	**Basis:**	NA
Extraction Method:	Method	**Level:**	Low
Analysis Method:	8151M		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Pentachlorophenol	0.50	0.16	7.6	8.8	14.6		1	10/08/14

ALS Environmental

Polynuclear Aromatic Hydrocarbons

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Cover Page - Organic Analysis Data Package
Polynuclear Aromatic Hydrocarbons

Sample Name	Lab Code	Date Collected	Date Received
MW-15	K1410700-002	09/29/2014	10/01/2014
MW-16	K1410700-003	09/28/2014	10/01/2014
MW-17	K1410700-004	09/28/2014	10/01/2014
MW-18	K1410700-005	09/28/2014	10/01/2014
MW-2	K1410700-006	09/28/2014	10/01/2014
MW-30	K1410700-015	09/28/2014	10/01/2014
MW-35	K1410700-020	09/28/2014	10/01/2014
MW-36	K1410700-021	09/29/2014	10/01/2014
MW-37	K1410700-022	09/29/2014	10/01/2014
FIELD BLANK RINSATE	K1410700-030	09/29/2014	10/01/2014
MW-3	K1410700-031	09/28/2014	10/01/2014

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	K1410700-002	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.020**		0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	93	46-114	10/15/14	Acceptable
Fluoranthene-d10	93	51-121	10/15/14	Acceptable
Terphenyl-d14	79	58-140	10/15/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	K1410700-003	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.017**	J	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.019	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.019	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.019	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.019	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.019	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	**0.0028**	J	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	91	46-114	10/13/14	Acceptable
Fluoranthene-d10	89	51-121	10/13/14	Acceptable
Terphenyl-d14	78	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-17	**Units:**	ug/L
Lab Code:	K1410700-004	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.021**		0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.020	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.020	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.020	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.020	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.020	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.020	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	ND	U	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	91	46-114	10/13/14	Acceptable
Fluoranthene-d10	88	51-121	10/13/14	Acceptable
Terphenyl-d14	78	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-18	**Units:**	ug/L
Lab Code:	K1410700-005	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.015**	J	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.019	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.019	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.019	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.019	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.019	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	91	46-114	10/13/14	Acceptable
Fluoranthene-d10	90	51-121	10/13/14	Acceptable
Terphenyl-d14	79	58-140	10/13/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	K1410700-006	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.018**	J	0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.020	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.020	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.020	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.020	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.020	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.020	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	**0.0026**	J	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	88	46-114	10/13/14	Acceptable
Fluoranthene-d10	87	51-121	10/13/14	Acceptable
Terphenyl-d14	75	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-30	**Units:**	ug/L
Lab Code:	K1410700-015	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.020**		0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	**0.011**	J	0.019	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.019	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	**0.0075**	J	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	**0.0075**	J	0.019	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.019	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.019	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.019	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	91	46-114	10/13/14	Acceptable
Fluoranthene-d10	89	51-121	10/13/14	Acceptable
Terphenyl-d14	77	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-35	**Units:**	ug/L
Lab Code:	K1410700-020	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.025**		0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.019	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.019	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.019	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.019	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.019	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	94	46-114	10/13/14	Acceptable
Fluoranthene-d10	93	51-121	10/13/14	Acceptable
Terphenyl-d14	81	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-36	**Units:**	ug/L
Lab Code:	K1410700-021	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.016**	J	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	96	46-114	10/15/14	Acceptable
Fluoranthene-d10	94	51-121	10/15/14	Acceptable
Terphenyl-d14	79	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-37	**Units:**	ug/L
Lab Code:	K1410700-022	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.020**		0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	96	46-114	10/15/14	Acceptable
Fluoranthene-d10	96	51-121	10/15/14	Acceptable
Terphenyl-d14	82	58-140	10/15/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/29/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	FIELD BLANK RINSATE	**Units:**	ug/L
Lab Code:	K1410700-030	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.041**		0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	92	46-114	10/15/14	Acceptable
Fluoranthene-d10	94	51-121	10/15/14	Acceptable
Terphenyl-d14	77	58-140	10/15/14	Acceptable

Comments:

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	09/28/2014
Sample Matrix:	Water	**Date Received:**	10/01/2014

Polynuclear Aromatic Hydrocarbons

Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	K1410700-031	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	**0.017**	J	0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	**0.0032**	J	0.020	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.020	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.020	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.020	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.020	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.020	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.020	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	**0.0032**	J	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.020	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.020	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.020	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.020	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.020	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.020	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.020	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	93	46-114	10/13/14	Acceptable
Fluoranthene-d10	91	51-121	10/13/14	Acceptable
Terphenyl-d14	79	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413420-3	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/02/14	10/13/14	KWG1413420	
Acenaphthylene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Acenaphthene	ND	U	0.019	0.0044	1	10/02/14	10/13/14	KWG1413420	
Fluorene	ND	U	0.019	0.0038	1	10/02/14	10/13/14	KWG1413420	
Phenanthrene	ND	U	0.019	0.0050	1	10/02/14	10/13/14	KWG1413420	
Anthracene	ND	U	0.019	0.0036	1	10/02/14	10/13/14	KWG1413420	
Fluoranthene	ND	U	0.019	0.010	1	10/02/14	10/13/14	KWG1413420	
Pyrene	ND	U	0.019	0.0053	1	10/02/14	10/13/14	KWG1413420	
Benz(a)anthracene	**0.0027**	J	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Chrysene	ND	U	0.019	0.0034	1	10/02/14	10/13/14	KWG1413420	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/02/14	10/13/14	KWG1413420	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/02/14	10/13/14	KWG1413420	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/02/14	10/13/14	KWG1413420	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/02/14	10/13/14	KWG1413420	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/02/14	10/13/14	KWG1413420	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/02/14	10/13/14	KWG1413420	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	88	46-114	10/13/14	Acceptable
Fluoranthene-d10	89	51-121	10/13/14	Acceptable
Terphenyl-d14	77	58-140	10/13/14	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1413493-3	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Naphthalene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
2-Methylnaphthalene	ND	U	0.019	0.0023	1	10/06/14	10/15/14	KWG1413493	
Acenaphthylene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Acenaphthene	ND	U	0.019	0.0044	1	10/06/14	10/15/14	KWG1413493	
Fluorene	ND	U	0.019	0.0038	1	10/06/14	10/15/14	KWG1413493	
Phenanthrene	ND	U	0.019	0.0050	1	10/06/14	10/15/14	KWG1413493	
Anthracene	ND	U	0.019	0.0036	1	10/06/14	10/15/14	KWG1413493	
Fluoranthene	ND	U	0.019	0.010	1	10/06/14	10/15/14	KWG1413493	
Pyrene	ND	U	0.019	0.0053	1	10/06/14	10/15/14	KWG1413493	
Benz(a)anthracene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Chrysene	ND	U	0.019	0.0034	1	10/06/14	10/15/14	KWG1413493	
Benzo(b)fluoranthene	ND	U	0.019	0.0041	1	10/06/14	10/15/14	KWG1413493	
Benzo(k)fluoranthene	ND	U	0.019	0.0030	1	10/06/14	10/15/14	KWG1413493	
Benzo(a)pyrene	ND	U	0.019	0.0043	1	10/06/14	10/15/14	KWG1413493	
Indeno(1,2,3-cd)pyrene	ND	U	0.019	0.0026	1	10/06/14	10/15/14	KWG1413493	
Dibenz(a,h)anthracene	ND	U	0.019	0.0025	1	10/06/14	10/15/14	KWG1413493	
Benzo(g,h,i)perylene	ND	U	0.019	0.0029	1	10/06/14	10/15/14	KWG1413493	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Fluorene-d10	96	46-114	10/15/14	Acceptable
Fluoranthene-d10	96	51-121	10/15/14	Acceptable
Terphenyl-d14	80	58-140	10/15/14	Acceptable

Comments:

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
MW-15	K1410700-002	93	93	79
MW-16	K1410700-003	91	89	78
MW-17	K1410700-004	91	88	78
MW-18	K1410700-005	91	90	79
MW-2	K1410700-006	88	87	75
MW-30	K1410700-015	91	89	77
MW-35	K1410700-020	94	93	81
MW-36	K1410700-021	96	94	79
MW-37	K1410700-022	96	96	82
FIELD BLANK RINSATE	K1410700-030	92	94	77
MW-3	K1410700-031	93	91	79
Method Blank	KWG1413420-3	88	89	77
Method Blank	KWG1413493-3	96	96	80
Lab Control Sample	KWG1413420-1	91	93	78
Duplicate Lab Control Sample	KWG1413420-2	91	93	77
Lab Control Sample	KWG1413493-1	89	92	77
Duplicate Lab Control Sample	KWG1413493-2	100	103	85

Surrogate Recovery Control Limits (%)

Sur1 =	Fluorene-d10	46-114
Sur2 =	Fluoranthene-d10	51-121
Sur3 =	Terphenyl-d14	58-140

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/13/2014
Time Analyzed: 19:02

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101314\1013F028.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1413983-2
Analysis Lot: KWG1413983

		Naphthalene-d8		Acenaphthene-d10		Phenanthrene-d10	
		Area	RT	Area	RT	Area	RT
	Results ==>	127,594	4.64	67,408	6.28	133,420	7.53
	Upper Limit ==>	255,188	5.14	134,816	6.78	266,840	8.03
	Lower Limit ==>	63,797	4.14	33,704	5.78	66,710	7.03
	ICAL Result ==>	131,378	4.69	71,629	6.31	141,192	7.56
Associated Analyses							
Method Blank	KWG1413420-3	130,665	4.64	69,902	6.28	136,844	7.53
Lab Control Sample	KWG1413420-1	130,734	4.63	65,319	6.28	133,412	7.52
Duplicate Lab Control Sample	KWG1413420-2	132,128	4.63	67,785	6.27	133,992	7.53
MW-16	K1410700-003	142,600	4.63	75,279	6.28	148,752	7.52
MW-17	K1410700-004	143,519	4.63	75,419	6.27	150,916	7.52
MW-18	K1410700-005	146,314	4.63	75,762	6.27	147,701	7.53
MW-2	K1410700-006	149,562	4.63	77,078	6.27	152,050	7.52
MW-30	K1410700-015	142,585	4.64	75,966	6.27	147,793	7.52
MW-35	K1410700-020	140,936	4.63	74,564	6.27	147,958	7.52
MW-3	K1410700-031	139,161	4.63	74,275	6.27	138,885	7.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/13/2014
Time Analyzed: 19:02

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101314\1013F028.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1413983-2
Analysis Lot: KWG1413983

		Chrysene-d12		Perylene-d12	
		Area	RT	Area	RT
	Results ==>	127,844	10.06	124,161	13.20
	Upper Limit ==>	255,688	10.56	248,322	13.70
	Lower Limit ==>	63,922	9.56	62,081	12.70
	ICAL Result ==>	143,575	10.11	157,982	13.25
Associated Analyses					
Method Blank	KWG1413420-3	129,174	10.06	123,124	13.20
Lab Control Sample	KWG1413420-1	128,948	10.06	123,398	13.20
Duplicate Lab Control Sample	KWG1413420-2	129,602	10.06	122,909	13.20
MW-16	K1410700-003	135,580	10.06	126,903	13.19
MW-17	K1410700-004	136,254	10.06	129,713	13.19
MW-18	K1410700-005	136,469	10.06	126,222	13.19
MW-2	K1410700-006	138,389	10.06	131,914	13.19
MW-30	K1410700-015	136,315	10.06	128,443	13.19
MW-35	K1410700-020	135,351	10.06	127,950	13.19
MW-3	K1410700-031	131,466	10.06	127,784	13.19

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/15/2014
Time Analyzed: 13:17

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F006.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1414042-2
Analysis Lot: KWG1414042

		Naphthalene-d8		Acenaphthene-d10		Phenanthrene-d10	
		Area	RT	Area	RT	Area	RT
	Results ==>	158,293	4.64	75,872	6.27	142,971	7.52
	Upper Limit ==>	316,586	5.14	151,744	6.77	285,942	8.02
	Lower Limit ==>	79,147	4.14	37,936	5.77	71,486	7.02
	ICAL Result ==>	131,378	4.69	71,629	6.31	141,192	7.56
Associated Analyses							
Method Blank	KWG1413493-3	136,136	4.64	69,670	6.27	137,978	7.52
Lab Control Sample	KWG1413493-1	136,654	4.64	68,616	6.27	130,647	7.52
Duplicate Lab Control Sample	KWG1413493-2	137,594	4.64	68,307	6.27	130,836	7.52
MW-15	K1410700-002	136,922	4.64	73,236	6.27	135,251	7.52
MW-36	K1410700-021	133,870	4.64	68,241	6.27	125,627	7.52
MW-37	K1410700-022	131,103	4.64	68,892	6.26	125,190	7.52
FIELD BLANK RINSATE	K1410700-030	137,815	4.64	72,547	6.26	135,972	7.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/15/2014
Time Analyzed: 13:17

Internal Standard Area and RT Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F006.D
Instrument ID: MS14
Analysis Method: 8270D SIM

Lab Code: KWG1414042-2
Analysis Lot: KWG1414042

		Chrysene-d12		Perylene-d12	
		Area	RT	Area	RT
	Results ==>	136,564	10.05	128,789	13.18
	Upper Limit ==>	273,128	10.55	257,578	13.68
	Lower Limit ==>	68,282	9.55	64,395	12.68
	ICAL Result ==>	143,575	10.11	157,982	13.25
Associated Analyses					
Method Blank	KWG1413493-3	131,178	10.05	126,701	13.17
Lab Control Sample	KWG1413493-1	125,566	10.04	119,861	13.16
Duplicate Lab Control Sample	KWG1413493-2	126,170	10.04	122,171	13.16
MW-15	K1410700-002	130,207	10.04	129,271	13.16
MW-36	K1410700-021	125,090	10.05	126,715	13.16
MW-37	K1410700-022	122,047	10.04	122,206	13.16
FIELD BLANK RINSATE	K1410700-030	134,032	10.04	127,694	13.16

Results flagged with an asterisk (*) indicate values outside control criteria.

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/13/2014

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3520C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413420

	Lab Control Sample KWG1413420-1 Lab Control Spike			Duplicate Lab Control Sample KWG1413420-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	2.00	2.50	80	2.31	2.50	92	39-110	14	30
2-Methylnaphthalene	1.93	2.50	77	2.31	2.50	93	39-115	18	30
Acenaphthylene	2.30	2.50	92	2.47	2.50	99	44-115	7	30
Acenaphthene	2.34	2.50	94	2.56	2.50	103	44-113	9	30
Fluorene	2.45	2.50	98	2.57	2.50	103	48-118	5	30
Phenanthrene	2.54	2.50	102	2.61	2.50	105	47-120	3	30
Anthracene	2.50	2.50	100	2.58	2.50	103	44-117	3	30
Fluoranthene	2.52	2.50	101	2.57	2.50	103	48-128	2	30
Pyrene	2.60	2.50	104	2.64	2.50	105	42-133	1	30
Benz(a)anthracene	2.62	2.50	105	2.65	2.50	106	48-125	1	30
Chrysene	2.79	2.50	112	2.84	2.50	113	50-128	2	30
Benzo(b)fluoranthene	2.93	2.50	117	3.02	2.50	121	49-131	3	30
Benzo(k)fluoranthene	2.86	2.50	115	2.94	2.50	117	54-131	2	30
Benzo(a)pyrene	2.66	2.50	106	2.71	2.50	109	43-134	2	30
Indeno(1,2,3-cd)pyrene	2.30	2.50	92	2.44	2.50	98	45-133	6	30
Dibenz(a,h)anthracene	2.30	2.50	92	2.38	2.50	95	49-133	4	30
Benzo(g,h,i)perylene	2.31	2.50	92	2.39	2.50	96	51-124	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/15/2014

Lab Control Spike/Duplicate Lab Control Spike Summary
Polynuclear Aromatic Hydrocarbons

Extraction Method:	EPA 3520C	**Units:**	ug/L
Analysis Method:	8270D SIM	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1413493

	Lab Control Sample KWG1413493-1 Lab Control Spike			Duplicate Lab Control Sample KWG1413493-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Naphthalene	1.98	2.50	79	2.19	2.50	88	39-110	10	30
2-Methylnaphthalene	1.90	2.50	76	2.10	2.50	84	39-115	10	30
Acenaphthylene	2.12	2.50	85	2.35	2.50	94	44-115	10	30
Acenaphthene	2.31	2.50	92	2.56	2.50	102	44-113	10	30
Fluorene	2.40	2.50	96	2.62	2.50	105	48-118	9	30
Phenanthrene	2.53	2.50	101	2.78	2.50	111	47-120	9	30
Anthracene	2.52	2.50	101	2.77	2.50	111	44-117	10	30
Fluoranthene	2.47	2.50	99	2.70	2.50	108	48-128	9	30
Pyrene	2.56	2.50	103	2.76	2.50	110	42-133	7	30
Benz(a)anthracene	2.64	2.50	106	2.86	2.50	115	48-125	8	30
Chrysene	2.83	2.50	113	3.05	2.50	122	50-128	7	30
Benzo(b)fluoranthene	2.98	2.50	119	3.18	2.50	127	49-131	7	30
Benzo(k)fluoranthene	2.92	2.50	117	3.15	2.50	126	54-131	8	30
Benzo(a)pyrene	2.70	2.50	108	2.93	2.50	117	43-134	8	30
Indeno(1,2,3-cd)pyrene	2.21	2.50	88	2.45	2.50	98	45-133	10	30
Dibenz(a,h)anthracene	2.43	2.50	97	2.60	2.50	104	49-133	7	30
Benzo(g,h,i)perylene	2.37	2.50	95	2.53	2.50	101	51-124	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/13/2014
		Time Analyzed:	19:26

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Instrument ID:**	MS14
Lab Code:	KWG1413420-3	**File ID:**	J:\MS14\DATA\101314\1013F029.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413420

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1413420-1	J:\MS14\DATA\101314\1013F030.D	10/13/14	19:47
Duplicate Lab Control Sample	KWG1413420-2	J:\MS14\DATA\101314\1013F031.D	10/13/14	20:10
MW-16	K1410700-003	J:\MS14\DATA\101314\1013F034.D	10/13/14	21:15
MW-17	K1410700-004	J:\MS14\DATA\101314\1013F035.D	10/13/14	21:37
MW-18	K1410700-005	J:\MS14\DATA\101314\1013F036.D	10/13/14	21:59
MW-2	K1410700-006	J:\MS14\DATA\101314\1013F037.D	10/13/14	22:21
MW-30	K1410700-015	J:\MS14\DATA\101314\1013F038.D	10/13/14	22:43
MW-35	K1410700-020	J:\MS14\DATA\101314\1013F039.D	10/13/14	23:05
MW-3	K1410700-031	J:\MS14\DATA\101314\1013F040.D	10/13/14	23:27

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/15/2014
		Time Analyzed:	14:25

Method Blank Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Method Blank	**Instrument ID:**	MS14
Lab Code:	KWG1413493-3	**File ID:**	J:\MS14\DATA\101514\1015F009.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413493

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1413493-1	J:\MS14\DATA\101514\1015F016.D	10/15/14	17:03
Duplicate Lab Control Sample	KWG1413493-2	J:\MS14\DATA\101514\1015F017.D	10/15/14	17:25
MW-15	K1410700-002	J:\MS14\DATA\101514\1015F023.D	10/15/14	19:41
MW-36	K1410700-021	J:\MS14\DATA\101514\1015F024.D	10/15/14	20:03
MW-37	K1410700-022	J:\MS14\DATA\101514\1015F025.D	10/15/14	20:26
FIELD BLANK RINSATE	K1410700-030	J:\MS14\DATA\101514\1015F026.D	10/15/14	20:48

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/02/2014
Sample Matrix:	Water	**Date Analyzed:**	10/13/2014
		Time Analyzed:	19:47

Lab Control Sample Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Lab Control Sample	**Instrument ID:**	MS14
Lab Code:	KWG1413420-1	**File ID:**	J:\MS14\DATA\101314\1013F030.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413420

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1413420-3	J:\MS14\DATA\101314\1013F029.D	10/13/14	19:26
MW-16	K1410700-003	J:\MS14\DATA\101314\1013F034.D	10/13/14	21:15
MW-17	K1410700-004	J:\MS14\DATA\101314\1013F035.D	10/13/14	21:37
MW-18	K1410700-005	J:\MS14\DATA\101314\1013F036.D	10/13/14	21:59
MW-2	K1410700-006	J:\MS14\DATA\101314\1013F037.D	10/13/14	22:21
MW-30	K1410700-015	J:\MS14\DATA\101314\1013F038.D	10/13/14	22:43
MW-35	K1410700-020	J:\MS14\DATA\101314\1013F039.D	10/13/14	23:05
MW-3	K1410700-031	J:\MS14\DATA\101314\1013F040.D	10/13/14	23:27

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	JH Baxter & Company	**Service Request:**	K1410700
Project:	JH Baxter - Arlington	**Date Extracted:**	10/06/2014
Sample Matrix:	Water	**Date Analyzed:**	10/15/2014
		Time Analyzed:	17:03

Lab Control Sample Summary
Polynuclear Aromatic Hydrocarbons

Sample Name:	Lab Control Sample	**Instrument ID:**	MS14
Lab Code:	KWG1413493-1	**File ID:**	J:\MS14\DATA\101514\1015F016.D
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	8270D SIM	**Extraction Lot:**	KWG1413493

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1413493-3	J:\MS14\DATA\101514\1015F009.D	10/15/14	14:25
MW-15	K1410700-002	J:\MS14\DATA\101514\1015F023.D	10/15/14	19:41
MW-36	K1410700-021	J:\MS14\DATA\101514\1015F024.D	10/15/14	20:03
MW-37	K1410700-022	J:\MS14\DATA\101514\1015F025.D	10/15/14	20:26
FIELD BLANK RINSATE	K1410700-030	J:\MS14\DATA\101514\1015F026.D	10/15/14	20:48

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/13/2014
Time Analyzed: 18:37

Tune Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101314\1013F027.D
Instrument ID: MS14
Column:

Analysis Method: 8270D SIM
Analysis Lot: KWG1413983

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	48.2	19170	PASS
68	69	0	2	1.7	320	PASS
69	198	0	100	46.9	18653	PASS
70	69	0	2	0.0	0	PASS
127	198	10	80	51.5	20480	PASS
197	198	0	2	0.0	0	PASS
198	442	30	100	58.2	39786	PASS
199	198	5	9	6.9	2744	PASS
275	198	10	60	31.2	12408	PASS
365	442	1	50	3.5	2374	PASS
441	443	0	100	66.4	9207	PASS
442	442	100	100	100.0	68304	PASS
443	442	15	24	20.3	13860	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1413983-2	J:\MS14\DATA\101314\1013F028.D	10/13/2014	19:02	
Method Blank	KWG1413420-3	J:\MS14\DATA\101314\1013F029.D	10/13/2014	19:26	
Lab Control Sample	KWG1413420-1	J:\MS14\DATA\101314\1013F030.D	10/13/2014	19:47	
Duplicate Lab Control Sample	KWG1413420-2	J:\MS14\DATA\101314\1013F031.D	10/13/2014	20:10	
MW-16	K1410700-003	J:\MS14\DATA\101314\1013F034.D	10/13/2014	21:15	
MW-17	K1410700-004	J:\MS14\DATA\101314\1013F035.D	10/13/2014	21:37	
MW-18	K1410700-005	J:\MS14\DATA\101314\1013F036.D	10/13/2014	21:59	
MW-2	K1410700-006	J:\MS14\DATA\101314\1013F037.D	10/13/2014	22:21	
MW-30	K1410700-015	J:\MS14\DATA\101314\1013F038.D	10/13/2014	22:43	
MW-35	K1410700-020	J:\MS14\DATA\101314\1013F039.D	10/13/2014	23:05	
MW-3	K1410700-031	J:\MS14\DATA\101314\1013F040.D	10/13/2014	23:27	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/15/2014
Time Analyzed: 11:47

Tune Summary
Polynuclear Aromatic Hydrocarbons

File ID: J:\MS14\DATA\101514\1015F005.D
Instrument ID: MS14
Column:

Analysis Method: 8270D SIM
Analysis Lot: KWG1414042

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	43.4	26018	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	49.2	29448	PASS
70	69	0	2	1.0	308	PASS
127	198	10	80	50.8	30418	PASS
197	198	0	2	0.0	0	PASS
198	442	30	100	62.8	59906	PASS
199	198	5	9	7.3	4356	PASS
275	198	10	60	33.9	20337	PASS
365	442	1	50	3.5	3374	PASS
441	443	0	100	73.7	14366	PASS
442	442	100	100	100.0	95450	PASS
443	442	15	24	20.4	19480	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	KWG1414042-2	J:\MS14\DATA\101514\1015F006.D	10/15/2014	13:17	
Method Blank	KWG1413493-3	J:\MS14\DATA\101514\1015F009.D	10/15/2014	14:25	
Lab Control Sample	KWG1413493-1	J:\MS14\DATA\101514\1015F016.D	10/15/2014	17:03	
Duplicate Lab Control Sample	KWG1413493-2	J:\MS14\DATA\101514\1015F017.D	10/15/2014	17:25	
MW-15	K1410700-002	J:\MS14\DATA\101514\1015F023.D	10/15/2014	19:41	
MW-36	K1410700-021	J:\MS14\DATA\101514\1015F024.D	10/15/2014	20:03	
MW-37	K1410700-022	J:\MS14\DATA\101514\1015F025.D	10/15/2014	20:26	
FIELD BLANK RINSATE	K1410700-030	J:\MS14\DATA\101514\1015F026.D	10/15/2014	20:48	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS14\DATA\072214\0722F007.D	G	J:\MS14\DATA\072214\0722F013.D
B	J:\MS14\DATA\072214\0722F008.D	H	J:\MS14\DATA\072314\0723F002.D
C	J:\MS14\DATA\072214\0722F009.D	I	J:\MS14\DATA\072314\0723F003.D
D	J:\MS14\DATA\072214\0722F010.D	J	J:\MS14\DATA\072314\0723F004.D
E	J:\MS14\DATA\072214\0722F011.D		
F	J:\MS14\DATA\072214\0722F012.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Naphthalene	A	20	1.11	B	100	1.07	C	200	1.11	D	400	1.08	E	1000	1.05
	F	1600	0.992	G	2000	0.997	H	2.0	1.07	I	4.0	1.10	J	8.0	1.03
2-Methylnaphthalene	A	20	0.792	B	100	0.758	C	200	0.783	D	400	0.749	E	1000	0.717
	F	1600	0.667	G	2000	0.669	H	2.0	0.767	I	4.0	0.775	J	8.0	0.734
Acenaphthylene	A	20	2.13	B	100	2.09	C	200	2.18	D	400	2.10	E	1000	2.00
	F	1600	1.85	G	2000	1.83	H	2.0	1.98	I	4.0	2.06	J	8.0	1.94
Acenaphthene	A	20	1.23	B	100	1.20	C	200	1.25	D	400	1.18	E	1000	1.14
	F	1600	1.06	G	2000	1.05	H	2.0	1.17	I	4.0	1.23	J	8.0	1.15
Fluorene	A	20	1.55	B	100	1.51	C	200	1.55	D	400	1.47	E	1000	1.40
	F	1600	1.29	G	2000	1.27	H	2.0	1.51	I	4.0	1.55	J	8.0	1.47
Phenanthrene	A	20	1.17	B	100	1.12	C	200	1.17	D	400	1.11	E	1000	1.07
	F	1600	0.970	G	2000	0.971	H	2.0	1.20	I	4.0	1.17	J	8.0	1.10
Anthracene	A	20	1.15	B	100	1.12	C	200	1.18	D	400	1.11	E	1000	1.07
	F	1600	0.977	G	2000	0.980	H	2.0	1.10	I	4.0	1.14	J	8.0	1.11
Fluoranthene	A	20	1.40	B	100	1.36	C	200	1.41	D	400	1.31	E	1000	1.24
	F	1600	1.12	G	2000	1.11	H	2.0	1.31	I	4.0	1.34	J	8.0	1.27
Pyrene	A	20	1.44	B	100	1.39	C	200	1.44	D	400	1.39	E	1000	1.36
	F	1600	1.28	G	2000	1.30	H	2.0	1.38	I	4.0	1.43	J	8.0	1.40
Benz(a)anthracene	A	20	1.20	B	100	1.17	C	200	1.24	D	400	1.22	E	1000	1.23
	F	1600	1.18	G	2000	1.21	H	2.0	1.40	I	4.0	1.27	J	8.0	1.14
Chrysene	A	20	1.08	B	100	1.06	C	200	1.12	D	400	1.09	E	1000	1.11
	F	1600	1.07	G	2000	1.09	H	2.0	1.15	I	4.0	1.09	J	8.0	1.03
Benzo(b)fluoranthene	A	20	1.25	B	100	1.23	C	200	1.32	D	400	1.26	E	1000	1.26
	F	1600	1.20	G	2000	1.23	H	2.0	1.19	I	4.0	1.19	J	8.0	1.15
Benzo(k)fluoranthene	A	20	1.24	B	100	1.22	C	200	1.27	D	400	1.22	E	1000	1.21
	F	1600	1.16	G	2000	1.18	H	2.0	1.42	I	4.0	1.18	J	8.0	1.11
Benzo(a)pyrene	A	20	1.39	B	100	1.18	C	200	1.22	D	400	1.17	E	1000	1.17
	F	1600	1.13	G	2000	1.15	H	2.0	1.24	I	4.0	1.11	J	8.0	1.04

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Indeno(1,2,3-cd)pyrene	A	20	1.37	B	100	1.30	C	200	1.42	D	400	1.36	E	1000	1.33
	F	1600	1.26	G	2000	1.28	H	2.0	1.31	I	4.0	1.32	J	8.0	1.23
Dibenz(a,h)anthracene	A	20	1.32	B	100	1.32	C	200	1.38	D	400	1.33	E	1000	1.31
	F	1600	1.23	G	2000	1.24	H	2.0	1.12	I	4.0	1.25	J	8.0	1.13
Benzo(g,h,i)perylene	A	20	1.54	B	100	1.47	C	200	1.51	D	400	1.43	E	1000	1.37
	F	1600	1.29	G	2000	1.30	H	2.0	1.46	I	4.0	1.55	J	8.0	1.43
Fluorene-d10	A	20	1.22	B	100	1.18	C	200	1.22	D	400	1.17	E	1000	1.13
	F	1600	1.04	G	2000	1.04	H	2.0	1.33	I	4.0	1.28	J	8.0	1.20
Fluoranthene-d10	A	20	1.15	B	100	1.15	C	200	1.21	D	400	1.14	E	1000	1.10
	F	1600	1.01	G	2000	1.01	H	2.0	1.17	I	4.0	1.19	J	8.0	1.12
Terphenyl-d14	A	20	0.924	B	100	0.892	C	200	0.929	D	400	0.885	E	1000	0.846
	F	1600	0.787	G	2000	0.782	H	2.0	0.983	I	4.0	1.01	J	8.0	0.957

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 07/22/2014

Initial Calibration Summary
Polynuclear Aromatic Hydrocarbons

Calibration ID: CAL13446
Instrument ID: MS14

Column: MS

		Calibration Evaluation					RRF Evaluation		
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Naphthalene	MS	AverageRF	% RSD	4.1		≤ 20	1.06		0.70
2-Methylnaphthalene	MS	AverageRF	% RSD	6.0		≤ 20	0.741		0.40
Acenaphthylene	MS	AverageRF	% RSD	5.8		≤ 20	2.02		0.90
Acenaphthene	MS	AverageRF	% RSD	5.9		≤ 20	1.16		0.90
Fluorene	MS	AverageRF	% RSD	7.3		≤ 20	1.46		0.90
Phenanthrene	MS	AverageRF	% RSD	7.4		≤ 20	1.10		0.70
Anthracene	MS	AverageRF	% RSD	6.2		≤ 20	1.09		0.70
Fluoranthene	MS	AverageRF	% RSD	8.0		≤ 20	1.29		0.60
Pyrene	MS	AverageRF	% RSD	3.9		≤ 20	1.38		0.60
Benz(a)anthracene	MS	AverageRF	% RSD	5.7		≤ 20	1.23		0.80
Chrysene	MS	AverageRF	% RSD	2.9		≤ 20	1.09		0.70
Benzo(b)fluoranthene	MS	AverageRF	% RSD	4.0		≤ 20	1.23		0.70
Benzo(k)fluoranthene	MS	AverageRF	% RSD	7.0		≤ 20	1.22		0.70
Benzo(a)pyrene	MS	AverageRF	% RSD	7.8		≤ 20	1.18		0.70
Indeno(1,2,3-cd)pyrene	MS	AverageRF	% RSD	4.1		≤ 20	1.32		0.50
Dibenz(a,h)anthracene	MS	AverageRF	% RSD	6.9		≤ 20	1.26		0.40
Benzo(g,h,i)perylene	MS	AverageRF	% RSD	6.4		≤ 20	1.43		0.50
Fluorene-d10	SURR	AverageRF	% RSD	7.8		≤ 20	1.18		0.01
Fluoranthene-d10	SURR	AverageRF	% RSD	5.9		≤ 20	1.13		0.01
Terphenyl-d14	SURR	AverageRF	% RSD	8.6		≤ 20	0.900		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Calibration Date: 07/22/2014
Date Analyzed: 07/23/2014

Second Source Calibration Verification
Polynuclear Aromatic Hydrocarbons

Calibration Type: Internal Standard
Analysis Method: 8270D SIM

Calibration ID: CAL13446
Units: ng/ml

File ID: J:\MS14\DATA\072314\0723F005.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Naphthalene	400	380	1.06	0.998	-6	NA	± 30 %	AverageRF
2-Methylnaphthalene	400	360	0.741	0.672	-9	NA	± 30 %	AverageRF
Acenaphthylene	400	370	2.02	1.89	-6	NA	± 30 %	AverageRF
Acenaphthene	400	370	1.16	1.09	-6	NA	± 30 %	AverageRF
Fluorene	400	370	1.46	1.34	-8	NA	± 30 %	AverageRF
Phenanthrene	400	370	1.10	1.03	-7	NA	± 30 %	AverageRF
Anthracene	400	360	1.09	0.988	-10	NA	± 30 %	AverageRF
Fluoranthene	400	370	1.29	1.20	-7	NA	± 30 %	AverageRF
Pyrene	400	360	1.38	1.25	-10	NA	± 30 %	AverageRF
Benz(a)anthracene	400	360	1.23	1.10	-11	NA	± 30 %	AverageRF
Chrysene	400	380	1.09	1.03	-6	NA	± 30 %	AverageRF
Benzo(b)fluoranthene	400	380	1.23	1.17	-4	NA	± 30 %	AverageRF
Benzo(k)fluoranthene	400	360	1.22	1.11	-9	NA	± 30 %	AverageRF
Benzo(a)pyrene	400	370	1.18	1.09	-8	NA	± 30 %	AverageRF
Indeno(1,2,3-cd)pyrene	400	390	1.32	1.27	-4	NA	± 30 %	AverageRF
Dibenz(a,h)anthracene	400	380	1.26	1.21	-4	NA	± 30 %	AverageRF
Benzo(g,h,i)perylene	400	370	1.43	1.33	-7	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/13/2014

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

Calibration Type: Internal Standard
Analysis Method: 8270D SIM

Calibration Date: 07/22/2014
Calibration ID: CAL13446
Analysis Lot: KWG1413983
Units: ng/ml

File ID: J:\MS14\DATA\101314\1013F028.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Naphthalene	400	380	0.70	1.06	1.02	-4	NA	± 20	AverageRF
2-Methylnaphthalene	400	400	0.40	0.741	0.736	-1	NA	± 20	AverageRF
Acenaphthylene	400	400	0.90	2.02	2.04	1	NA	± 20	AverageRF
Acenaphthene	400	410	0.90	1.16	1.20	3	NA	± 20	AverageRF
Fluorene	400	410	0.90	1.46	1.51	3	NA	± 20	AverageRF
Phenanthrene	400	410	0.70	1.10	1.14	3	NA	± 20	AverageRF
Anthracene	400	400	0.70	1.09	1.10	0	NA	± 20	AverageRF
Fluoranthene	400	400	0.60	1.29	1.28	-1	NA	± 20	AverageRF
Pyrene	400	410	0.60	1.38	1.41	2	NA	± 20	AverageRF
Benz(a)anthracene	400	420	0.80	1.23	1.29	5	NA	± 20	AverageRF
Chrysene	400	430	0.70	1.09	1.16	7	NA	± 20	AverageRF
Benzo(b)fluoranthene	400	470	0.70	1.23	1.43	16	NA	± 20	AverageRF
Benzo(k)fluoranthene	400	450	0.70	1.22	1.38	13	NA	± 20	AverageRF
Benzo(a)pyrene	400	430	0.70	1.18	1.26	7	NA	± 20	AverageRF
Indeno(1,2,3-cd)pyrene	400	360	0.50	1.32	1.19	-10	NA	± 20	AverageRF
Dibenz(a,h)anthracene	400	370	0.40	1.26	1.15	-8	NA	± 20	AverageRF
Benzo(g,h,i)perylene	400	370	0.50	1.43	1.32	-8	NA	± 20	AverageRF
Fluorene-d10	400	410	0.01	1.18	1.22	3	NA	± 20	AverageRF
Fluoranthene-d10	400	410	0.01	1.13	1.15	2	NA	± 20	AverageRF
Terphenyl-d14	400	370	0.01	0.900	0.830	-8	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700
Date Analyzed: 10/15/2014

Continuing Calibration Verification Summary
Polynuclear Aromatic Hydrocarbons

Calibration Type: Internal Standard
Analysis Method: 8270D SIM

Calibration Date: 07/22/2014
Calibration ID: CAL13446
Analysis Lot: KWG1414042
Units: ng/ml

File ID: J:\MS14\DATA\101514\1015F006.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Naphthalene	400	380	0.70	1.06	0.996	-6	NA	± 20	AverageRF
2-Methylnaphthalene	400	360	0.40	0.741	0.665	-10	NA	± 20	AverageRF
Acenaphthylene	400	390	0.90	2.02	1.98	-2	NA	± 20	AverageRF
Acenaphthene	400	410	0.90	1.16	1.18	1	NA	± 20	AverageRF
Fluorene	400	400	0.90	1.46	1.44	-1	NA	± 20	AverageRF
Phenanthrene	400	410	0.70	1.10	1.12	2	NA	± 20	AverageRF
Anthracene	400	390	0.70	1.09	1.06	-3	NA	± 20	AverageRF
Fluoranthene	400	390	0.60	1.29	1.26	-2	NA	± 20	AverageRF
Pyrene	400	400	0.60	1.38	1.38	0	NA	± 20	AverageRF
Benz(a)anthracene	400	420	0.80	1.23	1.28	4	NA	± 20	AverageRF
Chrysene	400	430	0.70	1.09	1.17	8	NA	± 20	AverageRF
Benzo(b)fluoranthene	400	470	0.70	1.23	1.44	17	NA	± 20	AverageRF
Benzo(k)fluoranthene	400	460	0.70	1.22	1.41	16	NA	± 20	AverageRF
Benzo(a)pyrene	400	430	0.70	1.18	1.27	8	NA	± 20	AverageRF
Indeno(1,2,3-cd)pyrene	400	380	0.50	1.32	1.24	-6	NA	± 20	AverageRF
Dibenz(a,h)anthracene	400	390	0.40	1.26	1.24	-2	NA	± 20	AverageRF
Benzo(g,h,i)perylene	400	380	0.50	1.43	1.36	-5	NA	± 20	AverageRF
Fluorene-d10	400	400	0.01	1.18	1.17	-1	NA	± 20	AverageRF
Fluoranthene-d10	400	400	0.01	1.13	1.12	0	NA	± 20	AverageRF
Terphenyl-d14	400	360	0.01	0.900	0.806	-10	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: 8270D SIM

Analysis Lot: KWG1413983
Instrument ID: MS14

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1013F027.D	GC/MS Tuning - Decafluorotriphenylphospl	KWG1413983-1	10/13/2014	18:37		10/13/2014	18:57
1013F028.D	Continuing Calibration Verification	KWG1413983-2	10/13/2014	19:02		10/13/2014	19:20
1013F029.D	Method Blank	KWG1413420-3	10/13/2014	19:26		10/13/2014	19:44
1013F030.D	Lab Control Sample	KWG1413420-1	10/13/2014	19:47		10/13/2014	20:05
1013F031.D	Duplicate Lab Control Sample	KWG1413420-2	10/13/2014	20:10		10/13/2014	20:28
1013F032.D	ZZZZZZ	ZZZZZZ	10/13/2014	20:32		10/13/2014	20:50
1013F033.D	ZZZZZZ	ZZZZZZ	10/13/2014	20:53		10/13/2014	21:11
1013F034.D	MW-16	K1410700-003	10/13/2014	21:15		10/13/2014	21:33
1013F035.D	MW-17	K1410700-004	10/13/2014	21:37		10/13/2014	21:55
1013F036.D	MW-18	K1410700-005	10/13/2014	21:59		10/13/2014	22:17
1013F037.D	MW-2	K1410700-006	10/13/2014	22:21		10/13/2014	22:39
1013F038.D	MW-30	K1410700-015	10/13/2014	22:43		10/13/2014	23:01
1013F039.D	MW-35	K1410700-020	10/13/2014	23:05		10/13/2014	23:23
1013F040.D	MW-3	K1410700-031	10/13/2014	23:27		10/13/2014	23:45
1013F041.D	ZZZZZZ	ZZZZZZ	10/13/2014	23:49		10/14/2014	00:07
1013F042.D	ZZZZZZ	ZZZZZZ	10/14/2014	00:11		10/14/2014	00:29
1013F043.D	ZZZZZZ	ZZZZZZ	10/14/2014	00:33		10/14/2014	00:51
1013F044.D	ZZZZZZ	ZZZZZZ	10/14/2014	00:55		10/14/2014	01:13
1013F045.D	ZZZZZZ	ZZZZZZ	10/14/2014	01:16		10/14/2014	01:34
1013F046.D	ZZZZZZ	ZZZZZZ	10/14/2014	01:39		10/14/2014	01:57
1013F047.D	ZZZZZZ	ZZZZZZ	10/14/2014	02:01		10/14/2014	02:19
1013F048.D	ZZZZZZ	ZZZZZZ	10/14/2014	02:24		10/14/2014	02:42
1013F049.D	ZZZZZZ	ZZZZZZ	10/14/2014	02:45		10/14/2014	03:03

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington

Service Request: K1410700

Analysis Run Log
Polynuclear Aromatic Hydrocarbons

Analysis Method: 8270D SIM

Analysis Lot: KWG1414042
Instrument ID: MS14

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1015F005.D	GC/MS Tuning - Decafluorotriphenylphospl	KWG1414042-1	10/15/2014	11:47		10/15/2014	12:07
1015F006.D	Continuing Calibration Verification	KWG1414042-2	10/15/2014	13:17		10/15/2014	13:35
1015F007.D	ZZZZZZ	ZZZZZZ	10/15/2014	13:40		10/15/2014	13:58
1015F008.D	ZZZZZZ	ZZZZZZ	10/15/2014	14:02		10/15/2014	14:20
1015F009.D	Method Blank	KWG1413493-3	10/15/2014	14:25		10/15/2014	14:43
1015F010.D	ZZZZZZ	ZZZZZZ	10/15/2014	14:48		10/15/2014	15:06
1015F011.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:10		10/15/2014	15:28
1015F012.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:32		10/15/2014	15:50
1015F013.D	ZZZZZZ	ZZZZZZ	10/15/2014	15:55		10/15/2014	16:13
1015F014.D	ZZZZZZ	ZZZZZZ	10/15/2014	16:18		10/15/2014	16:36
1015F015.D	ZZZZZZ	ZZZZZZ	10/15/2014	16:40		10/15/2014	16:58
1015F016.D	Lab Control Sample	KWG1413493-1	10/15/2014	17:03		10/15/2014	17:21
1015F017.D	Duplicate Lab Control Sample	KWG1413493-2	10/15/2014	17:25		10/15/2014	17:43
1015F018.D	ZZZZZZ	ZZZZZZ	10/15/2014	17:48		10/15/2014	18:06
1015F019.D	ZZZZZZ	ZZZZZZ	10/15/2014	18:10		10/15/2014	18:28
1015F020.D	ZZZZZZ	ZZZZZZ	10/15/2014	18:33		10/15/2014	18:51
1015F021.D	ZZZZZZ	ZZZZZZ	10/15/2014	18:56		10/15/2014	19:14
1015F022.D	ZZZZZZ	ZZZZZZ	10/15/2014	19:19		10/15/2014	19:37
1015F023.D	MW-15	K1410700-002	10/15/2014	19:41		10/15/2014	19:59
1015F024.D	MW-36	K1410700-021	10/15/2014	20:03		10/15/2014	20:21
1015F025.D	MW-37	K1410700-022	10/15/2014	20:26		10/15/2014	20:44
1015F026.D	FIELD BLANK RINSATE	K1410700-030	10/15/2014	20:48		10/15/2014	21:06
1015F027.D	ZZZZZZ	ZZZZZZ	10/15/2014	21:11		10/15/2014	21:29

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700
Date Extracted: 10/02/2014

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Extraction Lot: KWG1413420
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
MW-16	K1410700-003	09/28/14	10/01/14	1060ml	5ml	NA	
MW-17	K1410700-004	09/28/14	10/01/14	1040ml	5ml	NA	
MW-18	K1410700-005	09/28/14	10/01/14	1060ml	5ml	NA	
MW-2	K1410700-006	09/28/14	10/01/14	1040ml	5ml	NA	
MW-30	K1410700-015	09/28/14	10/01/14	1060ml	5ml	NA	
MW-35	K1410700-020	09/28/14	10/01/14	1060ml	5ml	NA	
MW-3	K1410700-031	09/28/14	10/01/14	1040ml	5ml	NA	
Method Blank	KWG1413420-3	NA	NA	1060ml	5ml	NA	
Lab Control Sample	KWG1413420-1	NA	NA	1000ml	5ml	NA	
Duplicate Lab Control Sample	KWG1413420-2	NA	NA	1000ml	5ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: JH Baxter & Company
Project: JH Baxter - Arlington
Sample Matrix: Water

Service Request: K1410700
Date Extracted: 10/06/2014

Extraction Prep Log
Polynuclear Aromatic Hydrocarbons

Extraction Method: EPA 3520C
Analysis Method: 8270D SIM

Extraction Lot: KWG1413493
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
MW-15	K1410700-002	09/29/14	10/01/14	1060ml	5ml	NA	
MW-36	K1410700-021	09/29/14	10/01/14	1060ml	5ml	NA	
MW-37	K1410700-022	09/29/14	10/01/14	1060ml	5ml	NA	
FIELD BLANK RINSATE	K1410700-030	09/29/14	10/01/14	1060ml	5ml	NA	
Method Blank	KWG1413493-3	NA	NA	1060ml	5ml	NA	
Lab Control Sample	KWG1413493-1	NA	NA	1000ml	5ml	NA	
Duplicate Lab Control Sample	KWG1413493-2	NA	NA	1000ml	5ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

APPENDIX C

Quality Assurance Review

QUALITY ASSURANCE REVIEW

Site Investigation - Supplemental Groundwater Sampling and Remedial Action Pilot Study Performance Monitoring

J.H. Baxter Arlington, Washington Facility

Prepared for:

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November 2014

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Table 2 Field Duplicate Detections

Table 3 Qualifiers Added During Validation

ACRONYMS

%D	percent difference or percent drift
µg/L	micrograms per liter
ALS	ALS Environmental
AMEC	AMEC Environment & Infrastructure, Inc.
CCV	continuing calibration verification
CLP	Contract Laboratory Program
COC	chain of custody
EPA	United States Environmental Protection Agency
ICAL	initial calibration
ICV	initial calibration verification
ID	identification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
PAH	polycyclic aromatic hydrocarbon
PCP	pentachlorophenol
QC	quality control
RL	reporting limit
RPD	relative percent difference
RSD	relative standard deviations
SADMP	Sampling and Analysis and Data Management Plan
SIM	selective ion monitoring

QUALITY ASSURANCE REVIEW

Site Investigation - Supplemental Groundwater Sampling and Remedial Action Pilot Study Performance Monitoring
J.H. Baxter Arlington, Washington Facility

1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC) performed a Level III validation of the analytical data from groundwater samples collected at the J.H. Baxter Arlington, Washington facility. Thirty-three groundwater samples (including two duplicates), a composite extraction well sample, and one rinsate blank were collected on September 28 and 29, 2014. The samples were submitted to ALS Environmental (ALS) located in Kelso, Washington, where they were analyzed for pentachlorophenol (PCP) and/or breakdown products by Modified United States Environmental Protection Agency (EPA) Method 8151A and/or polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270-selective ion monitoring (SIM). A list of these samples by field sample identification (ID), sample collection date, and ALS sample ID is presented in Table 1.

2.0 DATA VALIDATION METHODOLOGY

AMEC performed a Level III validation on results from these samples. The Level III validation includes review of the quality control (QC) results in the laboratories' analytical reports and reported on QC summary forms, but does not include review of the raw analytical data to confirm reported concentrations and analyte identification. This data validation has been performed in general accordance with:

- EPA, 2004. SW-846 Test Methods for Evaluating Solid Wastes, Update IIIB.
- Baxter, 2002. Sampling and Analysis and Data Management Plan for the Site Investigation Work Plan J.H. Baxter Arlington Facility (SADMP).
- EPA, 2014. EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002.
- EPA, 2001. Region 9 Superfund Data Evaluation/Validation Guidance, Version 1, R9QA/006.1, December, 2001.

The EPA CLP guideline was written specifically for the CLP, and has been modified for the purposes of this data review where it differs from method-specific QC requirements.

The laboratory's certified analytical report and supporting documentation were reviewed to assess the following:

- Data package and electronic data deliverable completeness;
- Chain of custody (COC) compliance;
- Holding time compliance;
- Initial calibration (ICAL), initial calibration verification (ICV), and continuing calibration verification (CCV) compliance with method-specified criteria;
- Presence or absence of laboratory contamination as demonstrated by laboratory blanks;
- Accuracy and bias as demonstrated by recovery of surrogate spikes, laboratory control sample (LCS), and matrix spike (MS) samples;
- Analytical precision as relative percent difference (RPD) of analyte concentration between laboratory control spike duplicate (LCSD) or MS/MS duplicate (MSD);
- Analytical precision as RPD of analyte concentrations between primary and confirmation columns;
- Sampling and analytical precision as RPD of analyte concentration between field duplicates;
- Assessment of field contamination as demonstrated by field blanks; and
- Insofar as possible, the degree of conformance to method requirements and good laboratory practices.

In general, it is important to recognize that no analytical data are guaranteed to be correct, even if all QC audits are passed. Strict QC serves to increase confidence in data, but any reported value may potentially contain error.

3.0 EXPLANATION OF DATA QUALITY INDICATORS

Summary explanations of the specific data quality indicators reviewed during this data quality review are presented below.

3.1 LABORATORY CONTROL SAMPLE RECOVERIES

LCSs are aliquots of analyte-free matrices that are spiked with the analytes of interest for an analytical method, or a representative subset of those analytes. The spiked matrix is then processed through the same analytical procedures as the samples they accompany. LCS recovery

is an indication of a laboratory's ability to successfully perform an analytical method in an interference-free matrix.

3.2 MATRIX SPIKE RECOVERIES

MSs and MSDs are prepared by adding known amounts of the analytes of interest for an analytical method, or a representative subset of those analytes, to an aliquot of sample. The spiked sample is then processed through the same extraction, concentration, cleanup, and analytical procedures as the unspiked samples in an analytical batch.

MS recovery and precision are an indication of a laboratory's ability to successfully recover an analyte in the matrix of a specific sample or closely related sample matrices. It is important not to apply MS results for any specific sample to other samples without understanding how the sample matrices are related.

3.3 SURROGATE SPIKE RECOVERIES

Surrogate spikes are used to evaluate accuracy, method performance, and extraction efficiency in each individual sample. Surrogate compounds are compounds not normally found in environmental samples, but which are similar to target analytes in chemical composition and behavior in the analytical process.

3.4 BLANK CONCENTRATIONS

Blank samples are aliquots of analyte free matrix that are used as negative controls to verify that the sample collection, storage, preparation, and analysis system does not produce false positive results.

Field blanks are prepared by pouring analyte-free water into sample containers in the field. Field blanks are analyzed for the analytical suite required for the project. Field blanks are used to monitor for possible sample contamination during the sample collection process.

Rinsate blanks are prepared by passing analyte-free water through or over sample collection equipment and collecting the water in sample containers. Rinsate blanks are analyzed for the analytical suite required for the project. Rinsate blanks are used to monitor for possible sample contamination during the sample collection process and serve as a check on the effectiveness of field decontamination procedures.

Trip blanks are vials of analyte free water that accompany sample bottles shipped to the field and back to the laboratory with field samples. Trip blanks assess contamination attributed to shipping and handling procedures, as well as contamination from containers. Target analytes should not be found in trip blanks.

Laboratory blanks are processed by the laboratory using exactly the same procedures as the field samples. Target analytes should not be found in laboratory blanks.

When target analytes are detected in blanks, analyte concentrations in associated samples less than 5 times the concentration detected in the blank will be U qualified as being not detected.

3.5 LABORATORY AND FIELD DUPLICATES

Laboratory and field duplicate analysis verifies acceptable method precision by the laboratory at the time of preparation and analysis and/or sampling precision at the time of collection.

4.0 DEFINITIONS OF QUALIFIERS THAT MAY BE ADDED DURING VALIDATION

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

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

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

5.0 REASON CODES APPLIED DURING DATA VALIDATION

DL The analyte concentration is between the method detection limit (MDL) and the reporting limit (RL).

LC Low CCV recovery. Analytical result may be biased low.

SC The RPD between results from the primary and confirmation columns is greater than 40%.

RB The analyte was detected in the sample and the associated rinsate blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.

6.0 DATA VALIDATION FINDINGS

6.1 CUSTODY, PRESERVATION, AND COMPLETENESS

Sample custody was maintained as required from sample collection to receipt at the laboratory. The samples were received intact, properly preserved, and at temperatures less than the EPA-recommended maximum of 6 degrees Celsius. The laboratory reports are complete and contain results for the sample and tests requested on the COCs, with the following exception:

ALS noted on their sample receipt paperwork that they received four trip blanks and an additional PCP container from sample BXS-3. These containers were not listed on the chains of custody, and ALS did not analyze them.

6.2 PENTACHLOROPHENOL AND BREAKDOWN PRODUCTS BY EPA METHOD 8151 MODIFIED

6.2.1 Holding Times

The samples were extracted within the SADMP-specified maximum holding time of 7 days from collection and the sample extracts were analyzed within the method-required maximum holding time of 40 days from extraction.

6.2.2 Initial Calibration

Correlation coefficients and coefficients of determination were greater than the EPA-recommended minimum of 0.99, and relative standard deviations (RSDs) were less than the SADMP-specified maximum of 25% in the ICALs associated with the analysis of these samples.

6.2.3 Initial Calibration Verification

ICV analyte recoveries associated with the PCP analysis of these samples were within the SADMP-specified limit of ±20 percent difference or percent drift (%D).

6.2.4 Continuing Calibration Verification

CCV recoveries associated with the PCP analysis of these samples were within the SADMP-specified limit of ±20 %D, with the following exceptions:

- %Ds for the surrogate 4-bromo-2,6-dichlorophenol were low at -28% and -23% in the confirmation column CCVs associated with the analysis of samples BXS-1, BXS-2, and BXS-5. CCVs from the primary analytical column were within SADMP-specified limits, and the laboratory reported data from the primary analytical column. Data usability is not adversely affected.
- %Ds for 2,4,6-trichlorophenol were high at 24% and 25% in the confirmation column CCVs associated with the analysis of sample EW 2-4 Composite. CCVs from the primary analytical column were within SADMP-specified limits, and the laboratory reported data from the primary analytical column. Data usability is not adversely affected.
- The %D was high for the surrogate 4-bromo-2,6-dichlorophenol in several confirmation column CCVs associated with the analysis of samples HCMW-7, MW-3, MW-23, MW-27, MW-28, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-45, and rinsate blank FIELD BLANK RINSATE. CCVs from the primary analytical column were within SADMP-specified limits, and the laboratory reported data from the primary analytical column. Data usability is not adversely affected.

6.2.5 Blank Analyses

Laboratory Blanks

Laboratory blanks were analyzed at the required frequency of one per extraction batch. Target analytes were not detected in the laboratory blanks at concentrations above reporting limits.

Rinsate Blank

Target analytes were not detected in the rinsate blank at concentrations above reporting limits.

6.2.6 Surrogate Analyses

Surrogate compounds were added to all samples, blanks, and QC samples as required. Recoveries of the surrogate compound 4-bromo-2,6-dichlorophenol were within the SADMP-specified 40 to 100% limits, with the following exception:

- Surrogate recovery was high at 136% in the PCP analysis of sample MW-15. PCP was not detected in this sample and data usability is not adversely affected by the potentially high analytical bias.

6.2.7 Laboratory Control Sample Analyses

The laboratory reported LCS/LCSDs at the required frequency of one per extraction batch. Recovery and RPD values were within applicable SADMP limits.

6.2.8 Matrix Spike/Matrix Spike Duplicate Analyses

MS and MSD analyses were performed on samples HCMW-7 and MW-37. Recovery and RPD values were compared to the applicable SADMP or laboratory limits for analytes not listed in the SADMP. Recovery and RPD values were acceptable, with the following exception:

- PCP recoveries were low at -247% and -149% in the MS/MSD performed on sample MW-37. The background PCP concentration in the unspiked native sample, at 65 micrograms per liter (µg/L), was greater than four times the spike concentration of 10 µg/L and it is not possible to evaluate data usability for this analyte based on MS recoveries.

6.2.9 Laboratory Reporting Limits

The SADMP-specified quantitation requirements and reporting limit goals were met for undiluted samples with the following exception:

- RLs for the analytes 2,4,5-trichlorophenol and total tetrachlorophenols were above the SADMP-specified goals of 0.5 µg/L, at 1.0 µg/L in the analysis of sample EW 2-4 Composite. The estimated concentration of 2,4,5-trichlorophenol from this sample (0.24 µg/L) was below the SADMP-specified goal RL, the detected total tetrachlorophenols result (31µg/L) was greater than the elevated RL, and data usability is not adversely affected.

6.2.10 Confirmation Results

RPDs between analytical results from the primary and confirmation columns were less than the laboratory-specified 40% limit, with the following exception:

- The RPD between PCP results from sample MW-26 was high at 76.1%. AMEC N qualified the detected PCP result from this sample as being presumptively identified. (N-SC)

6.2.11 Data Reporting and Analytical Procedures

ALS J qualified detected results with a concentration between the MDL and the RL. AMEC agrees that these results are quantitatively uncertain and maintained ALS' J qualifiers. (J-DL)

6.3 POLYCYCLIC AROMATIC HYDROCARBONS BY EPA METHOD 8270D SIM

6.3.1 Holding Times

The samples were extracted within the method-required maximum holding time of 7 days from collection and the sample extracts were analyzed within the method-required maximum holding time of 40 days from extraction.

6.3.2 Instrument Tuning and Mass Calibration

The tuning compound decafluorotriphenylphosphine was analyzed at the beginning of each 12-hour analytical shift and all relative abundance criteria met method-specified limits.

6.3.3 Initial Calibration

RSDs were less than the SADMP-specified maximum of 25% and relative response factors were greater than the SADMP-specified minimum of 0.1.

6.3.4 Initial Calibration Verification

ICV %Ds were within the SADMP-specified ±20% range.

6.3.5 Continuing Calibration Verification

CCV %Ds were within the SADMP-specified ±20% range.

6.3.6 Blank Analyses

Laboratory Blanks

Laboratory blanks were analyzed at the required frequency of one per extraction batch. Target analytes were not detected in the laboratory blanks at concentrations above reporting limits.

Rinsate Blank

Target analytes were not detected in the rinsate blank at concentrations above reporting limits, with the following exception:

- Naphthalene was detected at a concentration of 0.041 µg/L in the rinsate blank associated with sample MW-30. AMEC U flagged the detected naphthalene result from sample MW-30 because, at 0.020 µg/L, the concentration detected in this sample was less than 5 times the concentration detected in the blank. (U-RB)

6.3.7 Surrogate Analyses

Surrogate compounds were added to all samples, blanks, and QC samples as required. Surrogate recoveries were within the SADMP-specified 31 to 97% limits for fluorene-d_{10}, 31 to 113% limits for fluoranthene-d_{10}, and 30 to 115% limits for terphenyl-d_{14}.

6.3.8 Internal Standard Evaluation

Internal standards were added to all samples, blanks and QC samples as required. All IS recoveries were within the SADMP-specified 50 to 100% limits.

6.3.9 Laboratory Control Sample Analyses

The laboratory processed and analyzed LCS/LCSDs at the required frequency of one per extraction batch. Recovery and RPD values were within SADMP criteria or laboratory limits for analytes not listed in the SADMP.

6.3.10 Matrix Spike/Matrix Spike Duplicate Analyses

Project-specific MS/MSDs were not performed on PAH samples from this project because of insufficient sample volume. The laboratory provided LCS and LCSD data to demonstrate acceptable analytical precision and accuracy.

6.3.11 Laboratory Reporting Limits

The SADMP-specified quantitation requirements and reporting limit goals were met for undiluted samples.

6.3.12 Data Reporting and Analytical Procedure

ALS J qualified detected analytes with concentrations between the MDL and the RL. AMEC agrees that these results are quantitatively uncertain and maintained ALS' J qualifiers. (J-DL)

7.0 FIELD DUPLICATES

Field duplicates were collected with samples MW-33 (MW-45) and BXS-5 (BXS-1). Detections in the field duplicate pairs are summarized in Table 2. RPDs between the primary and duplicate samples were less than the SADMP-specified maximum limit of 35% or the difference between detected results was less than the RL.

8.0 OVERALL ASSESSMENT OF DATA USABILITY

The data are fully usable with the addition of the qualifiers specified in Sections 6.2 and 6.3. Qualifiers added during data validation are summarized in Table 3, with qualifier definitions summarized in Section 4.0 and reason codes summarized in Section 5.0.

AMEC reviewed a total of 276 data records from field samples during validation. AMEC J qualified 18 records (6.5%) as estimated values because of analyte concentrations between the MDL and the RL. AMEC U qualified one record (0.4%) because of a detection in the associated rinsate blank, and N qualified one record (0.4%) as being presumptively identified because of excess difference between results from the primary and secondary analytical columns. No data were rejected during validation, meeting the SADMP-specified minimum completeness goal of 95% usable data.

REFERENCES

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EPA, 2001. Region 9 Superfund Data Evaluation/Validation Guidance, Version 1, R9QA/006.1, December, 2001.

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EPA, 2007. Method 8270D, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), Revision 4. February 2007.

EPA, 2014. EPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002.

LIMITATIONS

This report was prepared exclusively for J.H. Baxter by AMEC Environment & Infrastructure, Inc. The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in AMEC services and based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions, and qualifications set forth in this report. This Quality Assurance Review is intended to be used by J.H. Baxter for the J.H. Baxter Arlington, Washington Facility only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

TABLES

TABLE 1
Field Samples Submitted to ALS Environmental with Corresponding Laboratory Identifications
J.H. Baxter Arlington, Washington Facility

Field Sample ID	Collection Date	ALS Sample ID	Notes
HCMW-7	9/29/2014	K1410700-001	PCP only, MS/MSD
MW-15	9/29/2014	K1410700-002	
MW-16	9/28/2014	K1410700-003	
MW-17	9/28/2014	K1410700-004	
MW-18	9/28/2014	K1410700-005	
MW-2	9/28/2014	K1410700-006	
MW-22	9/28/2014	K1410700-007	PCP only
MW-23	9/28/2014	K1410700-008	PCP only
MW-24	9/28/2014	K1410700-009	PCP only
MW-25	9/28/2014	K1410700-010	PCP only
MW-26	9/28/2014	K1410700-011	PCP only
MW-27	9/28/2014	K1410700-012	PCP only
MW-28	9/29/2014	K1410700-013	PCP only
MW-29	9/28/2014	K1410700-014	PCP only
MW-30	9/28/2014	K1410700-015	
MW-31	9/28/2014	K1410700-016	PCP only
MW-32	9/28/2014	K1410700-017	PCP only
MW-33	9/28/2014	K1410700-018	PCP only
MW-34	9/28/2014	K1410700-019	PCP only
MW-35	9/28/2014	K1410700-020	
MW-36	9/29/2014	K1410700-021	
MW-37	9/29/2014	K1410700-022	MS/MSD
MW-38	9/28/2014	K1410700-023	PCP only
MW-39	9/29/2014	K1410700-024	PCP only
MW-40	9/29/2014	K1410700-025	PCP only
MW-41	9/29/2014	K1410700-026	PCP only
MW-42	9/29/2014	K1410700-027	PCP only
MW-43	9/29/2014	K1410700-028	PCP only
MW-45	9/28/2014	K1410700-029	PCP only, field duplicate of MW-33
Field Blank Rinsate	9/29/2014	K1410700-029	
MW-3	9/29/2014	K1410700-030	MS/MSD
BXS-1	9/29/2014	K1410695-001	
BXS-2	9/29/2014	K1410695-002	
BXS-5	9/29/2014	K1410695-005	field duplicate of BXS-1
EW 2-4	9/29/2014	K1410694-003	PCP and Breakdown Products only, lab composite

Notes:
ALS = ALS Environmental
ID = identification
MS/MSD = matrix spike/matrix spike duplicate
N/A = Not Applicable
PAH = polycyclic aromatic hydrocarbons
PCP = pentachlorophenol

TABLE 2
Field Duplicate Detections
J.H. Baxter Arlington, Washington Facility

Analyte	Reporting Limit (µg/L)	Primary Sample (µg/L)	Field Duplicate (µg/L)	Relative Percent Difference	Notes
Samples BXS-1 and BXS-5					
Pentachlorophenol	0.50	49	43	13%	
Anthracene	0.020	0.0082 J	0.0036 U	NC	± RL
2-Methylnaphthalene	0.019	0.0023 U	0.0024 J	NC	
Naphthalene	0.019	0.013 J	0.019 J	38%	± RL
Samples MW-33 and MW-45					
Pentachlorophenol	0.5	23	21	9%	

Notes:

µg/L = micrograms per liter

± RL = The difference between analyte concentrations is less than the reporting limit, demonstrating acceptable sampling and/or analytical precision.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

NC = Not calculable because one result is non-detect.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 3
Qualifiers Added During Validation
J.H. Baxter Arlington, Washington Facility

Sample ID	Analyte	Concentration	Qualifiers and Reason Codes
BXS-1	Anthracene	0.0082 µg/L	J DL
	Naphthalene	0.013 µg/L	J DL
BXS-5	Benzo(a)anthracene	0.0024 µg/L	J DL
	Naphthalene	0.019 µg/L	J DL
EW-2-4 Composite	2,4,5-Trichlorophenol	0.24 µg/L	J DL
MW-2	Benzo(a)anthracene	0.0026 µg/L	J DL
	Naphthalene	0.018 µg/L	J DL
MW-3	Benzo(a)anthracene	0.0032 µg/L	J DL
	2-Methylnaphthalene	0.0032 µg/L	J DL
	Naphthalene	0.017 µg/L	J DL
MW-16	Benzo(a)anthracene	0.0028 µg/L	J DL
	Naphthalene	0.017 µg/L	J DL
MW-18	Naphthalene	0.015 µg/L	J DL
MW-26	Pentachlorophenol	0.22 µg/L	N SC
MW-30	Fluorene	0.0075 µg/L	J DL
	Naphthalene	0.020 µg/L	U RB
	2-Methylnaphthalene	0.011 µg/L	J DL
	Phenanthrene	0.0075 µg/L	J DL
MW-31	Pentachlorophenol	0.29 µg/L	J DL
MW-36	Naphthalene	0.016 µg/L	J DL

Notes:
µg/L = micrograms per liter

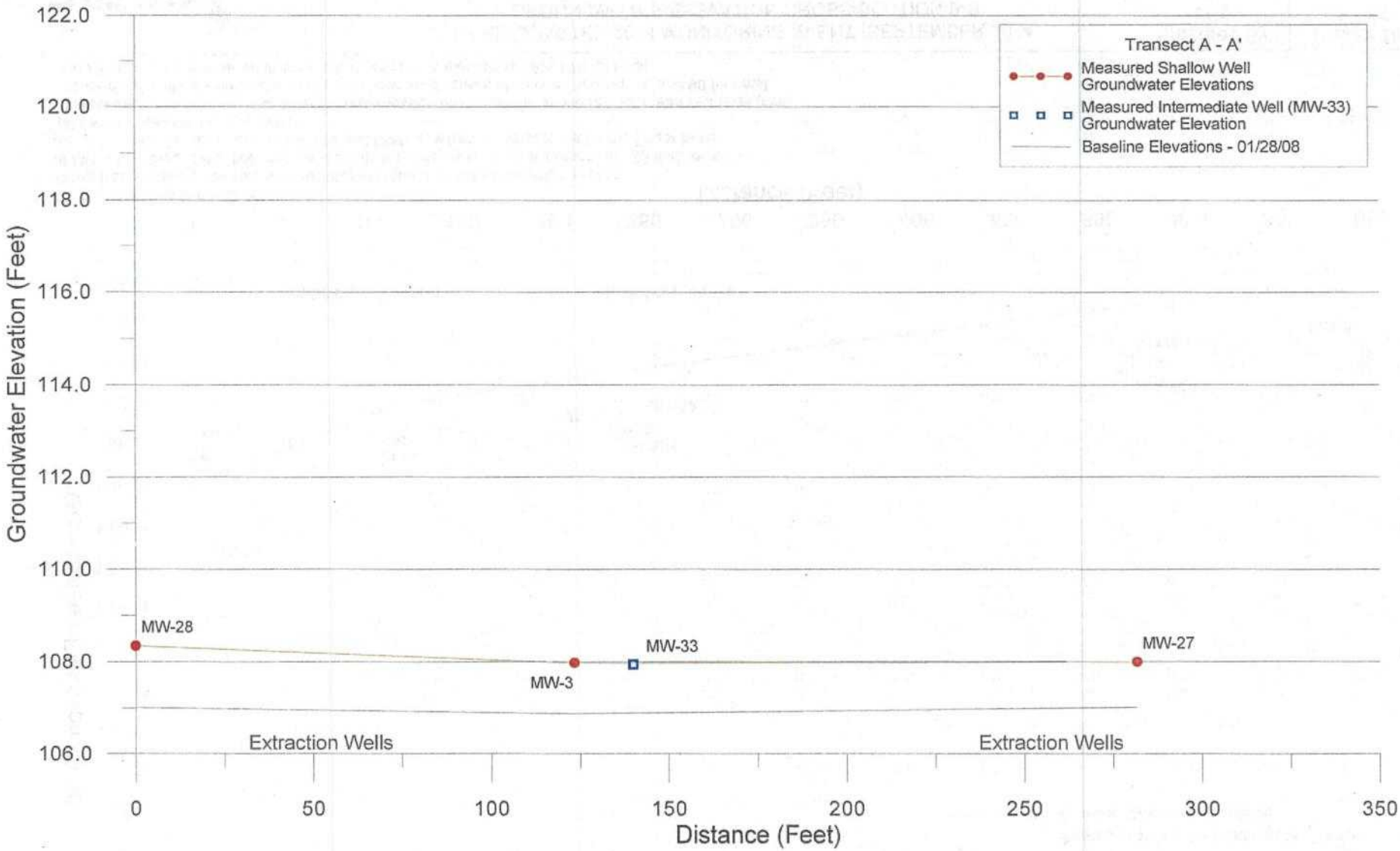
Qualifier Definitions:
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Reason Code Definitions:
LC = The %D between CCV results is outside EPA recommended recovery limits.
DL = The analyte concentration is between the method detection limit and the reporting limit.
SC = The RPD between results from the primary and confirmation columns is greater than 40%.
RB = The analyte was detected in the sample and the associated rinsate blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.

APPENDIX D

Other Figures

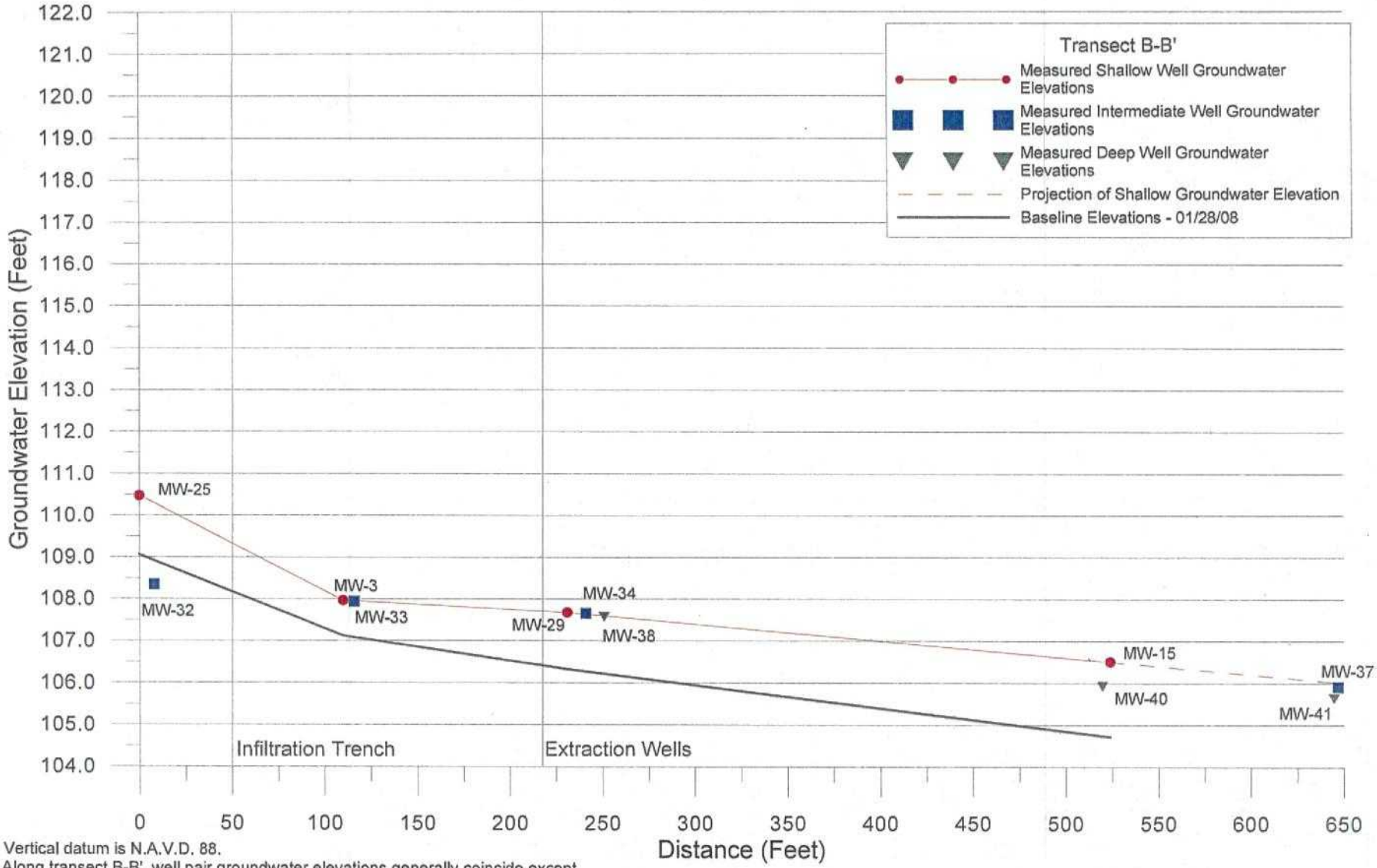
P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Groundwater Cross Sections\GW_CrossSec_AA_12808_Baseline_2012.grf



Notes: 1. Vertical datum is N.A.V.D 88.
2. Along transect A-A', well pair groundwater elevations generally coincide, indicating minimal vertical gradient in the vicinity of MW-3 and MW-33.
3. Shallow wells are defined as wells with bottom-of-screen elevations above 90 feet mean sea level (msl). Intermediate wells are defined as wells with bottom-of-screen elevations beween 70 and 90 feet msl.

amec	THIRD QUARTER 2014 MONITORING EVENT (SEPTEMBER 2014) GROUNDWATER ELEVATION CROSS-SECTION A-A' Former J.H. Baxter and Co. Wood Treating Facility Arlington, Washington	Prepared By: LCD 10/15/14	Project No. 12706 Figure No. 1

P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Groundwater Cross Sections\GW_CrossSec_BB_12808_Baseline_2013.grf



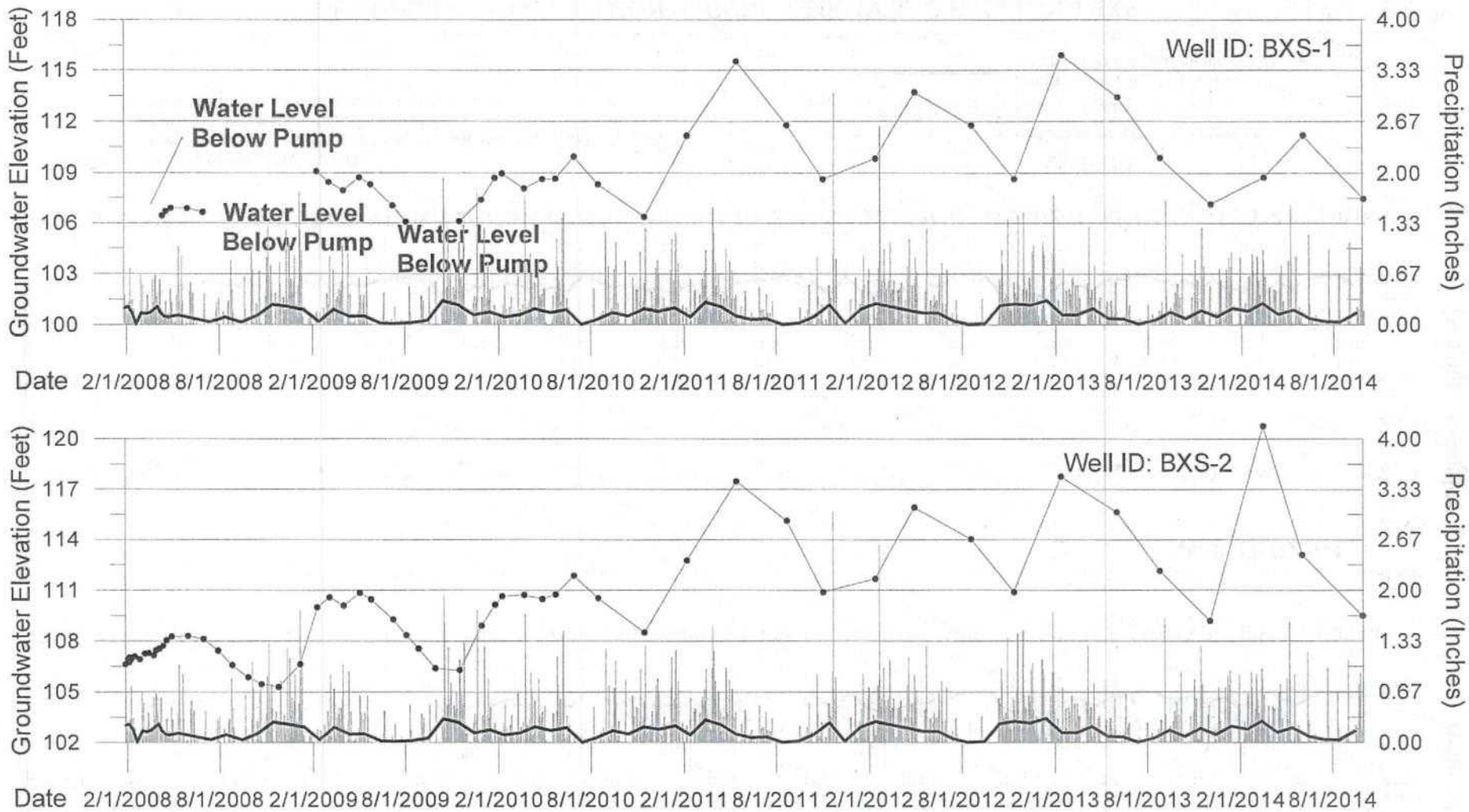
Notes: 1. Vertical datum is N.A.V.D. 88.

2. Along transect B-B', well pair groundwater elevations generally coincide except at MW-25/MW-32, indicating minimal vertical gradient. A silt layer is present at ~20 feet below ground surface in the vicinity of MW-25 and MW-32, which could account for the larger head differences observed at this well pair.

3. Shallow wells are defined as wells with bottom-of-screen elevations above 90 feet mean sea level (msl). Intermediate wells are defined as wells with bottom-of-screen elevations beween 70 and 90 feet msl. Deep wells are defined as wells with bottom-of-screen elevations below 70 feet msl.

amec	THIRD QUARTER 2014 MONITORING EVENT (SEPTEMBER 2014) GROUNDWATER ELEVATION CROSS-SECTION B-B' Former J.H. Baxter and Co. Wood Treating Facility Arlington, Washington	Prepared By: LCD 10/15/14	Project No. 12706 Figure No. 2

P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Water_Fluctuations O&M.grf



Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

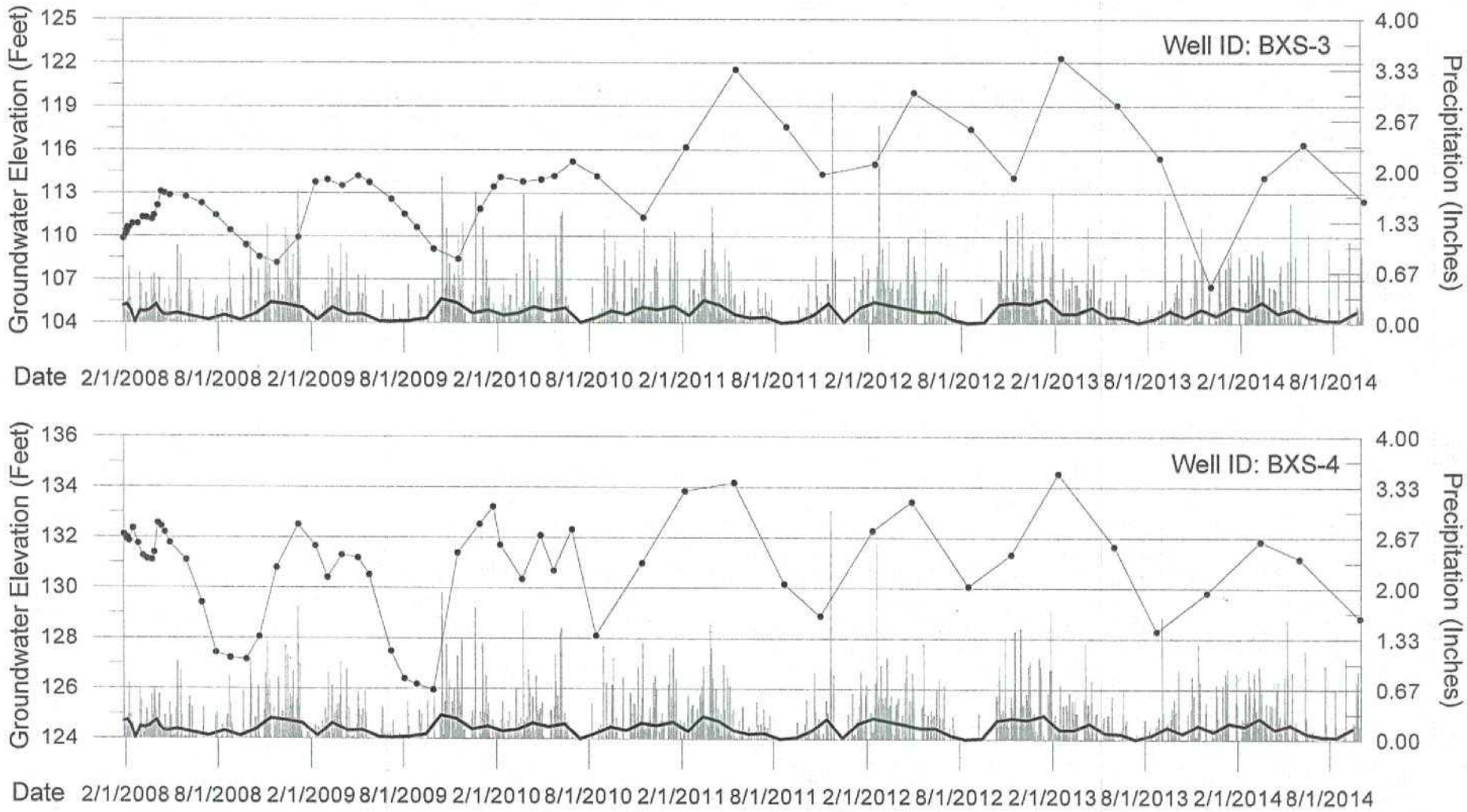
LEGEND
- Groundwater elevation time series
- Daily Precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS BXS-1 AND BXS-2
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 3

P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Water_Fluctuations O&M.grf



Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS BXS-3 AND BXS-4
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 4

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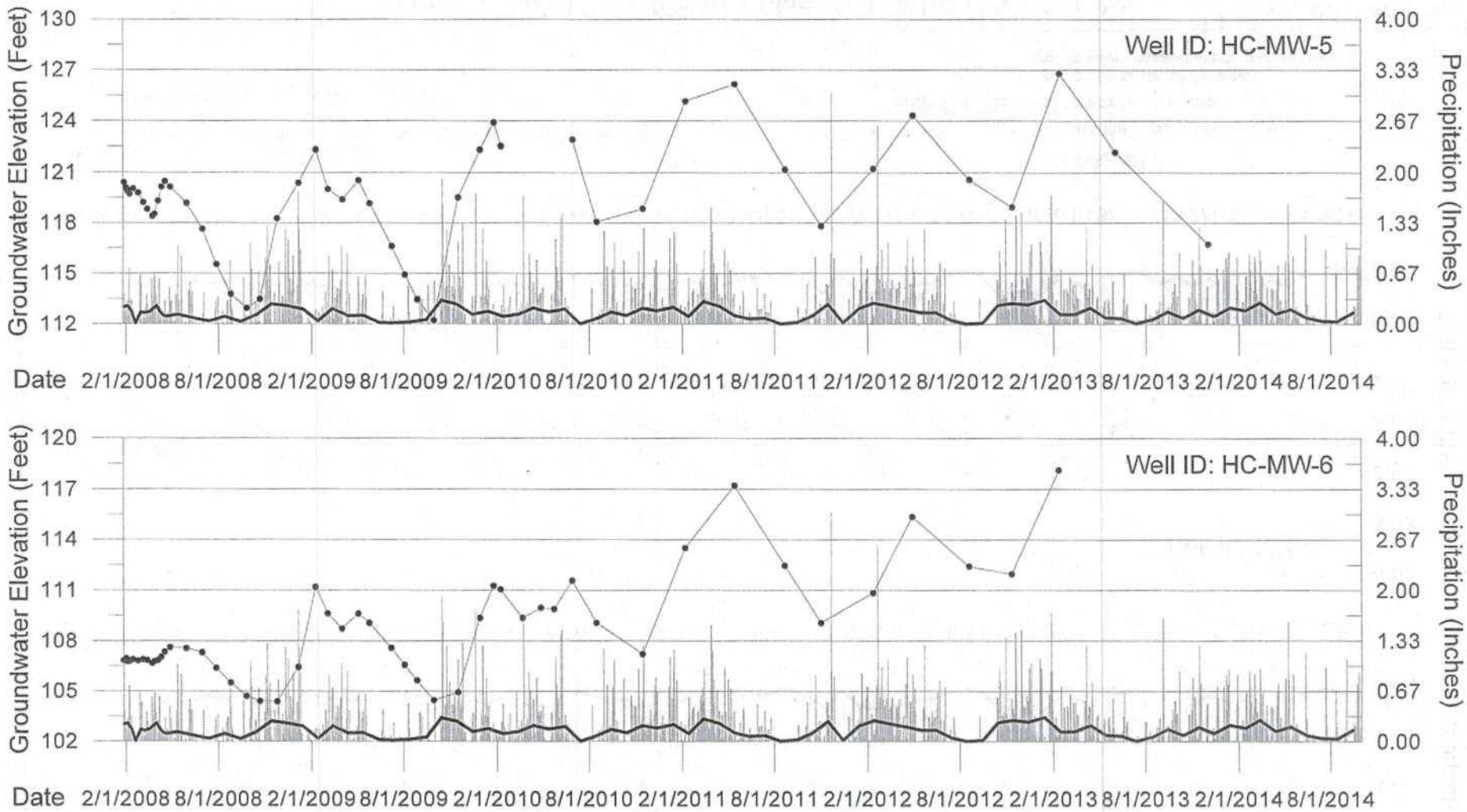

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. Groundwater elevation was not collected at HC-MW-5 during the March and April 2010 sampling period due to damaged well monument lid that could not be opened.This well was also not measured in 1st Quarter 2014.
5. Groundwater elevation was not measured at HC-MW-6 after 1st Quarter in 2013.
6. Groundwater elevation was not measured at HC-MW-5 after 4th Quarter in 2013.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS HC-MW-5 AND HC-MW-6
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 5

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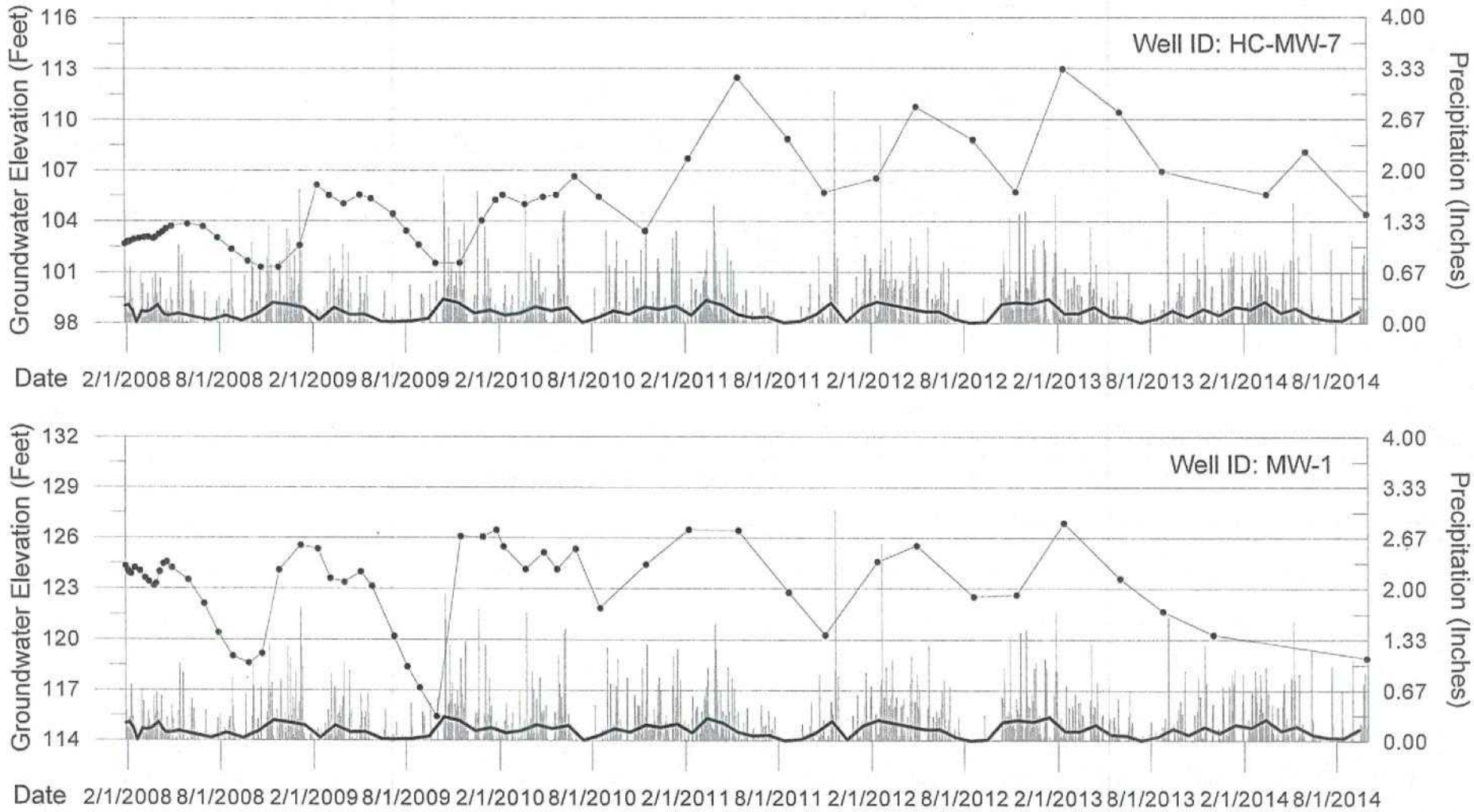

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. MW-1 was not measured 1st or 2nd Quarter in 2014.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS HC-MW-7 AND MW-1
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 6

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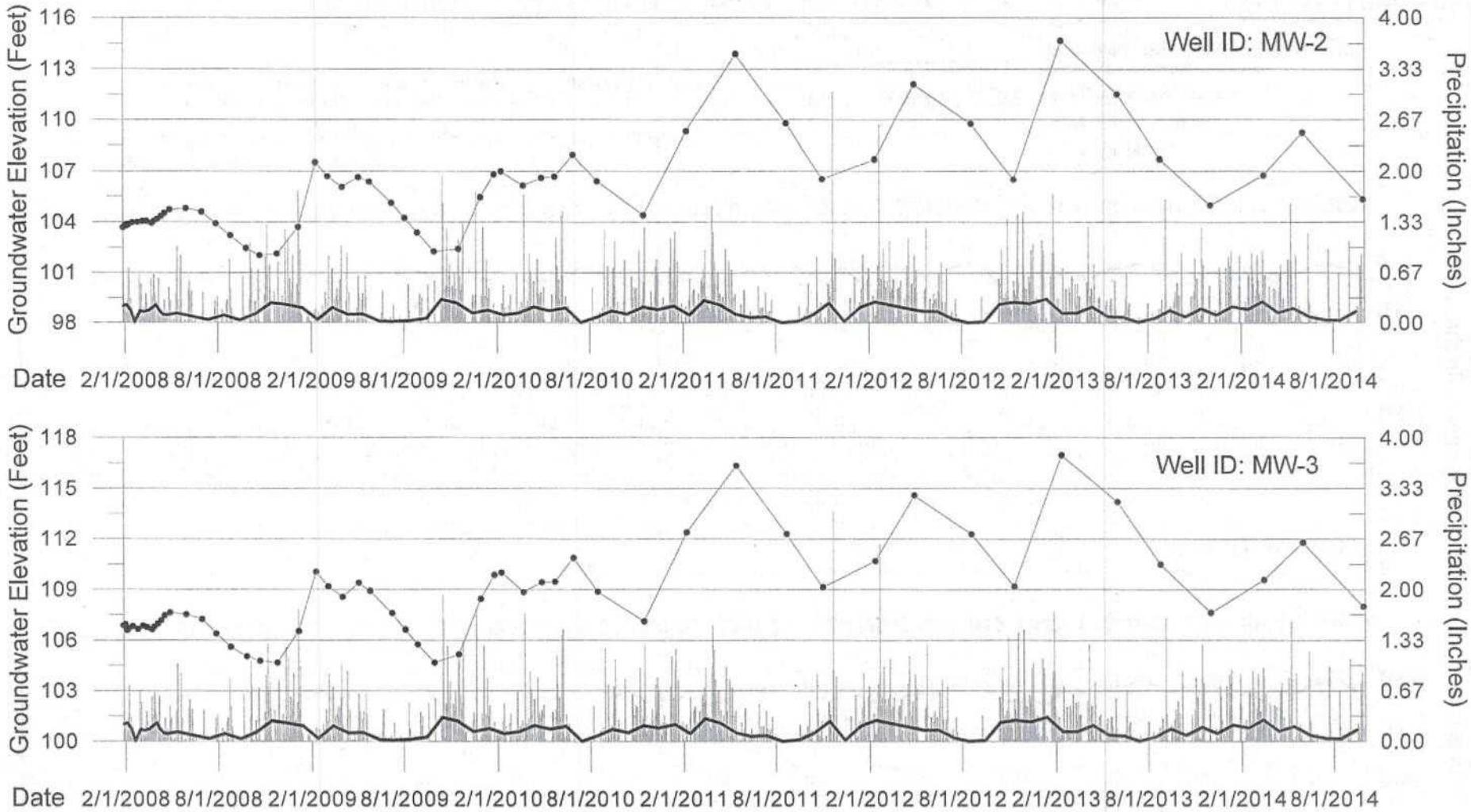


Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

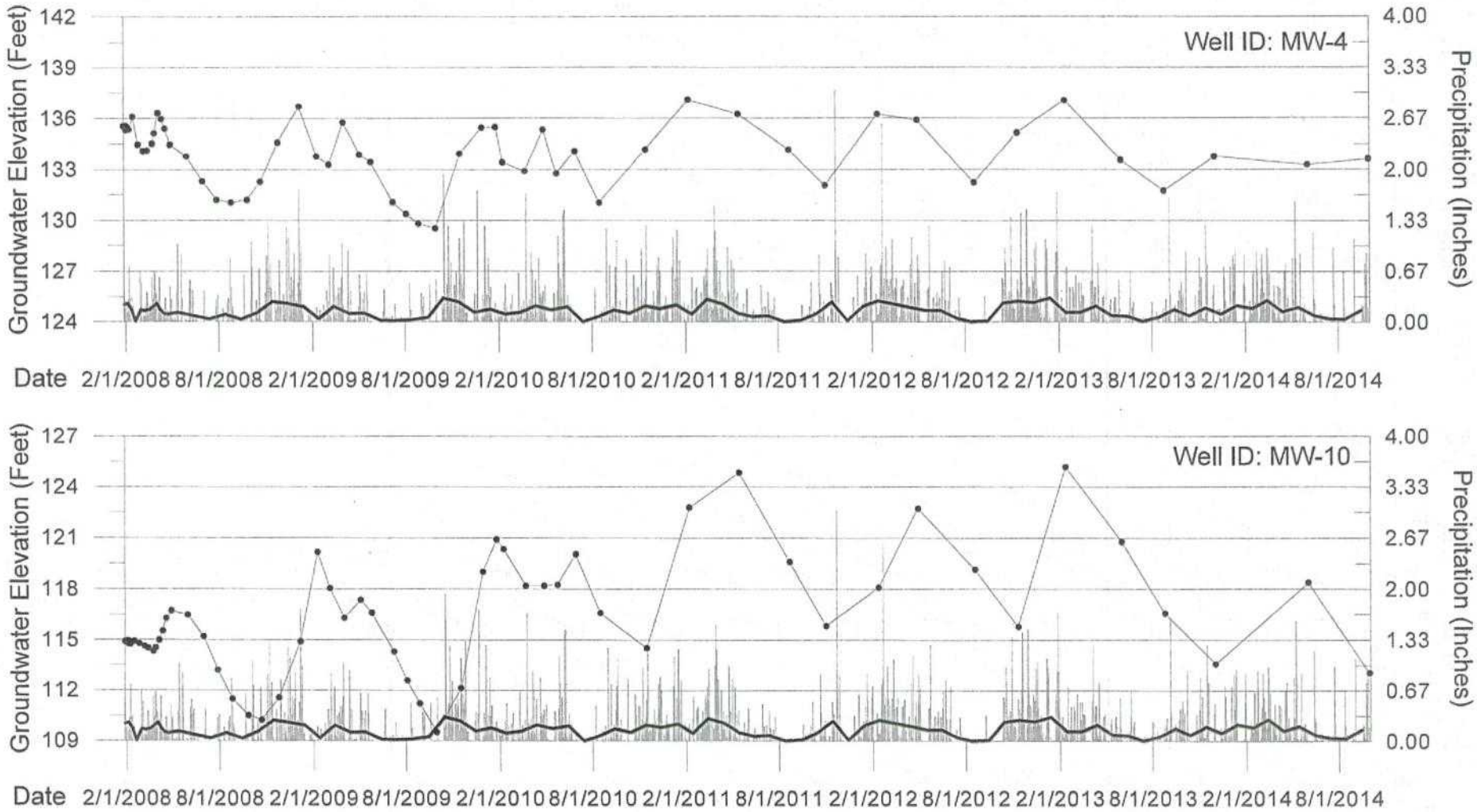
LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-2 AND MW-3
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 7

P:\12706 - JH Baxter Arlington\7000 Remediation\Performance Monitoring\Water_Fluctuations O&M.grf



Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. MW-4 and MW-10 were not measured during 1st Quarter 2014.

LEGEND
- Precipitation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-4 AND MW-10
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 8

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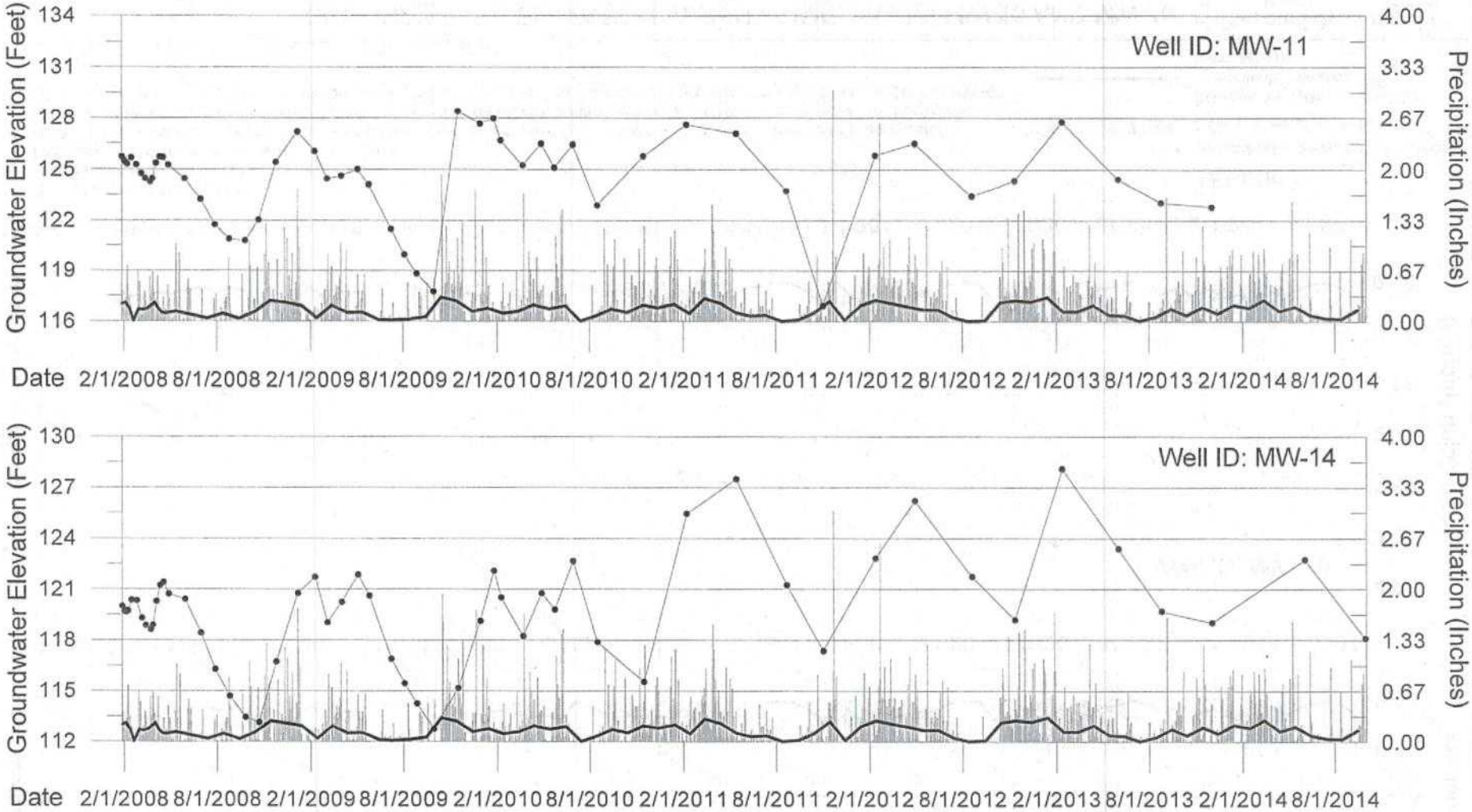

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. MW-11 was not measured after 4th Quarter 2013.
5. MW-14 was not measured during the 1st Quarter 2014.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-11 AND MW-14
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 9

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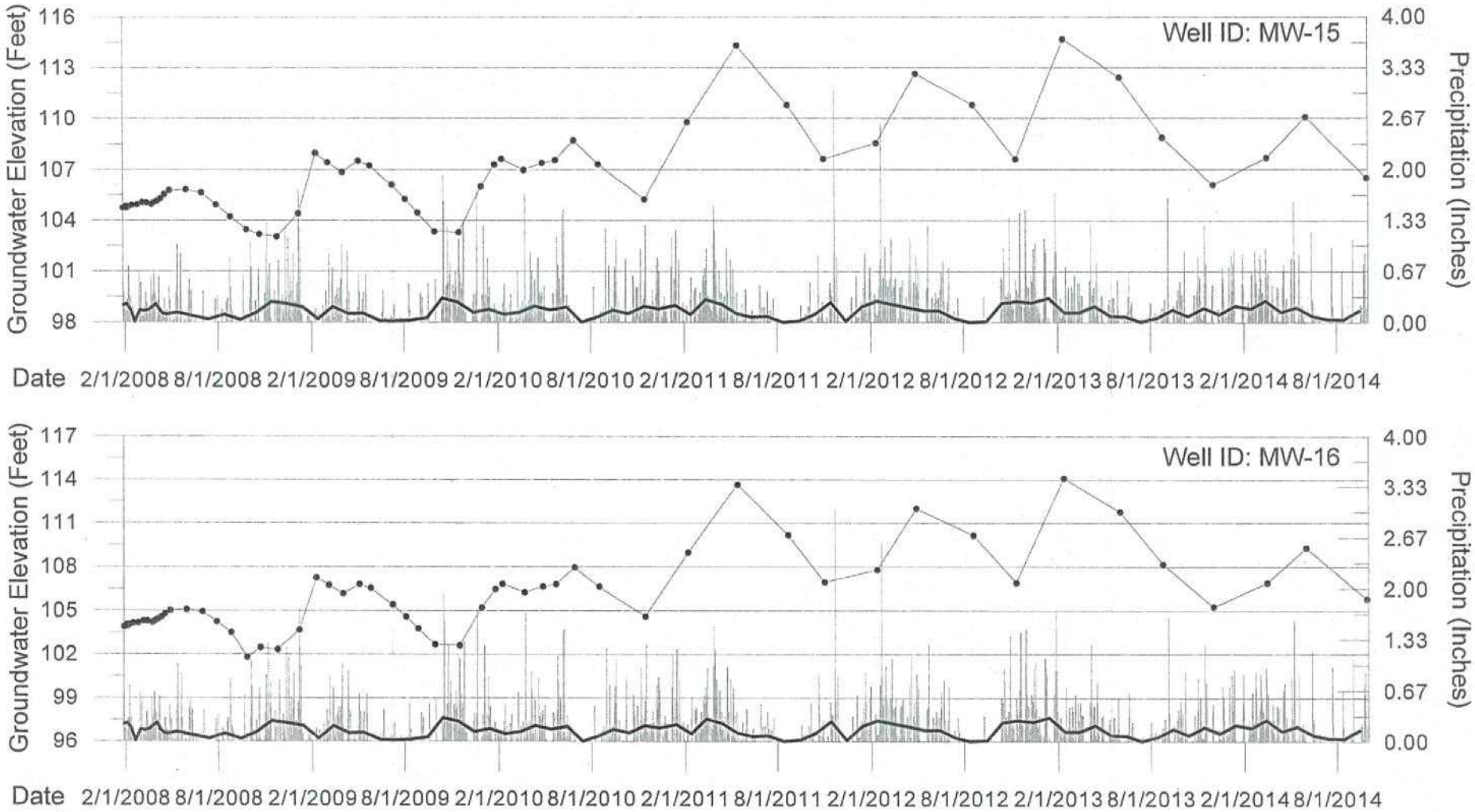

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. In May 2011, a suspected incorrect depth to water measurement occurred at MW-15. The 2nd Quarter 2011 groundwater elevation at MW-15 was estimated by calculating the average elevation difference between MW-15 and MW-40 for the 3rd Quarter 2010 through the 1st Quarter 2011 and adding this difference to the 2nd Quarter 2011 groundwater elevation measured at MW-40.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-15 AND MW-16
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 10

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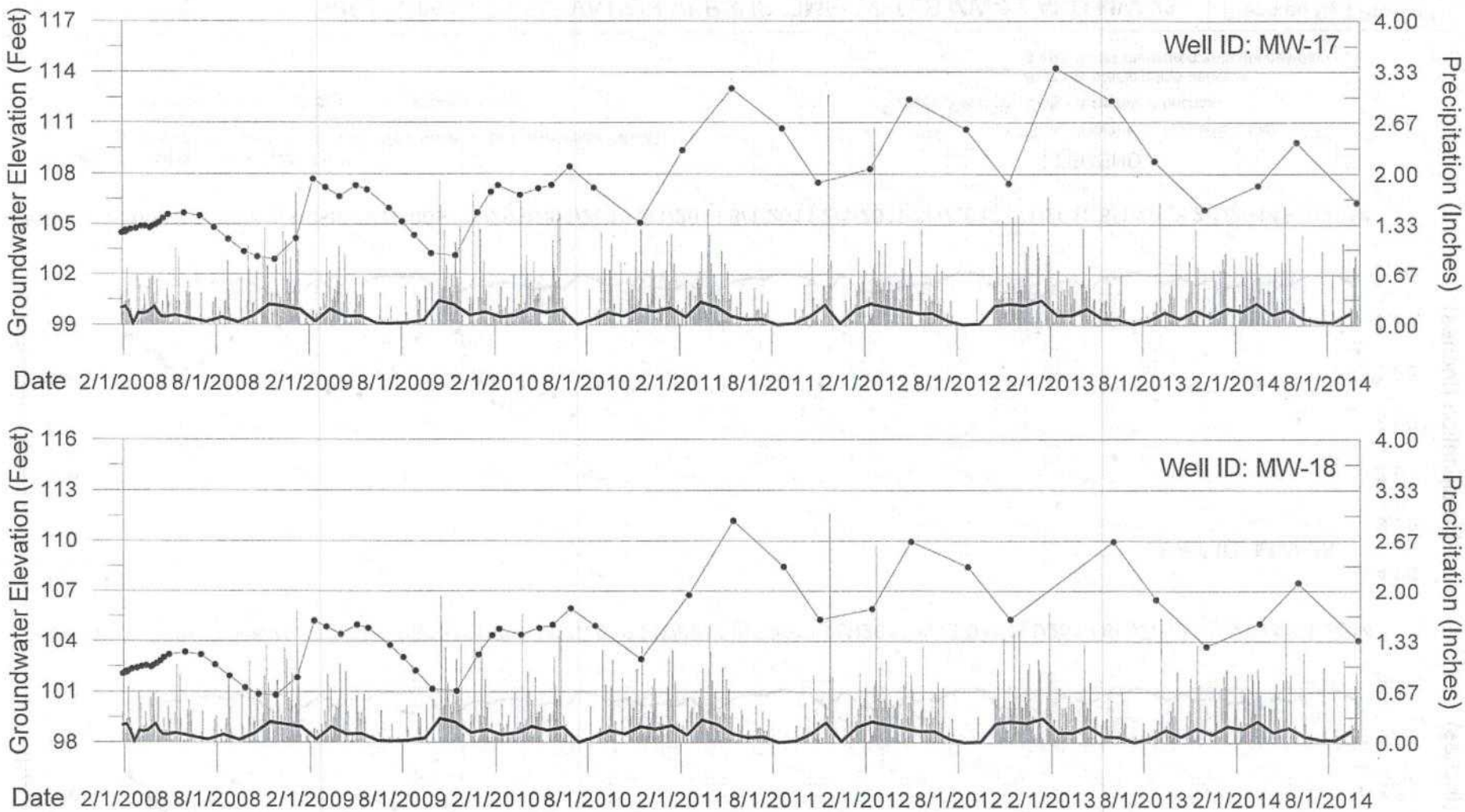

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-17 AND MW-18
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 11

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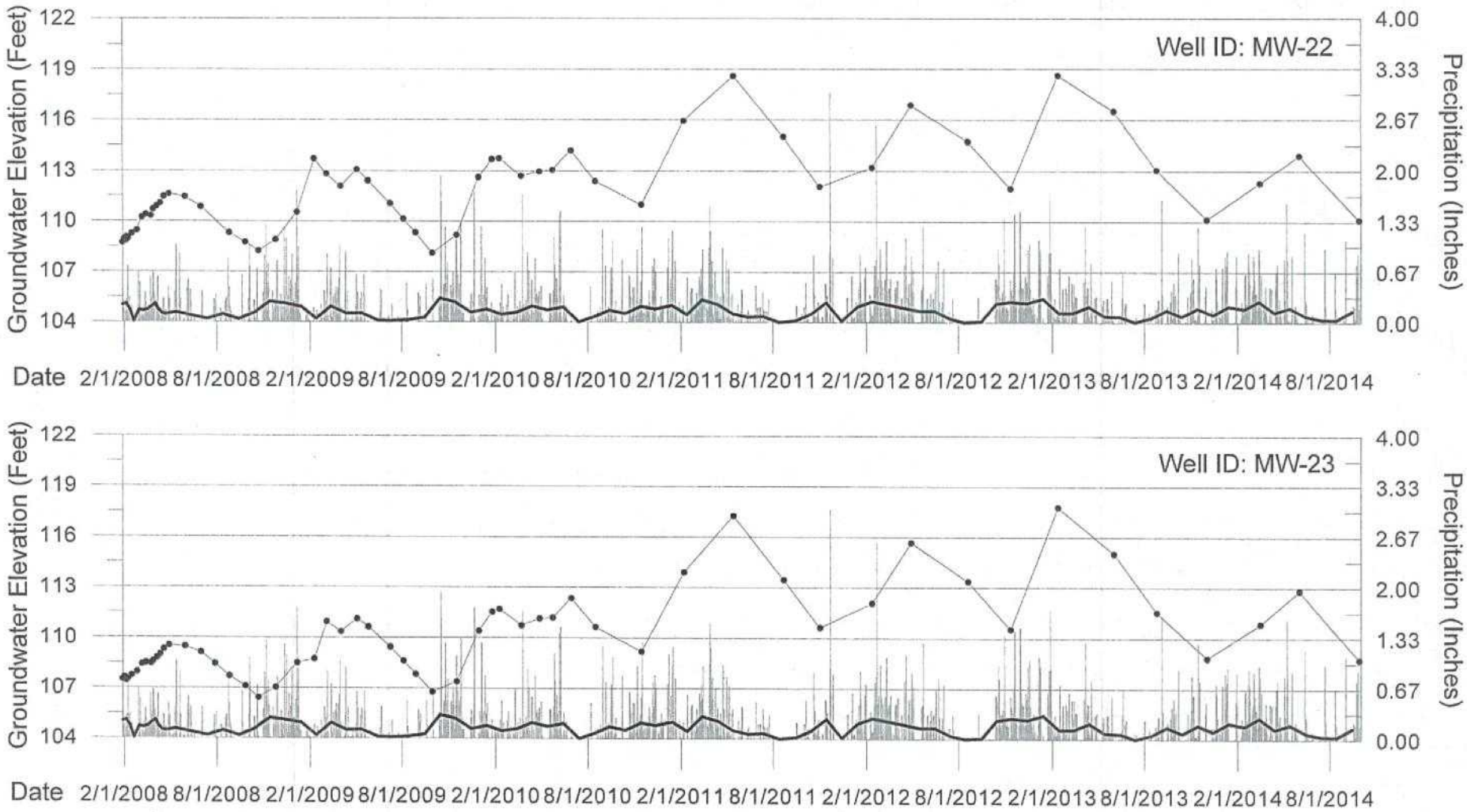

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-22 AND MW-23
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 12

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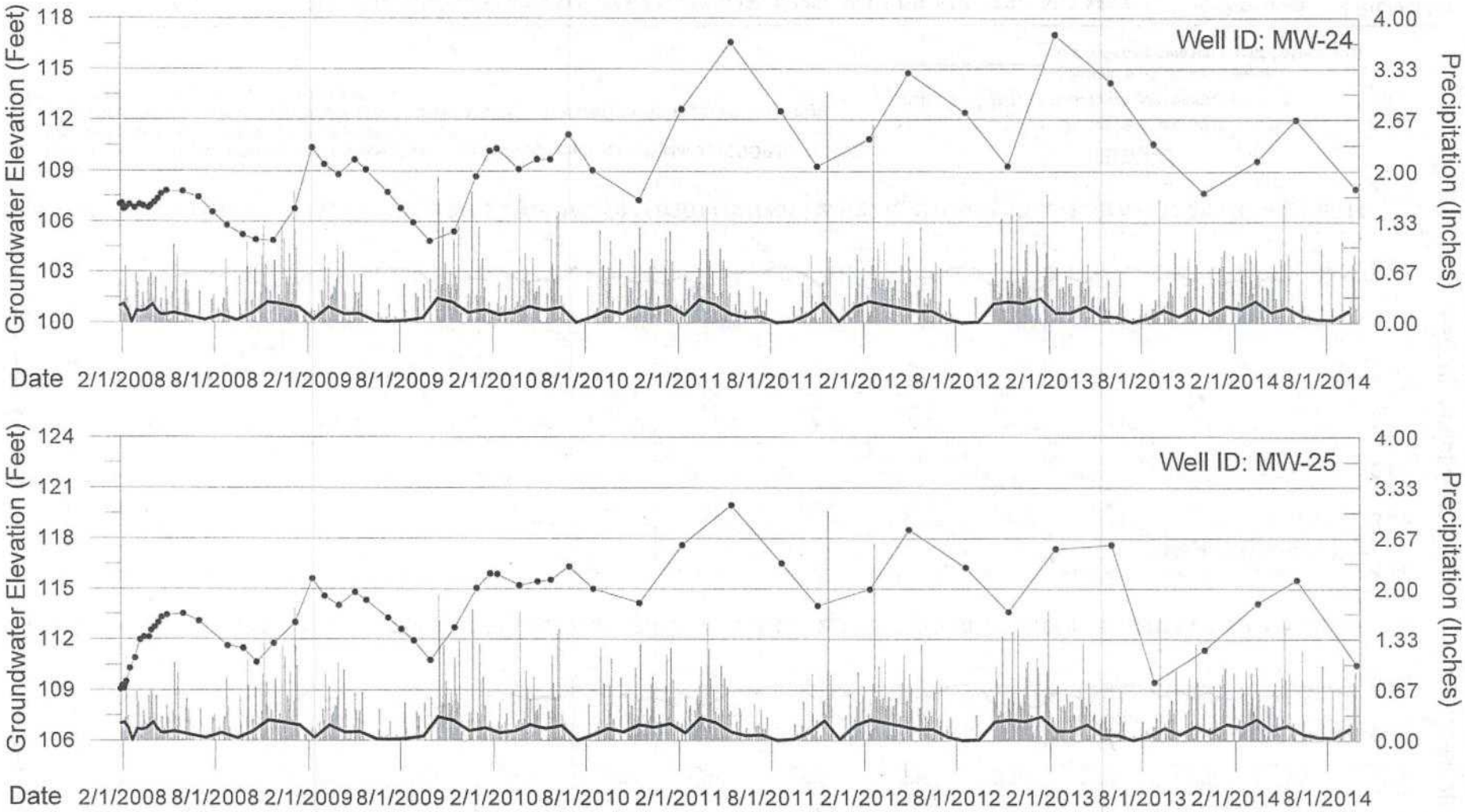

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-24 AND MW-25
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 13

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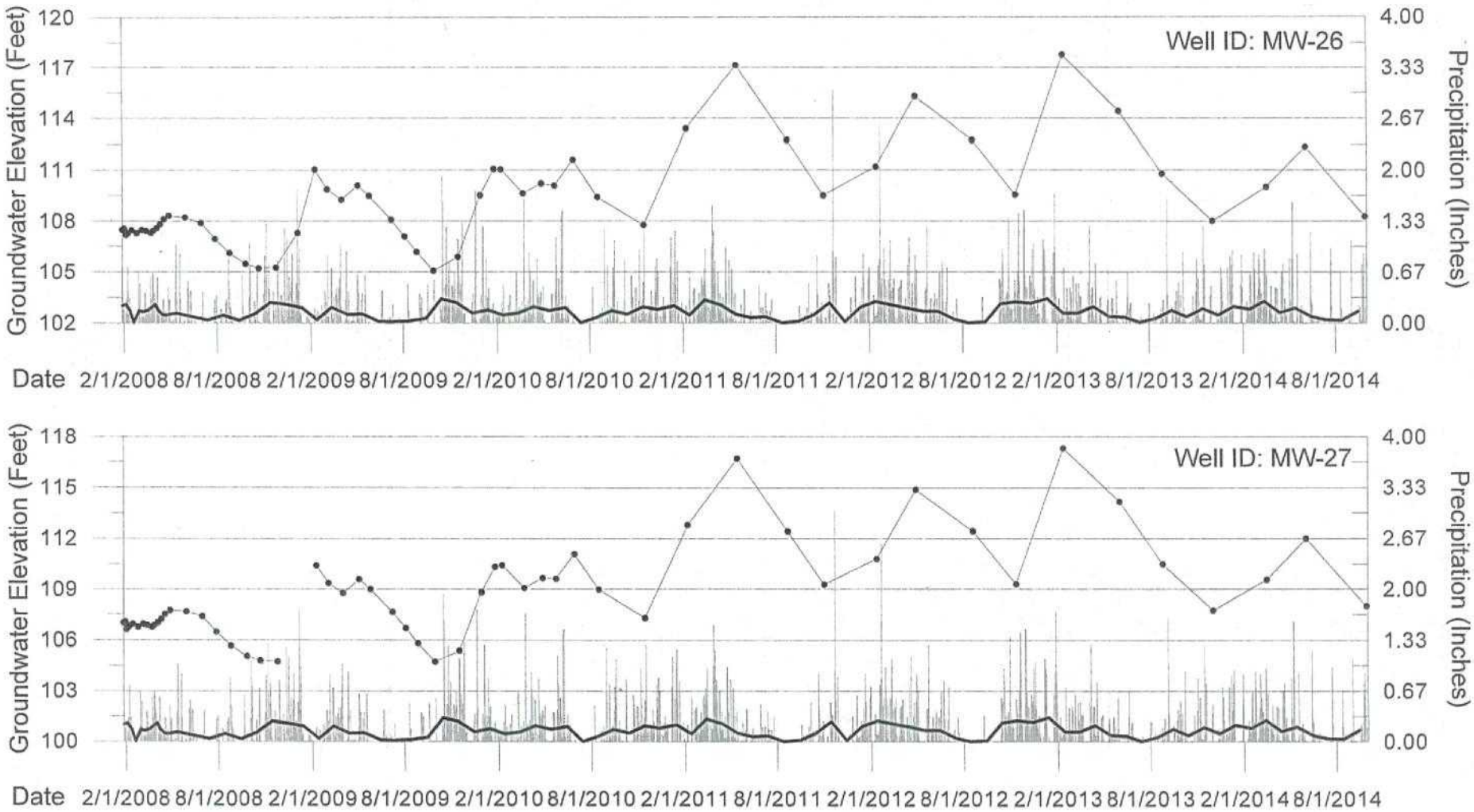

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.
4. Groundwater elevation was not collected at MW-27 during the December 2008 sampling period due to high surface water conditions surrounding the well.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-26 AND MW-27
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 14

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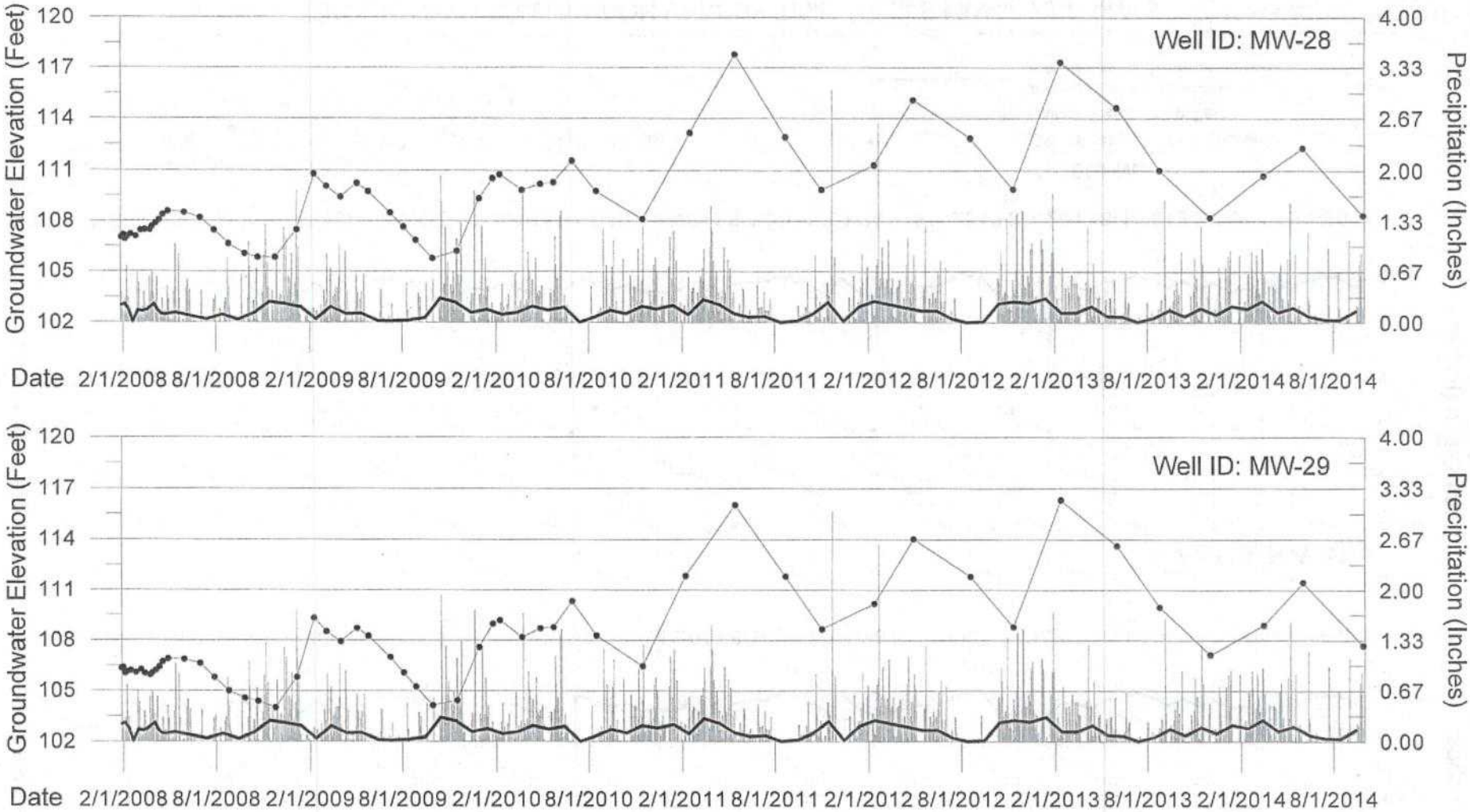

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND

- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-28 AND MW-29
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 15

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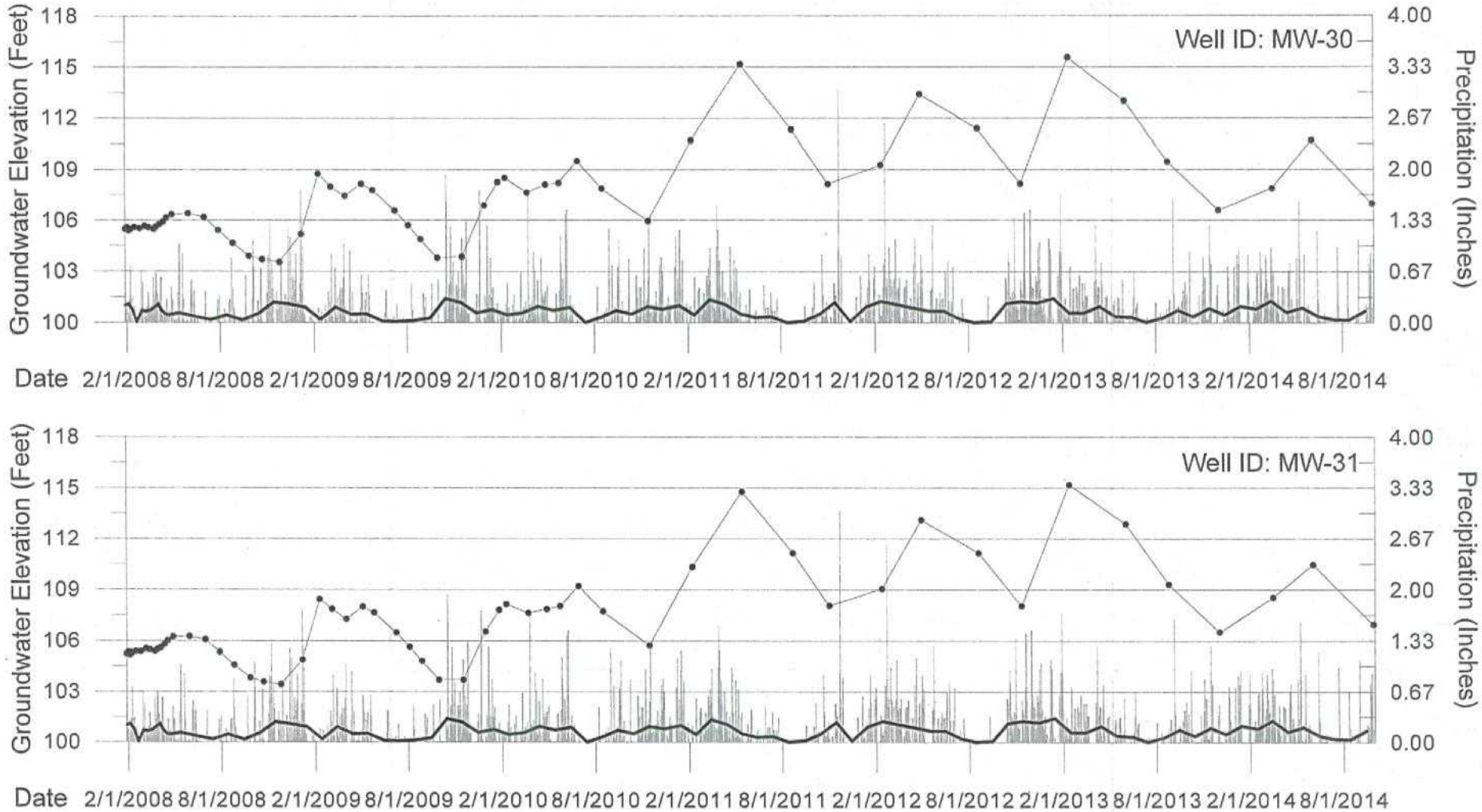

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND

- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-30 AND MW-31
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 16

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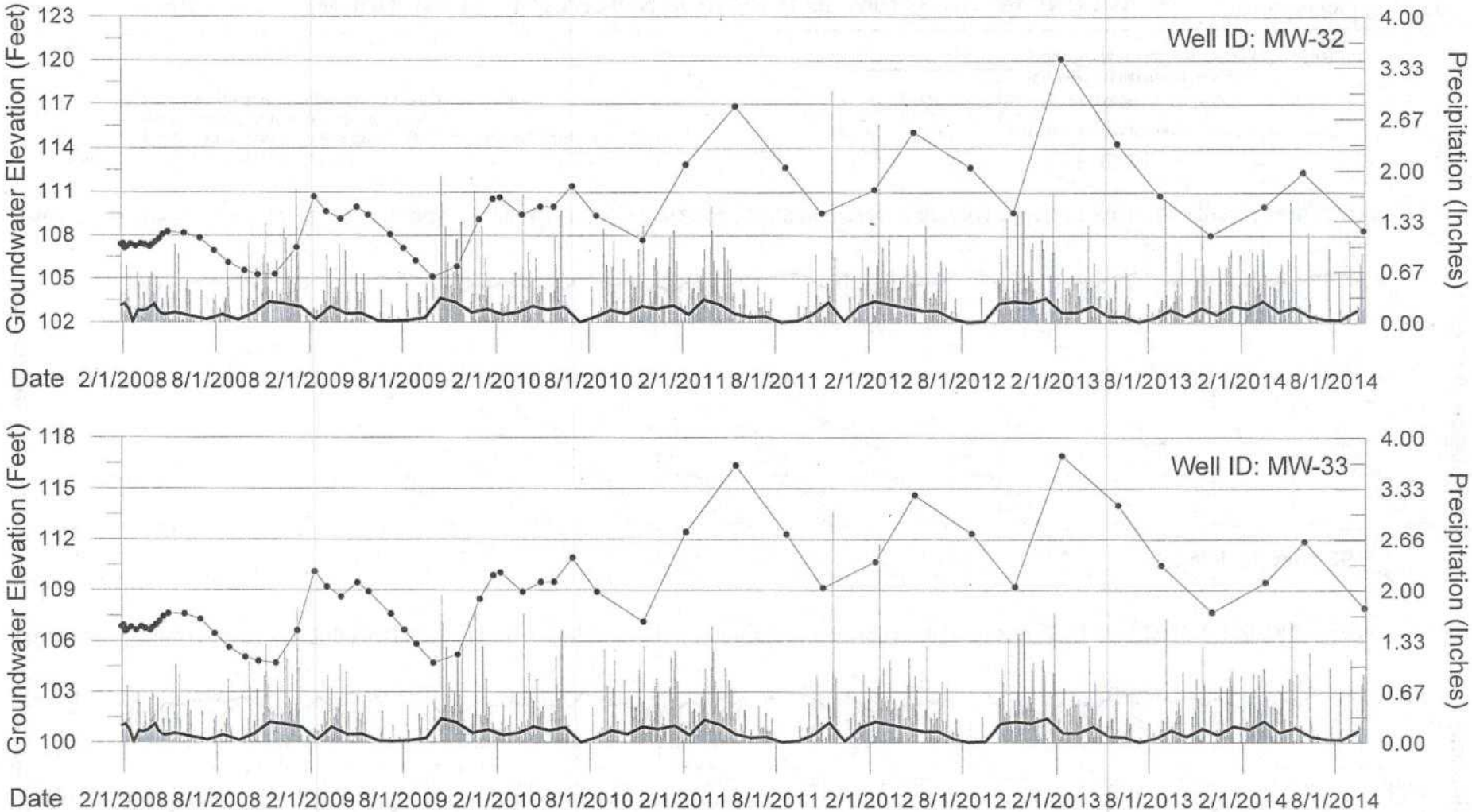

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND

- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-32 AND MW-33
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 17

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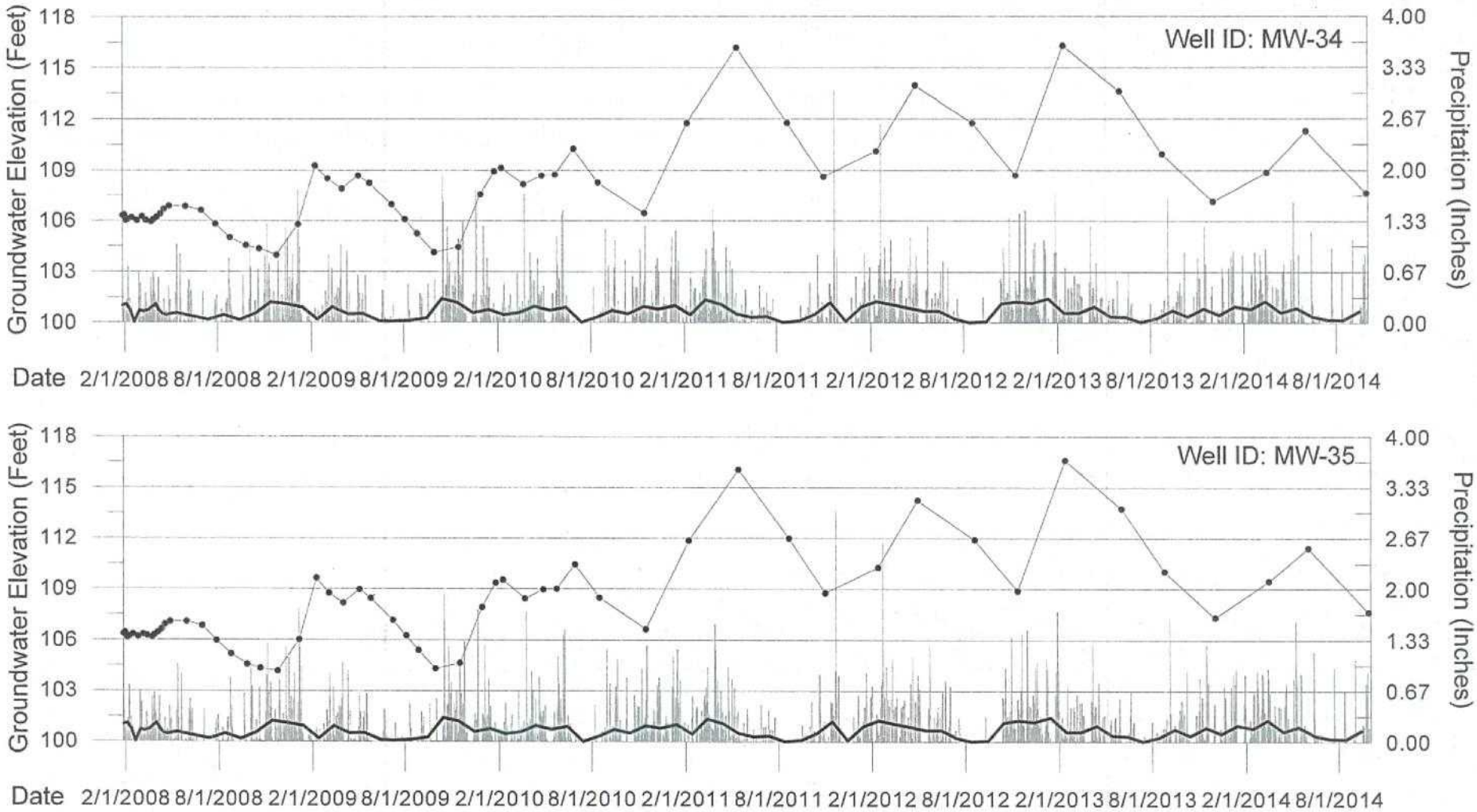

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipitation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-34 AND MW-35
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 18

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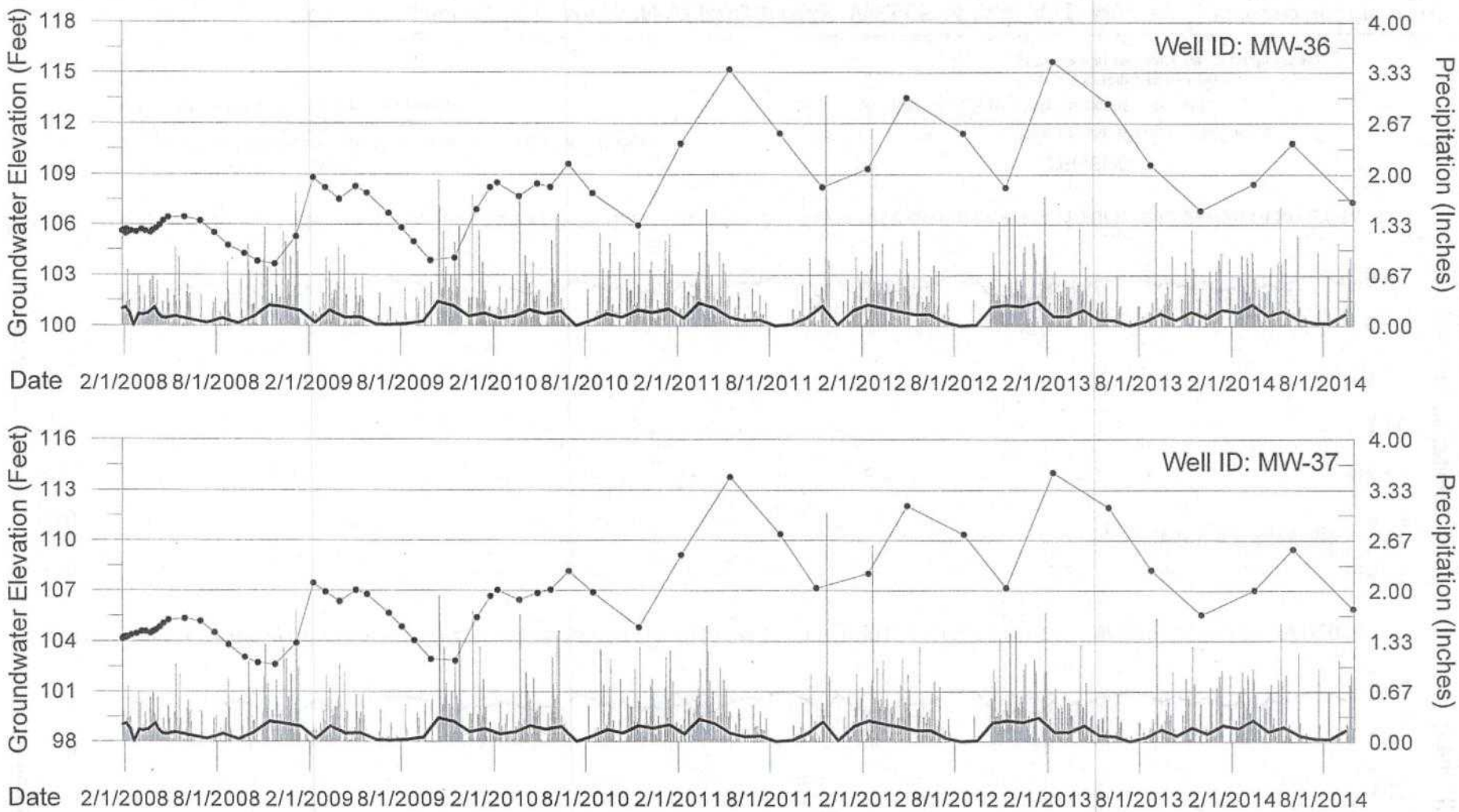

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-36 AND MW-37
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 19

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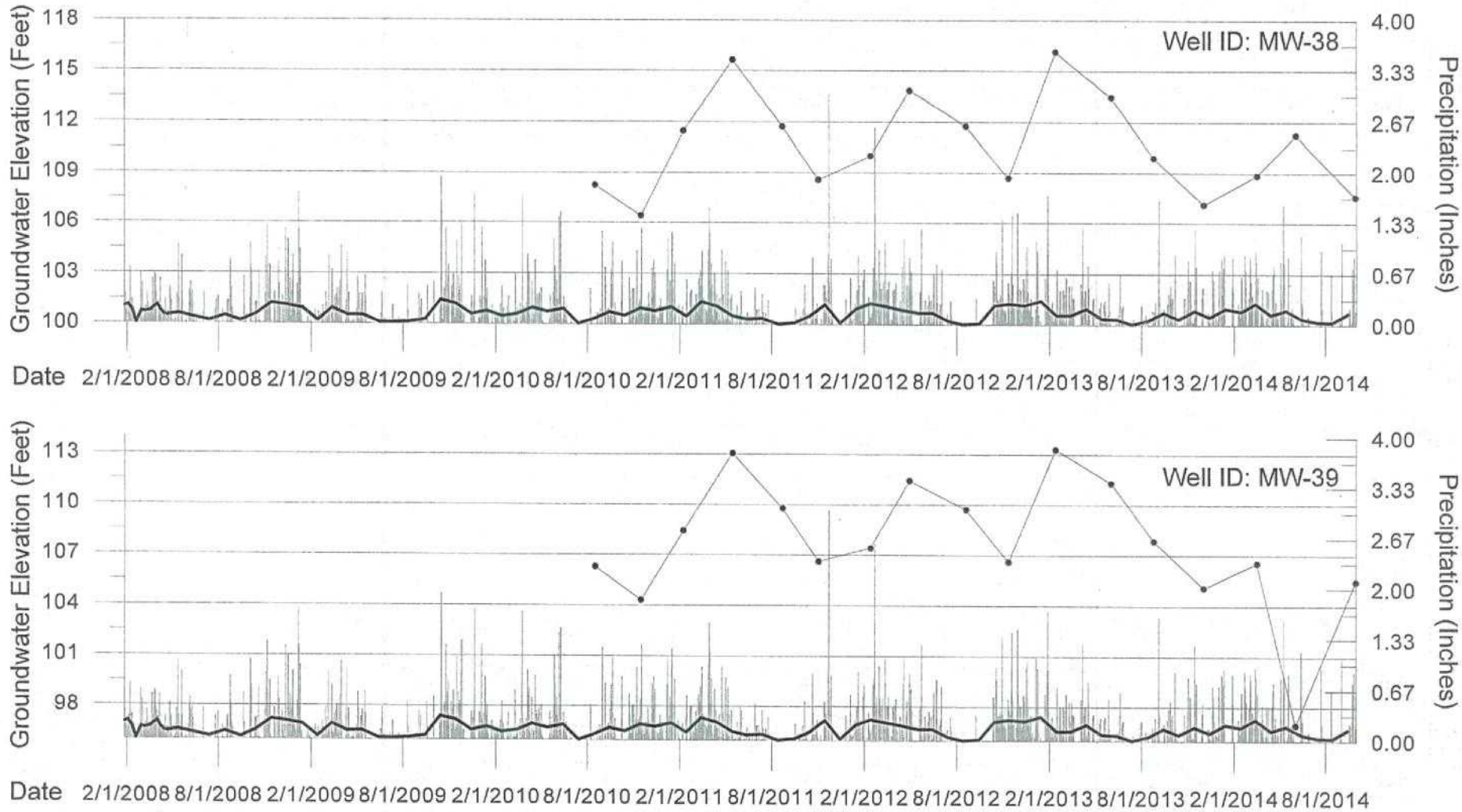

Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-38 AND MW-39
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 20

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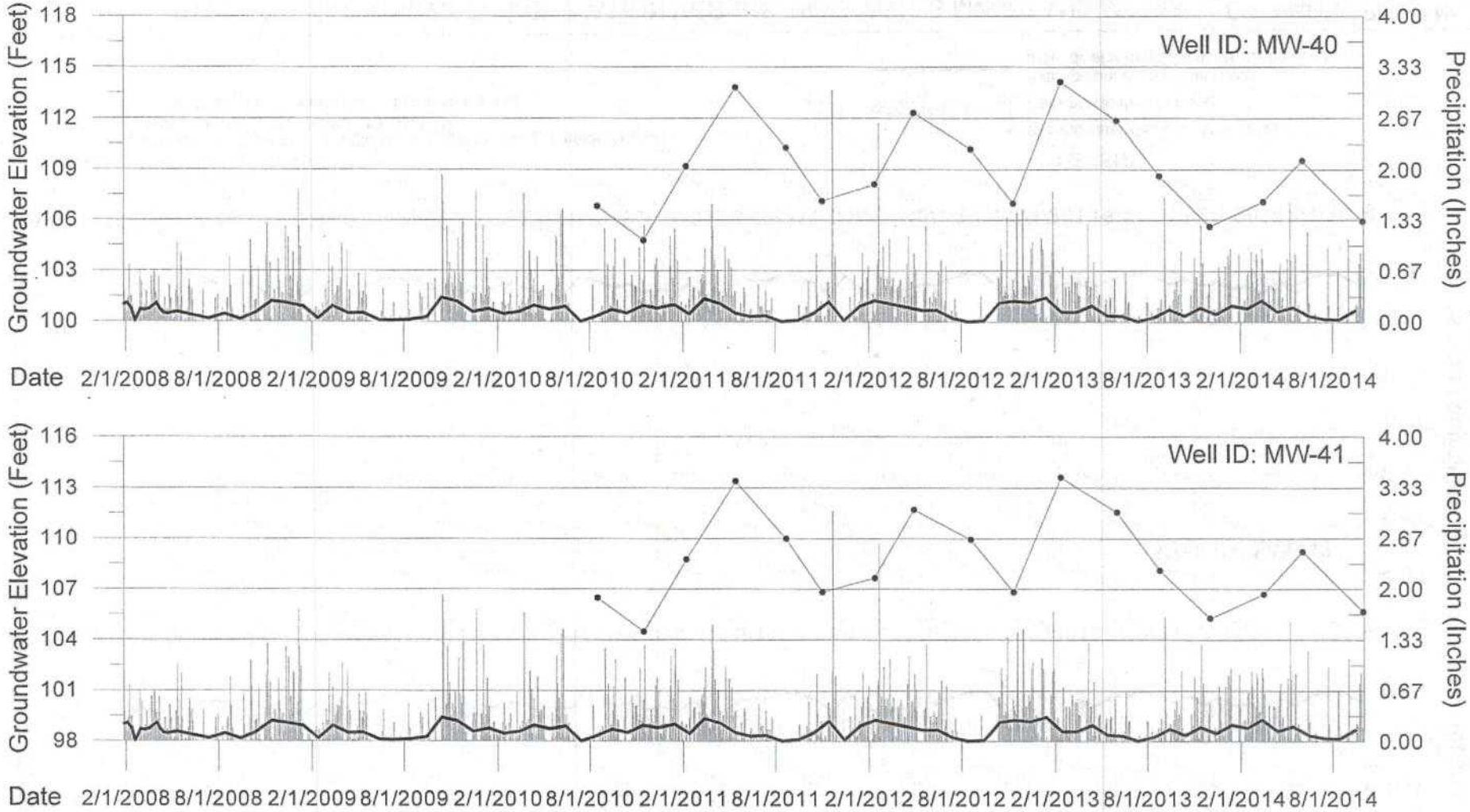

Notes:
1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-40 AND MW-41
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 21

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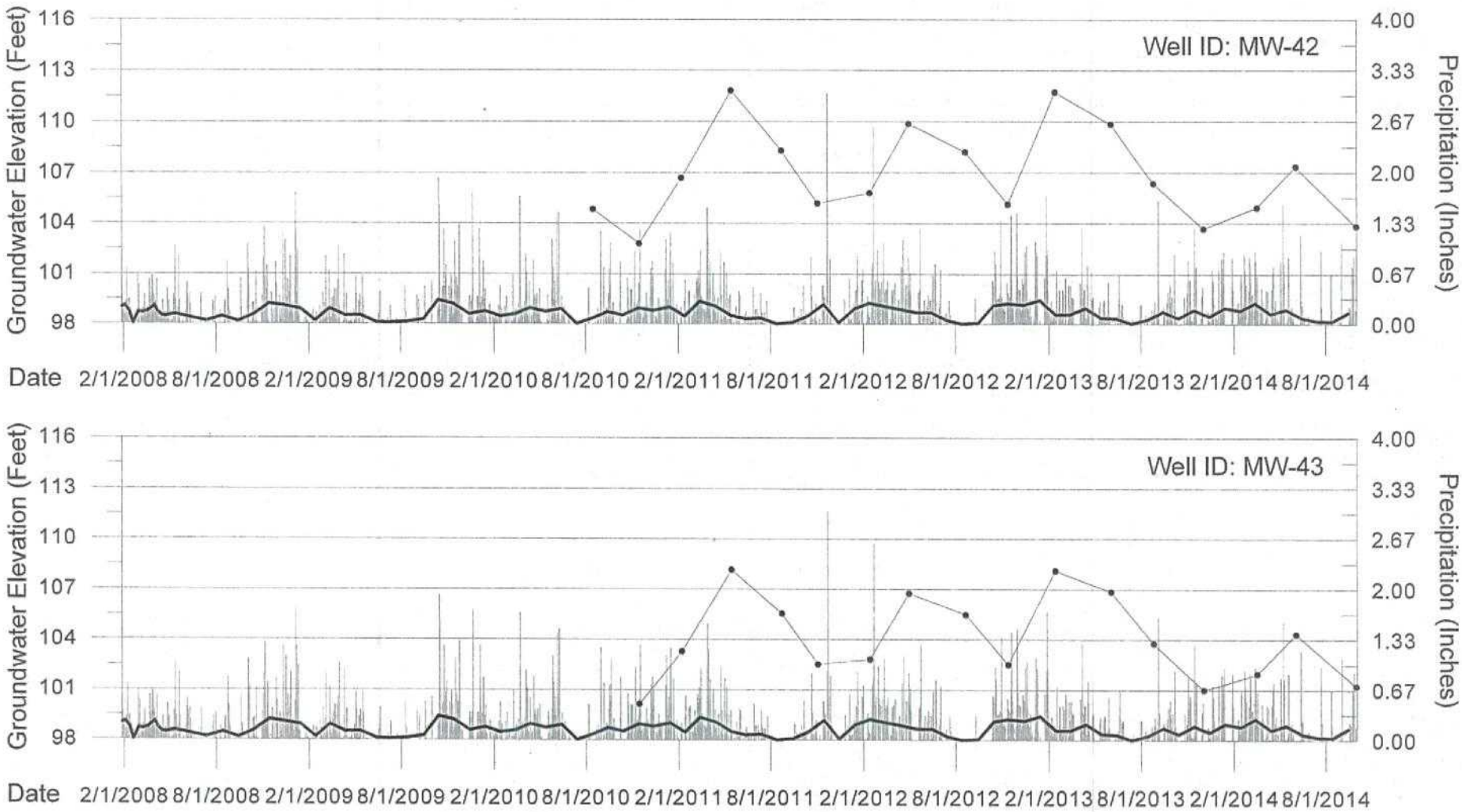


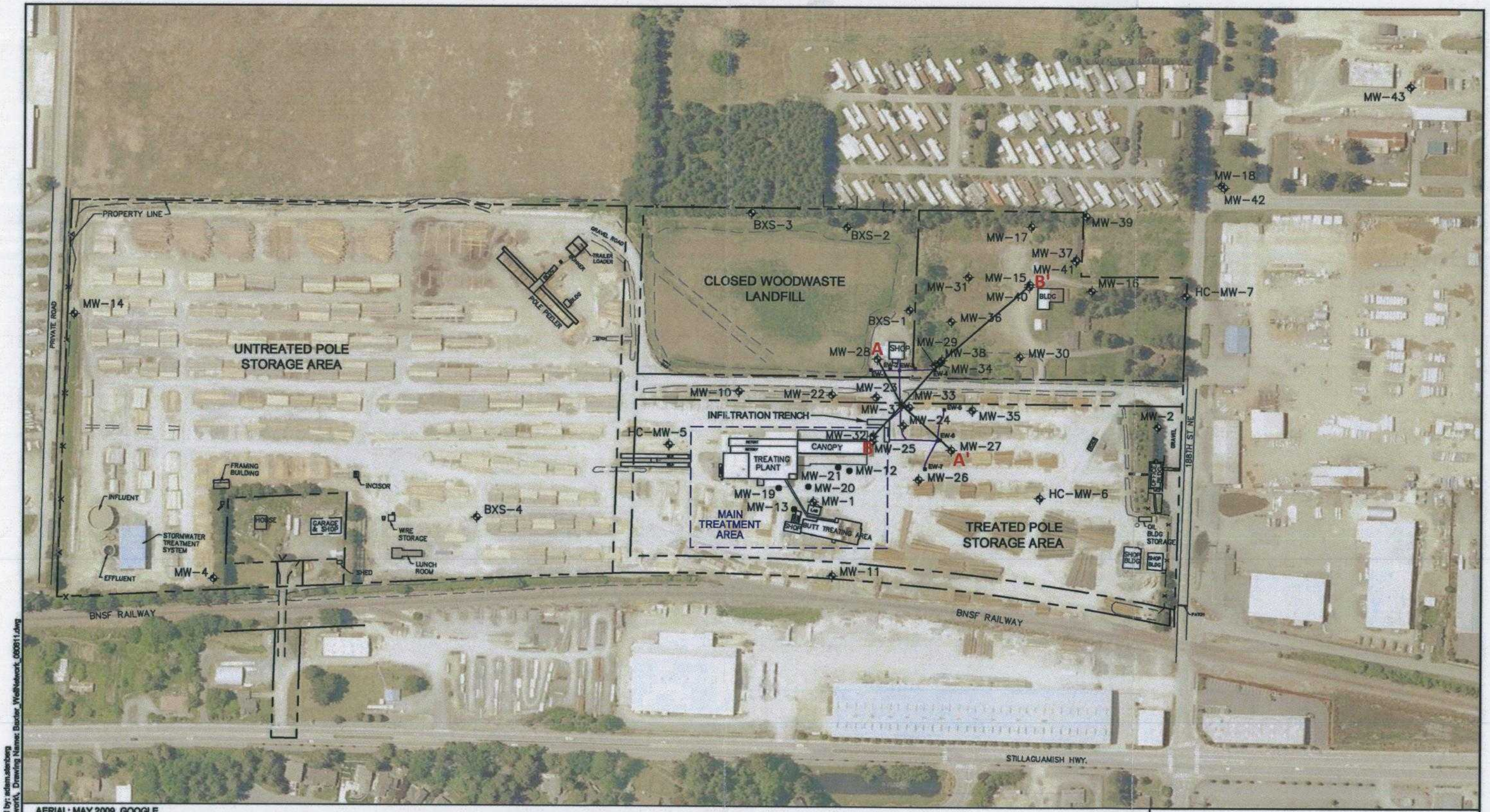
Notes: 1. Vertical datum is N.A.V.D 88.
2. Precipitation data source is the National Climatic Data Center (NCDC) Arlington, WA station (COOP ID: 450257).
3. Precipitation data include rain and/or melted snow.

LEGEND
- Groundwater elevation time series
- Daily precipation (inches)
- Average precipitation between groundwater measurements (inches/day)

amec

GROUNDWATER ELEVATION VERSUS TIME: WELLS MW-42 AND MW-43
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

Prepared By: KJK	Project No. 12706
11/18/14	Figure No. 22



AERIAL: MAY 2009, GOOGLE

LEGEND

MW-1	MONITORING WELL
MW-12	LNAPL RECOVERY WELL
EW-1	EXTRACTION WELL AND VAULT IDENTIFYING NUMBER
— — —	APPROXIMATE SITE BOUNDARY
—	LAYOUT OF GROUNDWATER RECIRCULATION PIPING

0 110 220
APPROXIMATE SCALE IN FEET

GROUNDWATER MONITORING NETWORK
Former J.H. Baxter and Co. Wood Treating Facility
Arlington, Washington

By: APS	Date: 08/08/11	Project No. 0127060010
amec		Figure 23

Plot Date: 08/08/11 - 2:59pm, Plotted by: adam.sterberg
Drawing Path: S:\127060\014_WellNetwork\, Drawing Name: Baxter_WellNetwork_080811.dwg