LANDAU ASSOCIATES

January 16, 2017

Washington State Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, WA 98008-5452

Attn: Robin Harrover

Transmitted via email to: *rharrover461@ecy.wa.gov*

Re: Status Report No. 57, October through December 2016 Activity Period
Boeing Auburn Facility
WAD 041337130, RCRA Corrective Action Agreed Order No. 01HWTRNR-3345
Auburn, Washington
Project No.0025164.130.501

Dear Ms. Harrover:

The Resource Conservation and Recovery Act (RCRA) Corrective Action Agreed Order (Auburn Agreed Order) became effective on August 14, 2002. As required under Section VI.13 of the Auburn Agreed Order, The Boeing Company (Boeing) is providing Status Report No. 57, which covers the 3-month activity period of October through December 2016.

References

1. October 6, 2016. Email: For Review by October 10. From Thea Levkovitz, Washington State Department of Ecology (Ecology), to representatives of Boeing, the cities of Algona and Auburn, and Landau Associates, Inc. (LAI). Attachment: Draft Boeing Auburn site postcard about upcoming remedial investigation public comment.
2. October 10, 2016. Email: For Review by October 10. From Megan Hilfer, Boeing, to Thea Levkovitz, Ecology. Attachment: Boeing and LAI Edits on the Boeing Auburn site postcard.
3. October 11, 2016. Email: Some follow-up from ECY. From Neal Hines, Ecology, to James Bet, Boeing and Jennifer Wynkoop, LAI. Attachment: Spreadsheet of Neal's calculations for estimating mass of trichloroethene (TCE).
4. October 14, 2016. Letter: Status Report No. 56, July Through October 2016 Activity Period, Boeing Auburn Facility, WAD 041337130, RCRA Corrective Action Agreed Order No. 01HWTRNR-3345. From Jennifer Wynkoop, LAI, to Robin Harrover, Ecology.
5. October 17, 2016. Email: Translation for Air testing location map. From Thea Levkovitz, Ecology, to Jennifer Wynkoop, LAI.
6. October 18, 2016. Ecology Listserv (Boeing Fabrication Auburn Site): Coming in Early 2017 – Your comments needed on Remedial Investigation.

7. October 20, 2016. Email: EIM Submission Email – Study ID FS2018 – The Boeing Company, Auburn Fabrication Division Plant. From Erica Fot, Ecology, to Beth Roberts and Jennifer Wynkoop, LAI.
8. October 20, 2016. Email: Spanish Translation. From Jennifer Wynkoop, LAI, to Thea Levkovitz, Ecology. Attachment: Commercial/Industrial Vapor Intrusion Figure with legend translated into Spanish.
9. November 2, 2016. Ecology Listserv (Boeing Fabrication Auburn Site): Watch Video update on the Boeing Auburn Contaminated Groundwater Investigation.
10. November 7, 2016. Letter: Passive Diffusion Sampling Comparison – June 2016, Boeing Auburn Facility. From Sarah Fees and Jennifer Wynkoop, LAI, to Neal Hines and Robin Harrover, Ecology.
11. November 9, 2016. Email: Ongoing Algona Pilot Test Monitoring. From Sarah Fees, LAI, to Robin Harrover and Neal Hines, Ecology. Attachment: Planned Algona Pilot Test Monitoring Sample Matrix.
12. November 9, 2016. Letter: Ecology comment regarding the Draft Remedial Investigation Report, Boeing Auburn Facility, Auburn, WA; prepared for the Boeing Company by Landau Associates; August 5, 2016; FS #2018; CS #5049; EPA WAD041337130. From Robin Harrover, Ecology, to James Bet, Boeing.
13. November 10, 2016. Email: Boeing Fabrication Auburn Site, Status Report 56, July through September 2016. From Robin Harrover, Ecology, to representatives of the cities of Auburn, Algona, and Pacific, and Washington State Department of Health (WDOH).
14. November 14, 2016. Email: Re: Ongoing Algona Pilot Test Monitoring. From Robin Harrover, Ecology, to Sarah Fees, LAI, and Neal Hines, Ecology.
15. November 17, 2016. Email: Proposed Sample Matrix. From Jennifer Wynkoop, LAI, to Robin Harrover and Neal Hines, Ecology. Attachment: One-Time Sampling Matrix.
16. November 22, 2016. Email: Proposed Additional 4th Qtr GW Sampling and Analysis. From Robin Harrover, Ecology, to James Bet, Boeing.
17. November 22, 2016. Email: Agenda for Meeting to Discuss Ecology Comments on RI Report. From Sarah Fees, LAI, to Robin Harrover and Neal Hines, Ecology. Attachment: Meeting agenda.
18. November 23, 2016. Email: Ecology comments and approval RE: Passive Diffusion Sampling Comparison – June 2016. From Robin Harrover, Ecology, to Sarah Fees, LAI.
19. November 30, 2016. Meeting at Ecology's Northwest Regional Office (NWRO). Discussion of Ecology comments on RI Report. Attended by Robin Harrover and Neal Hines, Ecology; Steve Tochko and James Bet, Boeing; Sarah Fees, Jennifer Wynkoop, and Eric Weber, LAI.
20. December 2, 2016. Email: Meeting Notes – RI Comments Discussion Nov. 30. From Sarah Fees, LAI, to Robin Harrover and Neal Hines, Ecology. Attachment: Meeting Notes from Nov. 30.
21. December 7, 2016. Teleconference: Discussion of remaining Ecology comments on RI Report. Attended by Robin Harrover and Neal Hines, Ecology; James Bet, Boeing; Sarah Fees and Jennifer Wynkoop, LAI.

Work Conducted

General Site-wide Corrective Action Activities

On October 14, 2016, LAI submitted Status Report No. 56 regarding third quarter 2016 activities to Ecology and other stakeholders[1] for their records (Reference #4).

Ecology project managers, Robin Harrover and Neal Hines, continued to attend regularly scheduled monthly conference calls[2] with Boeing, LAI, and the City of Algona's environmental consultant, ICF. The primary purpose of these calls is to discuss technical aspects of the project scope and schedule, data results, and public outreach. Boeing and Ecology communication personnel also attend these calls. Meeting notes continued to be recorded and distributed by LAI.

Remedial Investigation Report

The draft remedial investigation (RI) report was submitted to Ecology in August 2016. Ecology provided comments on the RI report on November 9, 2017 (Reference # 12). Boeing, LAI, and Ecology met to discuss Ecology's comments on the RI report on November 30, 2016 (Reference #19). In preparation for this meeting, LAI provided an agenda for the meeting referencing specific comments that needed additional discussion (Reference #17). During the meeting not all discussion topics were covered due to time constraints. Following the meeting, LAI provided meeting notes and requested a follow-up conference call to cover the remaining discussion items (Reference #20). Boeing, LAI, and Ecology conducted a follow-up conference call on December 7, 2016 (Reference #21). The final RI report is expected to be submitted with updates based on Ecology comments in the first quarter 2017.

Other Reporting

There are two outstanding supplemental RI reports that are under Ecology's review. Boeing submitted a draft 2015 surface water investigation technical memorandum to Ecology in August 2016. In addition, Boeing submitted a draft report summarizing the results of the Tier II vapor intrusion assessment at the Los Cabos Property in September 2016. Boeing expects to receive comments from Ecology and to finalize both reports in the first quarter 2017.

Groundwater Sampling

Groundwater sampling methodology at 131 sampling locations was converted from low-flow sampling to passive diffusion bag (PDB) sampling in June 2016. In addition, vertical comparison samples were collected with PDBs at four of the sampling locations. Boeing prepared a letter providing a comparison of the June 2016 PDB sampling results to historical low-flow sampling results and provided recommendations for ongoing PDB sampling. The letter was submitted to Ecology on November 7,

[1] A list of stakeholders that receive paper copies of the quarterly status reports are listed at the end of this document. Ecology also forwards quarterly status reports via email to representative of the cities of Algona, Auburn, and Pacific, and WDOH (Reference #13).

[2] The December conference call was cancelled.

2016 (Reference #10). On November 23, 2016, Ecology provided a response letter (Reference #18) that agreed with all of Boeing's recommendations except, Ecology recommended that one well (AGW227) be sampled with low-flow sampling techniques rather than PDB sampling.

Phase VII (i.e., seven) semiannual groundwater sampling took place from November 28 through December 7, 2016. The semiannual groundwater sampling data are provided in Attachment 1. The current monitoring well network is presented on Figure 1-1. A sampling matrix for the December 2016 semiannual sampling event is presented in Table 1-1. A complete summary of analytical results is presented in Table 1-2. Detected compounds are summarized in Table 1-3.

In addition to the semiannual groundwater sampling, Boeing completed one-time RI sampling to address several Ecology comments on the RI report. Boeing provided this one-time sampling matrix to Ecology on November 17, 2016 (Reference #15). Ecology provided comments and approval of the sampling matrix on November 22, 2016 (Reference #16). Boeing completed the one-time RI sampling event on December 12, 2016. The sampling followed the recommended sampling matrix, except for cyanide sampling, which will be delayed until 2017. The one-time sampling results are presented in Table 1-4. Discussion of the results will be included in the RI report.

Algona Enhanced Natural Attenuation Pilot Test

The enhanced natural attenuation pilot test injection began on August 18, 2015 and was completed on September 4, 2015. Approximately 80,000 gallons of electron donor solution was injected into the shallow water-bearing zone. Boeing is performing quarterly post-injection sampling to monitor the effectiveness of the pilot test injection. A summary of the first year of pilot test results will be presented in the Algona Pilot Test annual report and is expected to be submitted to Ecology in the first quarter 2017.

On November 9, 2016, Boeing provided Ecology with recommendations for ongoing pilot test monitoring after evaluation of one year of pilot test groundwater data (Reference #11). This ongoing pilot test monitoring included recommendations for continued quarterly sampling of the pilot test wells. Other recommendations included the addition of one well (AGW244) to the pilot test sampling and removal of acetylene and sulfide analysis. Boeing also proposed one-time total organic carbon (TOC) analyses at two of the injection wells that are not part of the ongoing monitoring to provide further understanding of the longevity and distribution of electron donor at the injection wells. Ecology provided approval of the ongoing pilot test monitoring on November 14, 2016 (Reference #14).

The December 2016 semiannual sampling event was the fifth quarterly sampling event following injection activities. A summary of results from the pilot test monitoring wells is provided in Attachment 2. The pilot test injection and monitoring well locations are presented on Figure 2-1. Pilot test data are summarized in Table 2-1.

The one-time TOC sampling at IW33 and IW35 showed TOC concentrations remain above baseline at both injection wells. TOC concentrations above baseline indicate the presence of electron donor. The TOC concentration at IW33 was 205 milligrams per liter (mg/L) and at IW35 was 16.3 mg/L compared to baseline values of 7.4 mg/L and 7.2 mg/L, respectively.

Post injection data has indicated enhanced bioremediation at the three regularly monitored injection wells (IW34, IW36, and IW37) and at five downgradient monitoring wells (AGW269, AGW270, AGW271, AGW240-5, and AGW275). The primary indications of enhanced bioremediation consist of post-injection increases in TOC above baseline (<10 mg/L), evidence of more reduced aquifer redox conditions, and changes in concentrations of TCE, breakdown products, and/or end product. In December 2016, TOC concentrations continued to decrease from post-injection maximums but remained above baseline at the injection wells and at two downgradient monitoring wells (AGW270 and AGW271). TOC at these wells ranged from 10.1 mg/L to 356 mg/L. TOC concentrations at the other monitoring wells (AGW269, AGW240-5, and AGW275) have declined back to baseline results following earlier post-injection increases.

Secondary effects of enhanced bioremediation have been observed at other wells post-injection. These secondary effects consist of increased methane concentrations and shifts in the concentrations of TCE, breakdown products, and/or end products without increases in TOC concentrations. These secondary indicators were observed at downgradient monitoring wells AGW273 starting in December 2016 and AGW274 starting in September 2016.

Changes in vinyl chloride concentrations and detections of end products ethene and/or ethane have been observed at all of the wells with primary indications and secondary effects of enhanced bioremediation listed above. Ethene and ethane, which indicate complete reductive dechlorination, were not detected during baseline sampling at these wells, except at AGW240-5 and AGW274.

Data Management

During the second quarter 2016, Ecology requested that Boeing submit historical Boeing Auburn project data to Ecology's Environmental Information Management (EIM) database. Boeing and Ecology agreed on the timeframe and data range that would be included in the EIM submittal. Boeing submitted the required EIM data on September 27, 2016. Ecology's EIM coordinator reviewed and approved the data. The data was uploaded to the EIM database on October 20, 2016 (Reference #7). Boeing will continue to upload data to the EIM database on an annual basis.

Communications

Ecology posted several update notifications on their website. Website notifications included a notification of the upcoming public comment period for the RI report (Reference #6) and posting a video link to Ecology's update to the Auburn City Council (Reference #9).

Ecology and Boeing are working together to ensure that all stakeholders are aware of the progress of investigation and cleanup activities at the Boeing Auburn site. The City of Algona continues to be notified of all fieldwork occurring in Algona. The City of Algona's consultant, ICF, continues to participate in project conference calls with Boeing and Ecology and continues to review Algona-related deliverables (e.g., work plans and reports). Ecology also has communication conference calls with City of Algona's Mayor Hill. Ecology shares information from these meetings with Boeing by distributing meeting notes and via discussions during project conference calls. Conference calls with the City of Auburn continue to occur quarterly. Regular attendees include representatives from Boeing, LAI, the City of Auburn, and Ecology. Meeting notes continue to be recorded and distributed by LAI.

In September 2016, Ecology provided estimates of TCE mass in groundwater to the cities of Auburn and Algona. Boeing requested calculations for the Ecology TCE mass estimates. Ecology provided these calculations in a spreadsheet on October 11, 2016 (Reference #3).

Ecology requested Boeing's assistance to provide a number of outreach materials. Ecology requested comments from Boeing on a postcard about the upcoming public comment period for the RI on October 6, 2016 (Reference #1). Boeing provided comments on the postcard on October 10, 2016 (Reference #2). Ecology also requested an updated air testing location map in Spanish on October 17, 2016 (Reference #5). Boeing provided this figure on October 20, 2016 (Reference #8).

Building 17-06 Ongoing Monitoring

Boeing is continuing to monitor petroleum hydrocarbons in well AGW128 in Building 17-06. During the third quarter, Boeing conducted dye testing of the hydraulic oil reservoirs on the adjacent mill and monitored the chip conveyance system and well AGW128 for dye. In the fourth quarter, sorbent socks continued to be placed in the well to extract product for evaluating the presence/absence of dye. No dye was noted in the well during the fourth quarter. The well was checked regularly for product thickness until product was no longer measured in the well in November. Boeing will restart product measurements in the spring when the water table begins to decrease.

Occurrence of Problems

None noted.

Projected Work for Next Reporting Period January through March 2017

Activities projected for the next reporting period pertain to the Algona pilot test, reporting, and ongoing monitoring of groundwater and surface water. Tasks during first quarter 2017 are expected to include:

- Prepare a final draft the 2016 RI report based on Ecology comments

- Participate in outreach related to the public comment period for the RI as requested by Ecology
- Finalizing the Los Cabos Tier II vapor intrusion investigation report
- Finalizing the 2015 surface water sampling activities technical memorandum
- Submitting a report on the first year of the Algona pilot test investigation
- Submitting a report on the natural attenuation assessment completed in June 2016
- Submitting time series data related to PDB sampling
- Preparation of the feasibility study work plan
- Conducting the quarterly groundwater sampling event in March 2017.

Other Significant Findings, Changes, and Contacts

None noted.

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If you have any questions regarding this status report, or need any other information, please do not hesitate to contact Jim Bet (206) 679-0433 or me (253) 284-4879.

LANDAU ASSOCIATES, INC.

Jennifer Wynkoop
Senior Associate Scientist

SEF/JWW/jrc
[Y:\025\164\R\QUARTERLY PROGRESS RPTS\2016\4Q16\4Q2016 STATUS RPT NO. 57.DOCX

cc: James Bet, Boeing (email only)
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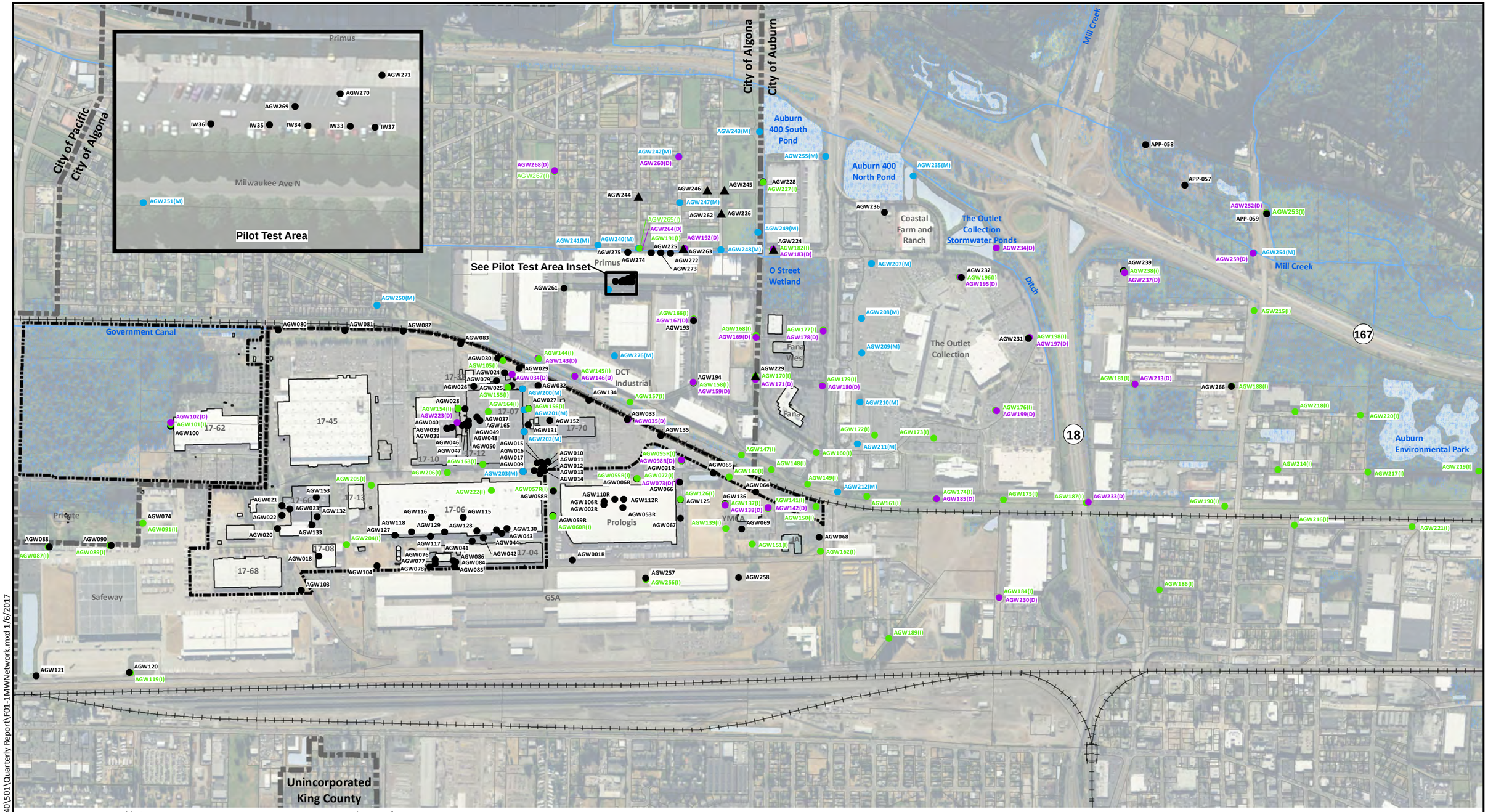
Attachments: Attachment 1: Groundwater Sampling Results
Attachment 2: Pilot Test Results

Attachment 1

Groundwater Sampling Results



Notes

1. Well designations beginning with APP are installed and owned by WSDOT.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- ▲ Offsite Water Table Well
- ● Shallow Monitoring Well (2 to 30 ft BGS)
- (I) ● Intermediate Monitoring Well (40 to 60 ft BGS)
- (D) ● Deep Monitoring Well (80 to 100 ft BGS)
- (M) ● Multi-Level Well
- Wetland Areas
- Water Bodies
- Waterways

N

0 1,000 2,000

Scale in Feet

Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Current Monitoring Well Network

Figure 1-1

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Table 1-1
4Q2016 Groundwater Sampling Matrix
Boeing Auburn Facility
Auburn, Washington

Sample Location	Field Sample ID	Sample Date	Sample Type	Laboratory SDG	Laboratory Sample ID	Sulfate by EPA 300.0	MEE by RSK-175	TOC by SM 5310C	VOCs by SW-846 8260C	VC by SW-846 8260C SIM	Cadmium EPA 200.8	Nickel EPA 200.8	TPH-D NWTPH-Dx	TPH-G NWTPH-Gx
AGW001R	AGW001R-20161130	11/30/2016	PDN	1739706	8724746				X					
AGW001R	AGW905-20161130	11/30/2016	PDFD	1739706	8724747				X					
AGW002R	AGW002R-20161130	11/30/2016	N	1739706	8724740/8724741	X	X	X	X	X				
AGW006R	AGW006R-20161130	11/30/2016	PDN	1739706	8724748				X	X				
AGW010	AGW010-20161129	11/29/2016	N	1739686	8724648				X	X			X	X
AGW024	AGW024-20161129	11/29/2016	PDN	1739686	8724651				X					
AGW025	AGW025-20161128	11/28/2016	PDN	1738357	8718644				X					
AGW026	AGW026-20161129	11/29/2016	PDN	1739686	8724652				X	X				
AGW027	AGW027-20161128	11/28/2016	PDN	1738357	8718645				X	X				
AGW031R	AGW031R-20161201	12/1/2016	PDN	1740154	8726885				X	X				
AGW032	AGW032-20161128	11/28/2016	PDN	1738357	8718646				X	X				
AGW033	AGW033-20161129	11/29/2016	PDN	1739686	8724653				X	X				
AGW037	AGW037-20161129	11/29/2016	PDN	1739686	8724654				X	X				
AGW049	AGW049-20161129	11/29/2016	N	1739686	8724649						X	X		
AGW050	AGW050-20161129	11/29/2016	N	1739686	8724650						X	X		
AGW053R	AGW053R-20161130	11/30/2016	PDN	1739706	8724749				X	X				
AGW055R	AGW055R-20161130	11/30/2016	PDN	1739706	8724750				X	X				
AGW057R	AGW057R-20161130	11/30/2016	PDN	1739706	8724751				X					
AGW060R	AGW060R-20161130	11/30/2016	PDN	1739706	8724752				X	X				
AGW064	AGW064-20161201	12/1/2016	PDN	1740154	8726886				X					
AGW066	AGW066-20161130	11/30/2016	PDN	1739706	8724753				X					
AGW066	AGW906-20161130	11/30/2016	PDFD	1739706	8724754				X					
AGW067	AGW067-20161130	11/30/2016	PDN	1739706	8724755				X					
AGW069	AGW069-20161201	12/1/2016	PDN	1740154	8726887				X					
AGW072	AGW072-20161130	11/30/2016	PDN	1739706	8724756				X					
AGW073	AGW073-20161130	11/30/2016	PDN	1739706	8724757				X					
AGW074	AGW074-20161128	11/28/2016	PDN	1738357	8718647				X	X				
AGW079	AGW079-20161129	11/29/2016	PDN	1739686	8724655				X					
AGW085	AGW085-20161128	11/28/2016	PDN	1738357	8718648				X					
AGW085	AGW907-20161128	11/28/2016	PDFD	1738357	8718649				X					
AGW087	AGW087-20161128	11/28/2016	PDN	1738357	8718650				X	X				
AGW088	AGW088-20161128	11/28/2016	PDN	1738357	8718651				X	X				
AGW089	AGW089-20161128	11/28/2016	PDN	1738357	8718652				X	X				
AGW090	AGW090-20161128	11/28/2016	PDN	1738357	8718653				X	X				
AGW091	AGW091-20161128	11/28/2016	PDN	1738357	8718654				X	X				
AGW095R	AGW095R-20161201	12/1/2016	PDN	1740154	8726888				X	X				
AGW098R	AGW098R-20161130	11/30/2016	PDN	1739706	8724758				X					
AGW105	AGW105-20161129	11/29/2016	PDN	1739686	8724656				X	X				
AGW106R	AGW106R-20161130	11/30/2016	N	1739706	8724742/8724743	X	X	X	X					
AGW110R	AGW110R-20161130	11/30/2016	N	1739706	8724744/8724745	X	X	X	X	X				
AGW112R	AGW112R-20161130	11/30/2016	PDN	1739706	8724759				X	X				
AGW115	AGW115-20161201	12/1/2016	PDN	1740154	8726889				X	X				
AGW116	AGW116-20161201	12/1/2016	PDN	1740154	8726890				X					
AGW117	AGW117-20161128	11/28/2016	PDN	1738357	8718655				X					
AGW118	AGW118-20161201	12/1/2016	PDN	1740154	8726891				X					
AGW119	AGW119-20161128	11/28/2016	PDN	1738357	8718656				X	X				
AGW120	AGW120-20161128	11/28/2016	PDN	1738357	8718657				X	X				
AGW125	AGW125-20161130	11/30/2016	PDN	1739706	8724760				X	X				
AGW126	AGW126-20161130	11/30/2016	PDN	1739706	8724761				X	X				
AGW128	AGW128-20161201	12/1/2016	N	1740154	8726900				X	X			X	
AGW129	AGW129-20161201	12/1/2016	PDN	1740154	8726892				X					
AGW130	AGW130-20161201	12/1/2016	N	1740154	8726901				X				X	
AGW131	AGW131-20161128	11/28/2016	PDN	1738357	8718666				X					
AGW134	AGW134-20161129	11/29/2016	PDN	1739686	8724657				X	X				
AGW135	AGW135-20161129	11/29/2016	PDN	1739686	8724658				X	X				
AGW136	AGW136-20161202	12/2/2016	PDN	1740168	8727070				X	X				
AGW137	AGW137-20161202	12/2/2016	PDN	1740168	8727069				X	X				
AGW138	AGW138-20161202	12/2/2016	PDN	1740168	8727074				X					
AGW139	AGW139-20161201	12/1/2016	PDN	1740154	8726893				X					
AGW140	AGW140-20161201	12/1/2016	PDN	1740154	8726894				X	X				
AGW141	AGW141-20161201	12/1/2016	PDN	1740154	8726895				X					
AGW142	AGW142-20161201	12/1/2016	PDN	1740154	8726896				X					
AGW143	AGW143-20161202	12/2/2016	PDN	1740168	8727071				X					
AGW144	AGW144-20161202	12/2/2016	PDN	1740168	8727068				X	X				
AGW145	AGW145-20161202	12/2/2016	PDN	1740168	8727073				X					
AGW146	AGW146-20161202	12/2/2016	PDN	1740168	8727076				X	X				
AGW146	AGW908-20161202	12/2/2016	PDFD	1740168	8727075				X	X				

Table 1-1
4Q2016 Groundwater Sampling Matrix
Boeing Auburn Facility
Auburn, Washington

Sample Location	Field Sample ID	Sample Date	Sample Type	Laboratory SDG	Laboratory Sample ID	Sulfate by EPA 300.0	MEE by RSK-175	TOC by SM 5310C	VOCs by SW-846 8260C	VC by SW-846 8260C SIM	Cadmium EPA 200.8	Nickel EPA 200.8	TPH-D NWTPH-Dx	TPH-G NWTPH-Gx
AGW147	AGW147-20161202	12/2/2016	PDN	1740168	8727066				X	X				
AGW148	AGW148-20161202	12/2/2016	PDN	1740168	8727065				X	X				
AGW149	AGW149-20161202	12/2/2016	PDN	1740168	8727072				X					
AGW149	AGW909-20161202	12/2/2016	PDFD	1740168	8727077				X					
AGW150	AGW150-20161129	11/29/2016	PDN	1739686	8724659				X					
AGW151	AGW151-20161201	12/1/2016	PDN	1740154	8726897				X					
AGW152	AGW152-20161128	11/28/2016	PDN	1738357	8718658				X					
AGW154	AGW154-20161129	11/29/2016	PDN	1739686	8724660				X	X				
AGW155	AGW155-20161128	11/28/2016	PDN	1738357	8718659				X					
AGW156	AGW156-20161128	11/28/2016	PDN	1738357	8718660				X					
AGW157	AGW157-20161202	12/2/2016	PDN	1740168	8727067				X	X				
AGW158	AGW158-20161205	12/5/2016	PDN	1741261	8731217				X	X				
AGW159	AGW159-20161205	12/5/2016	PDN	1741261	8731218				X	X				
AGW160	AGW160-20161206	12/6/2016	PDN	1742033	8734661				X					
AGW161	AGW161-20161202	12/2/2016	PDN	1740168	8727079				X					
AGW162	AGW162-20161201	12/1/2016	PDN	1740154	8726898				X					
AGW163	AGW163-20161129	11/29/2016	PDN	1739686	8724661				X	X				
AGW164	AGW164-20161129	11/29/2016	PDN	1739686	8724662				X	X				
AGW165	AGW165-20161129	11/29/2016	PDN	1739686	8724663				X	X				
AGW166	AGW166-20161205	12/5/2016	PDN	1741261	8731213				X	X				
AGW167	AGW167-20161205	12/5/2016	PDN	1741261	8731214				X	X				
AGW168	AGW168-20161206	12/6/2016	PDN	1742033	8734659				X	X				
AGW169	AGW169-20161206	12/6/2016	PDN	1742033	8734660				X	X				
AGW170	AGW170-20161206	12/6/2016	PDN	1742036	8734701				X	X				
AGW171	AGW171-20161206	12/6/2016	PDN	1742036	8734702				X					
AGW172	AGW172-20161205	12/5/2016	PDN	1741258	8731173				X					
AGW173	AGW173-20161205	12/5/2016	PDN	1741258	8731174				X	X				
AGW174	AGW174-20161202	12/2/2016	PDN	1740168	8727063				X					
AGW175	AGW175-20161207	12/7/2016	N	1742568	8736762				X					
AGW176	AGW176-20161205	12/5/2016	PDN	1741258	8731171				X	X				
AGW177	AGW177-20161205	12/5/2016	PDN	1741261	8731221				X	X				
AGW178	AGW178-20161205	12/5/2016	PDN	1741261	8731222				X	X				
AGW179	AGW179-20161205	12/5/2016	PDN	1741261	8731219				X	X				
AGW180	AGW180-20161205	12/5/2016	PDN	1741261	8731220				X					
AGW181	AGW181-20161130	11/30/2016	PDN	1739713	8724801				X	X				
AGW182	AGW182-20161205	12/5/2016	PDN	1741258	8731177				X	X				
AGW183	AGW183-20161205	12/5/2016	PDN	1741258	8731178				X	X				
AGW184	AGW184-20161206	12/6/2016	PDN	1742033	8734663				X					
AGW185	AGW185-20161202	12/2/2016	PDN	1740168	8727080				X					
AGW186	AGW186-20161206	12/6/2016	PDN	1742033	8734664				X					
AGW187	AGW187-20161202	12/2/2016	PDN	1740168	8727064				X					
AGW188	AGW188-20161130	11/30/2016	N	1739713	8724798				X	X				
AGW188	AGW901-20161130	11/30/2016	FD	1739713	8724799				X	X				
AGW189	AGW189-20161206	12/6/2016	PDN	1742033	8734662				X					
AGW190	AGW190-20161202	12/2/2016	PDN	1740168	8727078				X					
AGW191	AGW191-20161202	12/2/2016	PDN	1740170	8727096				X	X				
AGW191	AGW910-20161202	12/2/2016	PDFD	1740170	8727097				X	X				
AGW192	AGW192-20161202	12/2/2016	PDN	1740170	8727098				X	X				
AGW193	AGW193-20161205	12/5/2016	PDN	1741261	8731215				X	X				
AGW194	AGW194-20161205	12/5/2016	PDN	1741261	8731216				X	X				
AGW195	AGW195-20161205	12/5/2016	PDN	1741258	8731166				X	X				
AGW196	AGW196-20161205	12/5/2016	PDN	1741258	8731168				X					
AGW197	AGW197-20161205	12/5/2016	PDN	1741258	8731167				X					
AGW198	AGW198-20161205	12/5/2016	PDN	1741258	8731169				X	X				
AGW199	AGW199-20161205	12/5/2016	PDN	1741258	8731170				X	X				
AGW200-2	AGW200-2-30-20161205	12/5/2016	N	1741262	8731224				X					
AGW200-5	AGW200-5-60-20161205	12/5/2016	N	1741262	8731225				X					
AGW200-6	AGW200-6-80-20161205	12/5/2016	N	1741262	8731226				X					
AGW201-2	AGW201-2-30-20161205	12/5/2016	N	1741262	8731227				X					
AGW201-5	AGW201-5-60-20161207	12/7/2016	N	1742568	8736765				X					
AGW201-6	AGW201-6-80-20161205	12/5/2016	N	1741262	8731228				X	X				
AGW202-2	AGW202-2-30-20161205	12/5/2016	N	1741262	8731229				X	X				
AGW202-4	AGW202-4-51-20161205	12/5/2016	N	1741262	8731230				X					
AGW202-6	AGW202-6-81-20161205	12/5/2016	N	1741262	8731231				X					
AGW203-2	AGW203-2-30-20161207	12/7/2016	N	1742568	8736766				X					
AGW203-4	AGW203-4-49-20161207	12/7/2016	N	1742568	8736767				X					
AGW203-6	AGW203-6-80-20161207	12/7/2016	N	1742568	8736768				X					

Table 1-1
4Q2016 Groundwater Sampling Matrix
Boeing Auburn Facility
Auburn, Washington

Sample Location	Field Sample ID	Sample Date	Sample Type	Laboratory SDG	Laboratory Sample ID	Sulfate by EPA 300.0	MEE by RSK-175	TOC by SM 5310C	VOCs by SW-846 8260C	VC by SW-846 8260C SIM	Cadmium EPA 200.8	Nickel EPA 200.8	TPH-D NWTPH-Dx	TPH-G NWTPH-Gx
AGW206	AGW206-20161128	11/28/2016	PDN	1738357	8718661				X					
AGW207-2	AGW207-2-30-20161206	12/6/2016	N	1742036	8734696				X	X				
AGW207-4	AGW207-4-49-20161206	12/6/2016	N	1742036	8734697				X	X				
AGW207-7	AGW207-7-80-20161206	12/6/2016	N	1742036	8734698				X	X				
AGW208-2	AGW208-2-29-20161206	12/6/2016	N	1742036	8734693				X					
AGW208-4	AGW208-4-49-20161206	12/6/2016	N	1742036	8734694				X	X				
AGW208-6	AGW208-6-80-20161206	12/6/2016	N	1742036	8734695				X					
AGW209-2	AGW209-2-30-20161206	12/6/2016	N	1742036	8734690				X					
AGW209-5	AGW209-5-60-20161206	12/6/2016	N	1742036	8734691				X	X				
AGW209-6	AGW209-6-80-20161206	12/6/2016	N	1742036	8734692				X	X				
AGW210-5	AGW210-5-60-20161206	12/6/2016	N	1742036	8734688				X	X				
AGW210-6	AGW210-6-80-20161206	12/6/2016	N	1742036	8734689				X					
AGW211-5	AGW211-5-60-20161207	12/7/2016	N	1742568	8736764				X	X				
AGW211-5	AGW902-20161207	12/7/2016	FD	1742568	8736763				X	X				
AGW211-6	AGW211-6-80-20161206	12/6/2016	N	1742036	8734699				X					
AGW212-5	AGW212-5-60-20161207	12/7/2016	N	1742568	8736760				X					
AGW212-7	AGW212-7-100-20161207	12/7/2016	N	1742568	8736761				X					
AGW213	AGW213-20161130	11/30/2016	PDN	1739713	8724800				X	X				
AGW214	AGW214-20161207	12/7/2016	N	1742567	8736754				X	X				
AGW214	AGW903-20161207	12/7/2016	FD	1742567	8736755				X	X				
AGW215	AGW215-20161207	12/7/2016	N	1742567	8736750				X	X				
AGW216	AGW216-20161207	12/7/2016	N	1742567	8736756				X					
AGW217	AGW217-20161207	12/7/2016	N	1742567	8736753				X	X				
AGW218	AGW218-20161207	12/7/2016	N	1742567	8736752				X	X				
AGW219	AGW219-20161206	12/6/2016	PDN	1742033	8734666				X	X				
AGW220	AGW220-20161207	12/7/2016	N	1742567	8736751				X	X				
AGW221	AGW221-20161207	12/7/2016	N	1742567	8736757				X	X				
AGW222	AGW222-20161201	12/1/2016	PDN	1740154	8726899				X					
AGW225	AGW225-20161202	12/2/2016	N	1740170	8727094/8727095	X	X	X	X	X				
AGW226	AGW226-20161207	12/7/2016	N	1742568	8736769/8736770	X	X	X	X	X				
AGW227	AGW227-20161206	12/6/2016	PDN	1742034	8734678				X	X				
AGW228	AGW228-20161206	12/6/2016	N	1742034	8734679				X	X				
AGW229	AGW229-20161206	12/6/2016	PDN	1742033	8734672				X	X				
AGW230	AGW230-20161206	12/6/2016	PDN	1742033	8734665				X					
AGW231	AGW231-20161205	12/5/2016	PDN	1741258	8731172				X					
AGW232	AGW232-20161205	12/5/2016	PDN	1741258	8731165				X					
AGW233	AGW233-20161202	12/2/2016	PDN	1740168	8727062				X					
AGW234	AGW234-20161205	12/5/2016	PDN	1741258	8731176				X	X				
AGW235-2	AGW235-2-19-20161206	12/6/2016	N	1742034	8734675				X	X				
AGW235-4	AGW235-4-39-20161206	12/6/2016	N	1742034	8734676				X	X				
AGW235-7	AGW235-7-71-20161206	12/6/2016	N	1742034	8734677				X					
AGW236	AGW236-20161205	12/5/2016	PDN	1741258	8731175				X	X				
AGW237	AGW237-20161206	12/6/2016	PDN	1742033	8734670				X	X				
AGW238	AGW238-20161206	12/6/2016	PDN	1742033	8734669				X	X				
AGW239	AGW239-20161206	12/6/2016	PDN	1742033	8734668				X	X				
AGW240-1	AGW240-1-7-20161130	11/30/2016	N	1739713	8724804/8724805	X	X	X	X	X				
AGW240-5	AGW240-5-28-20161130	11/30/2016	N	1739713	8724806/8724807	X	X	X	X	X				
AGW241-1	AGW241-1-6-20161130	11/30/2016	N	1739713	8724802				X	X				
AGW241-5	AGW241-5-27-20161130	11/30/2016	N	1739713	8724803				X	X				
AGW242-1	AGW242-1-6-20161129	11/29/2016	N	1739144	8722376				X	X				
AGW242-2	AGW242-2-16-20161129	11/29/2016	N	1739144	8722377				X					
AGW242-5	AGW242-5-60-20161129	11/29/2016	N	1739144	8722378				X					
AGW243-1	AGW243-1-6-20161130	11/30/2016	N	1739713	8724808				X	X				
AGW243-3	AGW243-3-25-20161130	11/30/2016	N	1739713	8724809				X					
AGW243-5	AGW243-5-50-20161130	11/30/2016	N	1739713	8724810				X					
AGW244	AGW244-20161201	12/1/2016	N	1740158	8726934/8726935	X	X	X	X	X				
AGW244	AGW900-20161201	12/1/2016	FD	1740158	8726936/8726937	X	X	X	X	X				
AGW245	AGW245-20161201	12/1/2016	PDN	1740158	8726941				X	X				
AGW246	AGW246-20161201	12/1/2016	PDN	1740158	8726940				X	X				
AGW247-1	AGW247-1-6-20161201	12/1/2016	N	1740158	8726928/8726929	X	X	X	X	X				
AGW247-5	AGW247-5-27-20161201	12/1/2016	N	1740158	8726930/8726931	X	X	X	X	X				
AGW248-1	AGW248-1-5-20161201	12/1/2016	N	1740158	8726938				X	X				
AGW248-5	AGW248-5-26-20161201	12/1/2016	N	1740158	8726939				X	X				
AGW249-1	AGW249-1-8-20161202	12/2/2016	N	1740170	8727092				X	X				
AGW249-5	AGW249-5-29-20161202	12/2/2016	N	1740170	8727093				X	X				
AGW250-1	AGW250-1-9-20161205	12/5/2016	N	1741261	8731209				X	X				
AGW250-2	AGW250-2-26-20161205	12/5/2016	N	1741261	8731210				X	X				

Table 1-1
4Q2016 Groundwater Sampling Matrix
Boeing Auburn Facility
Auburn, Washington

Sample Location	Field Sample ID	Sample Date	Sample Type	Laboratory SDG	Laboratory Sample ID	Sulfate by EPA 300.0	MEE by RSK-175	TOC by SM 5310C	VOCs by SW-846 8260C	VC by SW-846 8260C SIM	Cadmium EPA 200.8	Nickel EPA 200.8	TPH-D NWTPH-Dx	TPH-G NWTPH-Gx
AGW250-3	AGW250-3-41-20161205	12/5/2016	N	1741261	8731211				X	X				
AGW250-6	AGW250-6-81-20161205	12/5/2016	N	1741261	8731212				X	X				
AGW251-1	AGW251-1-8-20161202	12/2/2016	N	1740170	8727084/8727085	X	X	X	X	X				
AGW251-2	AGW251-2-25-20161202	12/2/2016	N	1740170	8727086/8727087	X	X	X	X	X				
AGW251-3	AGW251-3-40-20161202	12/2/2016	N	1740170	8727088/8727089	X	X	X	X	X				
AGW251-6	AGW251-6-76-20161202	12/2/2016	N	1740170	8727090				X	X				
AGW252	AGW252-20161206	12/6/2016	PDN	1742033	8734667				X	X				
AGW254-1	AGW254-1-6-20161206	12/6/2016	N	1742034	8734683				X	X				
AGW254-2	AGW254-2-20-20161206	12/6/2016	N	1742034	8734684				X	X				
AGW254-5	AGW254-5-50-20161206	12/6/2016	N	1742034	8734685				X	X				
AGW255-1	AGW255-1-13-20161206	12/6/2016	N	1742034	8734680				X	X				
AGW255-3	AGW255-3-30-20161206	12/6/2016	N	1742034	8734681				X	X				
AGW255-5	AGW255-5-55-20161206	12/6/2016	N	1742034	8734682				X	X				
AGW256	AGW256-20161128	11/28/2016	PDN	1738357	8718662				X					
AGW257	AGW257-20161128	11/28/2016	PDN	1738357	8718663				X					
AGW258	AGW258-20161128	11/28/2016	PDN	1738357	8718664				X					
AGW259	AGW259-20161206	12/6/2016	PDN	1742033	8734671				X	X				
AGW260	AGW260-20161129	11/29/2016	PDN	1739144	8722379				X	X				
AGW261	AGW261-20161202	12/2/2016	PDN	1740170	8727091				X	X				
AGW262	AGW262-20161201	12/1/2016	PDN	1740158	8726942				X	X				
AGW263	AGW263-20161202	12/2/2016	PDN	1740170	8727099				X	X				
AGW263	AGW911-20161202	12/2/2016	PDFD	1740170	8727100				X	X				
AGW264	AGW264-20161129	11/29/2016	PDN	1739144	8722380				X	X				
AGW265	AGW265-20161129	11/29/2016	PDN	1739144	8722381				X	X				
AGW266	AGW266-20161130	11/30/2016	PDN	1739713	8724797				X	X				
AGW267	AGW267-20161201	12/1/2016	PDN	1740158	8726932				X	X				
AGW268	AGW268-20161201	12/1/2016	PDN	1740158	8726933				X	X				
AGW269	AGW269-20161129	11/29/2016	N	1739144	8722372/8722373	X	X	X	X	X				
AGW270	AGW270-20161128	11/28/2016	N	1738371	8718747/8718748	X	X	X	X	X				
AGW271	AGW271-20161129	11/29/2016	N	1739144	8722374/8722375	X	X	X	X	X				
AGW272	AGW272-20161128	11/28/2016	N	1738371	8718737/8718738	X	X	X	X	X				
AGW273	AGW273-20161129	11/29/2016	N	1739144	8722366/8722367	X	X	X	X	X				
AGW274	AGW274-20161129	11/29/2016	N	1739144	8722368/8722369	X	X	X	X	X				
AGW275	AGW275-20161129	11/29/2016	N	1739144	8722370/8722371	X	X	X	X	X				
AGW276-2	AGW276-2-25-20161201	12/1/2016	N	1740158	8726924				X	X				
AGW276-5	AGW276-5-60-20161201	12/1/2016	N	1740158	8726926				X	X				
AGW276-6	AGW276-6-80-20161201	12/1/2016	N	1740158	8726927				X	X				
APP-057	APP-057-20161207	12/7/2016	N	1742567	8736748				X	X				
APP-057	AGW904-20161207	12/7/2016	FD	1742567	8736749				X	X				
IW33	IW33-20161128	11/28/2016	N	1738371	8718744			X						
IW34	IW34-20161128	11/28/2016	N	1738371	8718742/8718743	X	X	X	X	X				
IW35	IW35-20161128	11/28/2016	N	1738371	8718741			X						
IW36	IW36-20161128	11/28/2016	N	1738371	8718739/8718740	X	X	X	X	X				
IW37	IW37-20161128	11/28/2016	N	1738371	8718745/8718746	X	X	X	X	X				

Abbreviations/Acronyms:

EPA = US Environmental Protection Agency
FD = field duplicate
ID = identification
MEE = methane, ethane, ethene
N = primary sample
PDN = passive diffusion primary sample
PDFD = passive diffusion field duplicate
SDG = sample delivery group
SIM = selected ion monitoring
TOC = total organic compound
TPH-D = diesel-range total petroleum hydrocarbons
TPH-G = gasoline-range total petroleum hydrocarbons
VC = vinyl chloride
VOC = volatile organic compound

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW001R	AGW001R	AGW002R	AGW006R	AGW010	AGW024	AGW025	AGW026	AGW027	AGW031R	AGW032	AGW033	AGW037	AGW049	AGW050	AGW053R
Zone:	Shallow	Shallow	Shallow	Shallow	Shallow-WT	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-WT	Shallow-WT	Shallow-WT	Shallow	Shallow	Shallow-WT
Laboratory SDG:	1739706	1739706	1739706	1739706	1739686	1739686	1738357	1739686	1738357	1740154	1738357	1739686	1739686	1739686	1739686	1739706
Sample Date:	11/30/2016	11/30/2016	11/30/2016	11/30/2016	11/29/2016	11/29/2016	11/28/2016	11/29/2016	11/28/2016	12/1/2016	11/28/2016	11/29/2016	11/29/2016	11/29/2016	11/29/2016	11/30/2016
Sample Type:	PDN	PDFD	N	PDN	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N	N	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	50 U	53 U	5.0 U	58 U	50 U	35 U	41 U	54 U	51 U	33 U	11 U	**100**	20 U	--	--	50 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	**0.3**	**1.6**	2.0 U	**1.5**	**3.8**	**0.9**	**2.1**	**2.7**	0.2 U	**0.3**	**1.4**	--	--	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	**630**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	--	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	**0.2**
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	**5.9**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Trichloroethene	**2.2**	**2.2**	0.2 U	**0.2**	2.0 U	0.2 U	**0.2**	**0.8**	**0.3**	**1.2**	0.2 U	**0.3**	**2.6**	--	--	**1**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	**1.8**	**1.5**	0.2 U	**0.6**	0.2 U	0.2 U	0.2 U	0.2 U	--	--	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	**0.037**	**0.12**	0.040 U	--	--	**0.034**	**0.60**	**0.026**	0.020 U	**0.024**	**0.18**	--	--	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	**460**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	**66**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	**1.0**	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	**3.2**	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	**10,000**	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0124**	**0.0162**	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0667**	**0.0164**	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	**0.53**	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	0.24 U	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	**10**	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW055R	AGW057R	AGW060R	AGW064	AGW066	AGW066	AGW067	AGW069	AGW072	AGW073	AGW074	AGW079	AGW085	AGW085	AGW087	AGW088
Zone:	Intermediate	Intermediate	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Intermediate	Deep	Shallow-WT	Shallow	Shallow-WT	Shallow-WT	Intermediate	Shallow-WT
Laboratory SDG:	1739706	1739706	1739706	1740154	1739706	1739706	1739706	1740154	1739706	1739706	1738357	1739686	1738357	1738357	1738357	1738357
Sample Date:	11/30/2016	11/30/2016	11/30/2016	12/1/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	11/30/2016	11/30/2016	11/28/2016	11/29/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDFD	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	59 U	54 U	49 U	37 U	47 U	51 U	38 U	65 U	33 U	13 U	8.3 U	24 U	57 U	57 U	17 U	51 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**1**	0.2 U	**2.3**	0.2 U	**1.4**	**1.4**	**1.6**	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.3**	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**0.5**	**1.5**	**1.0**	**0.3**	**4.3**	**4.3**	**3.7**	0.2 U	**1.3**	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.053**	--	**0.048**	--	--	--	--	--	--	--	0.020 U	--	--	--	0.020 U	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW089	AGW090	AGW091	AGW095R	AGW098R	AGW105	AGW106R	AGW110R	AGW112R	AGW115	AGW116	AGW117	AGW118	AGW119	AGW120	AGW125
Zone:	Intermediate	Shallow	Intermediate	Intermediate	Deep	Intermediate	Shallow	Shallow	Shallow	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Intermediate	Shallow	Shallow
Laboratory SDG:	1738357	1738357	1738357	1740154	1739706	1739686	1739706	1739706	1739706	1740154	1740154	1738357	1740154	1738357	1738357	1739706
Sample Date:	11/28/2016	11/28/2016	11/28/2016	12/1/2016	11/30/2016	11/29/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	12/1/2016	11/28/2016	12/1/2016	11/28/2016	11/28/2016	11/30/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDN	N	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	53 U	63 U	54 U	54 U	30 U	57 U	5.0 U	5.0 U	37 U	58 U	37 U	49 U	40 U	54 U	53 U	16 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.7**	0.2 U	0.2 U	**1.1**	**3.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.1**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.5**	**0.6**	**0.7**	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	**1**	**0.5**	**1**	**0.2**	0.2 U	**2.2**	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	**8.7**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	0.020 U	0.020 U	0.020 U	--	**0.72**	--	**0.15**	**0.070**	**0.44**	--	--	--	0.020 U	0.020 U	**0.025**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	**12.1**	1.0 U	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	1.0 U	**2.4**	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	**580**	**6,000**	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW126	AGW128	AGW129	AGW130	AGW131	AGW134	AGW135	AGW136	AGW137	AGW138	AGW139	AGW140	AGW141	AGW142	AGW143	AGW144
Zone:	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT	Shallow	Shallow	Shallow	Shallow	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Deep	Deep	Intermediate
Laboratory SDG:	1739706	1740154	1740154	1740154	1738357	1739686	1739686	1740168	1740168	1740168	1740154	1740154	1740154	1740154	1740168	1740168
Sample Date:	11/30/2016	12/1/2016	12/1/2016	12/1/2016	11/28/2016	11/29/2016	11/29/2016	12/2/2016	12/2/2016	12/2/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/2/2016	12/2/2016
Sample Type:	PDN	N	PDN	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	20 U	5.0 U	16 U	5.0 U	52 U	64 U	45 U	22 U	51 U	32 U	68 U	62 U	13 U	62 U	44 U	54 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**7.5**	0.2 U	**0.3**	0.2 U	**2.0**	0.2 U	**0.5**	**1.2**	**1.9**	0.2 U	**0.2**	**2.0**	**0.4**	0.2 U	0.2 U	**2.0**
trans-1,2-Dichloroethene	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	**0.5**	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**6.2**	0.2 U	**0.6**	**0.3**	0.2 U	0.2 U	**1.5**	**2.8**	**4.3**	**0.7**	**4.0**	**4.3**	**2.2**	0.2 U	0.2 U	**1.2**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	**5.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	**0.4**
Vinyl Chloride (by 8260C SIM)	**0.073**	0.020 U	--	--	--	0.020 U	**0.033**	0.020 U	0.020 U	--	--	**0.39**	--	--	--	**0.38**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	**2.2 J**	--	0.095 U	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	**1.2**	--	0.24 U	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW145	AGW146	AGW146	AGW147	AGW148	AGW149	AGW149	AGW150	AGW151	AGW152	AGW154	AGW155	AGW156	AGW157	AGW158	AGW159
Zone:	Intermediate	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Deep
Laboratory SDG:	1740168	1740168	1740168	1740168	1740168	1740168	1740168	1739686	1740154	1738357	1739686	1738357	1738357	1740168	1741261	1741261
Sample Date:	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	11/29/2016	12/1/2016	11/28/2016	11/29/2016	11/28/2016	11/28/2016	12/2/2016	12/5/2016	12/5/2016
Sample Type:	PDN	PDN	PDFD	PDN	PDN	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	62 U	37 U	37 U	45 U	47 U	53 U	58 U	65 U	56 U	24 U	49 U	27 U	40 U	22 U	46 U	17 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Carbon Disulfide	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	**0.2**	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**8.0**	**1.9**	**1.8**	**1.2**	**1.7**	**0.4**	**0.4**	0.2 U	0.2 U	0.2 U	**0.5**	**3.9**	**12**	**2.2**	**0.7**	**1**
trans-1,2-Dichloroethene	**1.1**	**0.2**	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.6**	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**13**	**4.5**	**4.4**	0.2 U	**4.1**	**4.0**	**4.1**	**1.4**	**0.5**	0.2 U	**0.4**	0.2 U	**0.8**	**2.8**	**2.7**	**4.4**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**3.2**	0.2 U	**4.7**	**1.6**	**0.4**	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	**0.12**	**0.12**	0.020 U	**0.037**	--	--	--	--	--	**0.024**	--	--	**0.44**	**0.042**	**0.095**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW160	AGW161	AGW162	AGW163	AGW164	AGW165	AGW166	AGW167	AGW168	AGW169	AGW170	AGW171	AGW172	AGW173	AGW174	AGW175
Zone:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Intermediate	Deep	Intermediate	Deep	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Intermediate
Laboratory SDG:	1742033	1740168	1740154	1739686	1739686	1739686	1741261	1741261	1742033	1742033	1742036	1742036	1741258	1741258	1740168	1742568
Sample Date:	12/6/2016	12/2/2016	12/1/2016	11/29/2016	11/29/2016	11/29/2016	12/5/2016	12/5/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/5/2016	12/5/2016	12/2/2016	12/7/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	13 U	54 U	65 U	46 U	23 U	20 U	27 U	51 U	45 U	40 U	54 U	66 U	26 U	44 U	33 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Carbon Disulfide	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.4**	0.2 U	0.2 U	**1.4**	**0.4**	**1.5**	**0.6**	**2.7**	**1.9**	**1.6**	**0.5**	0.2 U	**0.4**	0.2 U	0.2 U	**0.4**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**3.4**	**1.7**	**0.7**	**4.7**	**1.7**	**2.6**	0.2 U	**5.9**	**5.4**	**6.4**	**2.7**	**1.9**	**5.7**	**1.2**	**1.8**	**2.3**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	--	**0.032**	**0.065**	**0.18**	**0.22**	**0.17**	**0.059**	**0.049**	0.020 U	--	--	0.020 U	--	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW176	AGW177	AGW178	AGW179	AGW180	AGW181	AGW182	AGW183	AGW184	AGW185	AGW186	AGW187	AGW188	AGW188	AGW189	AGW190
Zone:	Intermediate	Intermediate	Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Laboratory SDG:	1741258	1741261	1741261	1741261	1741261	1739713	1741258	1741258	1742033	1740168	1742033	1740168	1739713	1739713	1742033	1740168
Sample Date:	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	11/30/2016	12/5/2016	12/5/2016	12/6/2016	12/2/2016	12/6/2016	12/2/2016	11/30/2016	11/30/2016	12/6/2016	12/2/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N	FD	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	47 U	49 U	57 U	75 U	25 U	20 U	42 U	29 U	78 U	82 U	54 U	30 U	**5.9**	5.0 U	49 U	22 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.4**	**0.9**	**0.5**	**7.6**	**0.8**	**1.2**	**2.6**	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	**0.6**	**0.6**	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**4.0**	**4.9**	**5.0**	0.2 U	**4.3**	**5.0**	**1.8**	0.2 U	**0.5**	**2.7**	**0.6**	**2.1**	**4.7**	**4.6**	**0.7**	**1.3**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	0.020 U	0.020 U	**0.085**	--	**0.030**	**0.16**	0.020 U	--	--	--	--	0.020 U	0.020 U	--	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW191	AGW191	AGW192	AGW193	AGW194	AGW195	AGW196	AGW197	AGW198	AGW199	AGW200-2	AGW200-5	AGW200-6	AGW201-2	AGW201-5	AGW201-6
Zone:	Intermediate	Intermediate	Deep	Shallow	Shallow	Deep	Intermediate	Deep	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Laboratory SDG:	1740170	1740170	1740170	1741261	1741261	1741258	1741258	1741258	1741258	1741258	1741262	1741262	1741262	1741262	1742568	1741262
Sample Date:	12/2/2016	12/2/2016	12/2/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/7/2016	12/5/2016
Sample Type:	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	**30**	**33**	**19**	56 U	47 U	68 U	76 U	72 U	84 U	44 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.2**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**1.9**	**0.6**	**0.9**	**4.7**	**1.2**	**0.6**	**1.5**	**2.0**	**6.1**	**2.3**	**3.2**	**3.9**	**4.6**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.6**	**0.4**	**0.2**	**0.3**	**0.4**
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	**3.6**	**2.1**	**8.1**	0.2 U	**11**	**8.4**	**9.0**	**0.3**	**1.8**	**0.4**	**0.6**	**4.0**	**8.2**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.8**	0.2 U	0.2 U	0.2 U	**1.3**	**1.1**	**0.7**	**2.0**	**0.7**	**0.4**
Vinyl Chloride (by 8260C SIM)	0.020 U	0.020 U	0.020 U	**0.24**	**0.022**	0.020 U	--	--	0.020 U	**0.027**	--	--	--	--	--	**0.46**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW202-2	AGW202-4	AGW202-6	AGW203-2	AGW203-4	AGW203-6	AGW206	AGW207-2	AGW207-4	AGW207-7	AGW208-2	AGW208-4	AGW208-6	AGW209-2	AGW209-5	AGW209-6
Zone:	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Intermediate	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Laboratory SDG:	1741262	1741262	1741262	1742568	1742568	1742568	1738357	1742036	1742036	1742036	1742036	1742036	1742036	1742036	1742036	1742036
Sample Date:	12/5/2016	12/5/2016	12/5/2016	12/7/2016	12/7/2016	12/7/2016	11/28/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016
Sample Type:	N	N	N	N	N	N	PDN	N	N	N	N	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	61 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U
cis-1,2-Dichloroethene	**2.8**	**1.4**	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	**5.4**	**2.1**	**0.7**	**5.5**	**3.8**	**0.9**	0.2 U	**1.6**	**0.9**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	**0.4**	**0.4**	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.6**	**3.4**	**1.0**	**0.9**	**3.0**	**0.2**	**0.7**	**6.9**	**6.4**	**5.9**	**3.2**	**2.0**	**5.3**	0.2 U	**2.4**	**5.3**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	**0.8**	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.8**	0.2 U	0.2 U	**1.5**	**0.9**	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.98**	--	--	--	--	--	--	**0.23**	**0.30**	**0.030**	--	**0.090**	--	--	**1.1**	**0.048**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW210-5	AGW210-6	AGW211-5	AGW211-5	AGW211-6	AGW212-5	AGW212-7	AGW213	AGW214	AGW214	AGW215	AGW216	AGW217	AGW218	AGW219	AGW220
Zone:	Intermediate	Deep	Intermediate	Intermediate	Deep	Intermediate	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Laboratory SDG:	1742036	1742036	1742568	1742568	1742036	1742568	1742568	1739713	1742567	1742567	1742567	1742567	1742567	1742567	1742033	1742567
Sample Date:	12/6/2016	12/6/2016	12/7/2016	12/7/2016	12/6/2016	12/7/2016	12/7/2016	11/30/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/6/2016	12/7/2016
Sample Type:	N	N	N	FD	N	N	N	PDN	N	FD	N	N	N	N	PDN	N
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	89 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	11 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**1.8**	**0.3**	**1.3**	**1.3**	**1.2**	0.2 U	0.2 U	0.2 U	**0.3**	**0.4**	0.2 U	**0.2**	**0.2**	**0.4**	0.2 U	**0.2**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.5**	**4.6**	**3.4**	**3.4**	**1.2**	**2.0**	**4.6**	0.2 U	**2.9**	**2.9**	0.2 U	**1**	**1.9**	**3.7**	0.2 U	**0.4**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.053**	--	0.020 U	0.020 U	--	--	--	0.020 U	**0.022**	**0.022**	0.020 U	--	**0.025**	**0.022**	0.020 U	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW221	AGW222	AGW225	AGW226	AGW227	AGW228	AGW229	AGW230	AGW231	AGW232	AGW233	AGW234	AGW235-2	AGW235-4	AGW235-7	AGW236
Zone:	Intermediate	Intermediate	Shallow	Shallow	Intermediate	Shallow	Shallow-WT	Deep	Shallow	Shallow	Deep	Deep	Shallow	Intermediate	Deep	Shallow
Laboratory SDG:	1742567	1740154	1740170	1742568	1742034	1742034	1742033	1742033	1741258	1741258	1740168	1741258	1742034	1742034	1742034	1741258
Sample Date:	12/7/2016	12/1/2016	12/2/2016	12/7/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/5/2016	12/5/2016	12/2/2016	12/5/2016	12/6/2016	12/6/2016	12/6/2016	12/5/2016
Sample Type:	N	PDN	N	N	PDN	N	PDN	PDN	PDN	PDN	PDN	PDN	N	N	N	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	5.0 U	39 U	5.0 U	5.0 U	**140**	5.0 U	66 U	55 U	78 U	70 U	39 U	44 U	5.0 U	5.0 U	5.0 U	32 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.4**	0.2 U	**0.3**	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	**4.8**	**4.0**	**3.0**	**3.2**	**2.2**	0.2 U	**1**	**4.4**	0.2 U	**1.8**	**2.1**	**10**	0.2 U	**6.5**
trans-1,2-Dichloroethene	0.2 U	0.2 U	**0.5**	**0.3**	**0.4**	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.2**	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	**0.6**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	**0.6**	**2.4**	**2.6**	**2.6**	**2.9**	**2.3**	**1.2**	**0.7**	0.2 U	0.2 U	**8.3**	0.2 U	**3.9**	0.2 U	**0.9**
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	**0.4**	**0.5**	**0.2**	**0.2**	0.2 U	0.2 U	**2.3**	**2.8**	0.2 U	0.2 U	**2.4**	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	--	**0.44**	**0.73**	**0.30**	**0.31**	**0.063**	--	--	--	--	**0.054**	**3.0**	**0.16**	--	**0.072**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	**4.7**	**7.6 J**	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	**3.4**	**2.4 J**	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	**280**	**920**	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW237	AGW238	AGW239	AGW240-1	AGW240-5	AGW241-1	AGW241-5	AGW242-1	AGW242-2	AGW242-5	AGW243-1	AGW243-3	AGW243-5	AGW244	AGW244	AGW245
Zone:	Deep	Intermediate	Shallow	Shallow-WT	Shallow	Shallow-WT	Shallow	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT
Laboratory SDG:	1742033	1742033	1742033	1739713	1739713	1739713	1739713	1739144	1739144	1739144	1739713	1739713	1739713	1740158	1740158	1740158
Sample Date:	12/6/2016	12/6/2016	12/6/2016	11/30/2016	11/30/2016	11/30/2016	11/30/2016	11/29/2016	11/29/2016	11/29/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	12/1/2016	12/1/2016
Sample Type:	PDN	PDN	PDN	N	N	N	N	N	N	N	N	N	N	N	FD	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	**100**	**120**	93 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	**1.0**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2** U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**1.0**	0.2 U	**5.1**	0.2 U	0.2 U	0.2 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	**0.2**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.041**	0.020 U	**0.46**	**0.13**	**0.10**	0.020 U	0.020 U	**0.36**	--	--	**0.039**	--	--	0.020 U	0.020 U	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	**13.2**	**13.0**	--
Total Organic Carbon	--	--	--	**7.3**	**6.2 J**	--	--	--	--	--	--	--	--	**3.8**	**3.7**	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	**14,000**	**28,000**	--	--	--	--	--	--	--	--	**54**	**56**	--
Ethane	--	--	--	**2.5 J**	**3.7 J**	--	--	--	--	--	--	--	--	1.0 U	1.0 U	--
Ethene	--	--	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	1.0 U	1.0 U	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW246	AGW247-1	AGW247-5	AGW248-1	AGW248-5	AGW249-1	AGW249-5	AGW250-1	AGW250-2	AGW250-3	AGW250-6	AGW251-1	AGW251-2	AGW251-3	AGW251-6	AGW252
Zone:	Shallow-WT	Shallow-WT	Shallow	Shallow-WT	Shallow	Shallow-WT	Shallow	Shallow-WT	Shallow	Intermediate	Deep	Shallow-WT	Shallow	Intermediate	Deep	Deep
Laboratory SDG:	1740158	1740158	1740158	1740158	1740158	1740170	1740170	1741261	1741261	1741261	1741261	1740170	1740170	1740170	1740170	1742033
Sample Date:	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/2/2016	12/2/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/6/2016
Sample Type:	PDN	N	N	N	N	N	N	N	N	N	N	N	N	N	N	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	5.0 UJ	5.0 UJ	5.0 UJ	**15 J**	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	61 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	**1.6**	0.2 U	**2.0**	0.2 U	**2.3**	0.2 U	**0.3**	**0.7**	0.2 U	0.2 U	0.2 U	**1.2**	**0.3**	0.2 U
trans-1,2-Dichloroethene	0.2 U	**0.3**	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	**3.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	**4.7**	0.2 U	**6.8**	0.2 U	**0.2**	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	**3.7**	**3.6**	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.0**	**6.1**	**0.3**	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	**4.0**	**4.0**	**0.024**	**0.19**	**1.2**	**0.12**	0.020 U	**0.031**	**0.049**	0.020 U	**0.037**	**2.3**	**6.8**	**0.30**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	**281**	1.0 U	1.0 U	--	--
Total Organic Carbon	--	**13.2**	**5.7**	--	--	--	--	--	--	--	--	**11.5**	**6.8**	**6.1**	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	**4,200**	**1,400**	--	--	--	--	--	--	--	--	**59**	**2,800**	**2,000**	--	--
Ethane	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	1.0 U	1.0 U	1.0 U	--	--
Ethene	--	1.0 U	1.0 U	--	--	--	--	--	--	--	--	1.0 U	**2.1 J**	1.0 U	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW254-1	AGW254-2	AGW254-5	AGW255-1	AGW255-3	AGW255-5	AGW256	AGW257	AGW258	AGW259	AGW260	AGW261	AGW262	AGW263	AGW263	AGW264
Zone:	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow	Intermediate	Intermediate	Shallow	Shallow	Deep	Deep	Shallow	Shallow-WT	Shallow-WT	Shallow-WT	Deep
Laboratory SDG:	1742034	1742034	1742034	1742034	1742034	1742034	1738357	1738357	1738357	1742033	1739144	1740170	1740158	1740170	1740170	1739144
Sample Date:	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	11/28/2016	11/28/2016	11/28/2016	12/6/2016	11/29/2016	12/2/2016	12/1/2016	12/2/2016	12/2/2016	11/29/2016
Sample Type:	N	N	N	N	N	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDFD	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	16 U	89 U	54 U	54 U	45 U	54 U	**95 J**	**83**	**86**	67 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**2.8**	**1.4**	**0.9**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.3**	0.2 U	**5.6**	**5.7**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.5**	**0.5**	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	**0.7**	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	**2.8**	0.2 U	**1.4**	**1.4**	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.3**	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	**0.048**	0.020 U	**0.27**	**0.22**	**0.25**	--	--	--	0.020 U	0.020 U	**0.15**	**0.10**	**0.37**	**0.34**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW265	AGW266	AGW267	AGW268	AGW269	AGW270	AGW271	AGW272	AGW273	AGW274	AGW275	AGW276-2	AGW276-5	AGW276-6	APP-057	APP-057
Zone:	Intermediate	Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Deep	Shallow	Shallow
Laboratory SDG:	1739144	1739713	1740158	1740158	1739144	1738371	1739144	1738371	1739144	1739144	1739144	1740158	1740158	1740158	1742567	1742567
Sample Date:	11/29/2016	11/30/2016	12/1/2016	12/1/2016	11/29/2016	11/28/2016	11/29/2016	11/28/2016	11/29/2016	11/29/2016	11/29/2016	12/1/2016	12/1/2016	12/1/2016	12/7/2016	12/7/2016
Sample Type:	PDN	PDN	PDN	PDN	N	N	N	N	N	N	N	N	N	N	N	FD
Volatile Organic Compounds (µg/L; SW-846 8260C)																
Acetone	52 U	**180**	68 U	54 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**0.5**	0.2 U	0.2 U	**0.3**	**2.2**	**2.5**	**6.0**	**2.4**	0.2 U	0.2 U	**2.0**	**7.1**	**2.1**	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.4**	**0.5**	**0.7**	**0.5**	0.2 U	**0.2**	**0.2**	**0.5**	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.6**	**1**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	**3.0**	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	**4.9**	**3.2**	**3.9**	**1.3**	**4.8**	**0.7**	0.2 U	**1.3**	**0.8**	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	0.020 U	0.020 U	0.020 U	**4.9**	**2.9**	**3.9**	**1.2**	**4.6**	**0.64**	**0.055**	**1.5**	**0.84**	**0.13**	0.020 U	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)																
Sulfate	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--	--	--	--
Total Organic Carbon	--	--	--	--	**9.6**	**38.7**	**14.0**	**4.0**	**6.4**	**8.2**	**4.1**	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)																
Methane	--	--	--	--	**35,000**	**30,000**	**36,000**	**700**	**3,600**	**13,000**	**16,000**	--	--	--	--	--
Ethane	--	--	--	--	**5.9**	1.0 U	1.0 U	1.0 U	**1.2 J**	**4.6 J**	**6.5**	--	--	--	--	--
Ethene	--	--	--	--	**1.1 J**	**1.4 J**	1.0 U	1.0 U	**1.3 J**	**1.6 J**	1.0 U	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)																
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)																
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-2
4Q2016 Groundwater Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	IW33	IW34	IW35	IW36	IW37
Zone:	Shallow	Shallow	Shallow	Shallow	Shallow
Laboratory SDG:	1738371	1738371	1738371	1738371	1738371
Sample Date:	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016
Sample Type:	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 8260C)					
Acetone	--	50 U	--	5.0 U	**90**
Benzene	--	2.0 U	--	0.2 U	0.2 U
Bromodichloromethane	--	5.0 U	--	0.5 U	0.5 U
Bromoform	--	5.0 U	--	0.5 U	0.5 U
Bromomethane	--	5.0 U	--	0.5 U	0.5 U
2-Butanone/MEK	--	**56**	--	5.0 U	**200**
Carbon Disulfide	--	5.0 U	--	0.5 U	0.5 U
Carbon Tetrachloride	--	2.0 U	--	0.2 U	0.2 U
Chlorobenzene	--	5.0 U	--	0.5 U	0.5 U
Chloroethane	--	5.0 U	--	0.5 U	0.5 U
Chloroform	--	2.0 U	--	0.2 U	0.2 U
Chloromethane	--	5.0 U	--	0.5 U	0.5 U
Dibromochloromethane	--	5.0 U	--	0.5 U	0.5 U
1,1-Dichloroethane	--	5.0 U	--	0.5 U	0.5 U
1,2-Dichloroethane	--	2.0 U	--	0.2 U	0.2 U
1,1-Dichloroethene	--	2.0 U	--	0.2 U	0.2 U
cis-1,2-Dichloroethene	--	**6.1**	--	**1.7**	**2.7**
trans-1,2-Dichloroethene	--	2.0 U	--	**0.4**	0.2 U
1,2-Dichloropropane	--	5.0 U	--	0.5 U	0.5 U
cis-1,3-Dichloropropene	--	2.0 U	--	0.2 U	0.2 U
trans-1,3-Dichloropropene	--	2.0 U	--	0.2 U	0.2 U
Ethylbenzene	--	5.0 U	--	0.5 U	0.5 U
2-Hexanone	--	50 U	--	5.0 U	5.0 U
4-Methyl-2-Pentanone	--	50 U	--	5.0 U	5.0 U
Methylene Chloride	--	5.0 U	--	0.5 U	0.5 U
Styrene	--	5.0 U	--	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	2.0 U	--	0.2 U	0.2 U
Tetrachloroethene	--	2.0 U	--	0.2 U	0.2 U
Toluene	--	**990**	--	0.2 U	0.2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	5.0 U	--	0.5 U	0.5 U
1,1,1-Trichloroethane	--	5.0 U	--	0.5 U	0.5 U
1,1,2-Trichloroethane	--	2.0 U	--	0.2 U	0.2 U
Trichloroethene	--	2.0 U	--	0.2 U	0.2 U
Trichlorofluoromethane	--	5.0 U	--	0.5 U	0.5 U
Vinyl Acetate	--	5.0 U	--	0.5 U	0.5 U
Vinyl Chloride	--	2.0 U	--	**4.8**	0.2 U
Vinyl Chloride (by 8260C SIM)	--	**0.31**	--	**4.7**	**0.062**
m-&p-Xylenes	--	5.0 U	--	0.5 U	0.5 U
o-Xylene	--	5.0 U	--	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)					
Sulfate	--	1.0 U	--	1.0 U	1.0 U
Total Organic Carbon	**205**	**259**	**16.3**	**10.1**	**356**
Dissolved Gasses (µg/L; RSK-175)					
Methane	--	**24,000**	--	**2,900**	**25,000**
Ethane	--	1.0 U	--	**1.2 J**	1.0 U
Ethene	--	1.0 U	--	1.0 U	1.0 U
Dissolved Metals (mg/L; EPA 200.8)					
Cadmium	--	--	--	--	--
Nickel	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)					
Diesel Range Organics	--	--	--	--	--
Oil Range Organics	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--

Notes:

Bold text indicates detected analyte.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The compound was not detected at the reported concentration.

UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.

Abbreviations/Acronyms:

EPA = US Environmental Protection Agency
FD = field duplicate
µg/L = micrograms per liter
mg/L = milligrams per liter
N = primary sample
NWTPH = Northwest Total Petroleum Hydrocarbon
PDFD = passive diffusion field duplicate
PDN = passive diffusion primary sample
SDG = sample delivery group
SIM = selected ion monitoring
WT = water table

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW001R	AGW001R	AGW002R	AGW006R	AGW010	AGW024	AGW025	AGW026	AGW027	AGW031R	AGW032	AGW033	AGW037
Zone:	Shallow	Shallow	Shallow	Shallow	Shallow-WT	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow-WT	Shallow-WT	Shallow-WT
Laboratory SDG:	1739706	1739706	1739706	1739706	1739686	1739686	1738357	1739686	1738357	1740154	1738357	1739686	1739686
Sample Date:	11/30/2016	11/30/2016	11/30/2016	11/30/2016	11/29/2016	11/29/2016	11/28/2016	11/29/2016	11/28/2016	12/1/2016	11/28/2016	11/29/2016	11/29/2016
Sample Type:	PDN	PDFD	N	PDN	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 8260C)													
Acetone	50 U	53 U	5.0 U	58 U	50 U	35 U	41 U	54 U	51 U	33 U	11 U	**100**	20 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	5.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	**0.3**	**1.6**	2.0 U	**1.5**	**3.8**	**0.9**	**2.1**	**2.7**	0.2 U	**0.3**	**1.4**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	**630**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	**5.9**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**2.2**	**2.2**	0.2 U	**0.2**	2.0 U	0.2 U	**0.2**	**0.8**	**0.3**	**1.2**	0.2 U	**0.3**	**2.6**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	**1.8**	**1.5**	0.2 U	**0.6**	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	**0.037**	**0.12**	0.040 U	--	--	**0.034**	**0.60**	**0.026**	0.020 U	**0.024**	**0.18**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	**460**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	**66**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	**1.0**	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	**3.2**	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	**10,000**	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx)													
Diesel Range Organics	--	--	--	--	**0.53**	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	0.24 U	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	**10**	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW049	AGW050	AGW053R	AGW055R	AGW057R	AGW060R	AGW064	AGW066	AGW066	AGW067	AGW069	AGW072	AGW073
Zone:	Shallow	Shallow	Shallow-WT	Intermediate	Intermediate	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Intermediate	Deep
Laboratory SDG:	1739686	1739686	1739706	1739706	1739706	1739706	1740154	1739706	1739706	1739706	1740154	1739706	1739706
Sample Date:	11/29/2016	11/29/2016	11/30/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	11/30/2016	11/30/2016
Sample Type:	N	N	PDN	PDN	PDN	PDN	PDN	PDN	PDFD	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	--	--	50 U	59 U	54 U	49 U	37 U	47 U	51 U	38 U	65 U	33 U	13 U
Benzene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	--	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	--	--	0.2 U	**1**	0.2 U	**2.3**	0.2 U	**1.4**	**1.4**	**1.6**	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	--	--	**0.2**	0.2 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	--	--	**1**	**0.5**	**1.5**	**1.0**	**0.3**	**4.3**	**4.3**	**3.7**	0.2 U	**1.3**	**0.2**
Vinyl Chloride	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	0.020 U	**0.053**	--	**0.048**	--	--	--	--	--	--	--
m-&p-Xylenes	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	**0.0124**	**0.0162**	--	--	--	--	--	--	--	--	--	--	--
Nickel	**0.0667**	**0.0164**	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW074	AGW079	AGW085	AGW085	AGW087	AGW088	AGW089	AGW090	AGW091	AGW095R	AGW098R	AGW105	AGW106R
Zone:	Shallow-WT	Shallow	Shallow-WT	Shallow-WT	Intermediate	Shallow-WT	Intermediate	Shallow	Intermediate	Intermediate	Deep	Intermediate	Shallow
Laboratory SDG:	1738357	1739686	1738357	1738357	1738357	1738357	1738357	1738357	1738357	1740154	1739706	1739686	1739706
Sample Date:	11/28/2016	11/29/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016	12/1/2016	11/30/2016	11/29/2016	11/30/2016
Sample Type:	PDN	PDN	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	8.3 U	24 U	57 U	57 U	17 U	51 U	53 U	63 U	54 U	54 U	30 U	57 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.7**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	**0.3**	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1**	**0.5**	**1**	**0.2**
Vinyl Chloride	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.8**	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	--	--	--	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	**0.72**	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	**12.1**
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	**580**
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW110R	AGW112R	AGW115	AGW116	AGW117	AGW118	AGW119	AGW120	AGW125	AGW126	AGW128	AGW129	AGW130
Zone:	Shallow	Shallow	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Intermediate	Shallow	Shallow	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT
Laboratory SDG:	1739706	1739706	1740154	1740154	1738357	1740154	1738357	1738357	1739706	1739706	1740154	1740154	1740154
Sample Date:	11/30/2016	11/30/2016	12/1/2016	12/1/2016	11/28/2016	12/1/2016	11/28/2016	11/28/2016	11/30/2016	11/30/2016	12/1/2016	12/1/2016	12/1/2016
Sample Type:	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	N	PDN	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	37 U	58 U	37 U	49 U	40 U	54 U	53 U	16 U	20 U	5.0 U	16 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**1.1**	**3.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.1**	**7.5**	0.2 U	**0.3**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	**0.2**	0.2 U	**0.5**	**0.6**	**0.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.3**
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	**2.2**	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	**8.7**	**6.2**	0.2 U	**0.6**	**0.3**
Vinyl Chloride	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.15**	**0.070**	**0.44**	--	--	--	0.020 U	0.020 U	**0.025**	**0.073**	0.020 U	--	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	**2.4**	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	**6,000**	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	1.0 U	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	**2.2 J**	--	0.095 U
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	**1.2**	--	0.24 U
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW131	AGW134	AGW135	AGW136	AGW137	AGW138	AGW139	AGW140	AGW141	AGW142	AGW143	AGW144	AGW145
Zone:	Shallow	Shallow	Shallow	Shallow	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Deep	Deep	Intermediate	Intermediate
Laboratory SDG:	1738357	1739686	1739686	1740168	1740168	1740168	1740154	1740154	1740154	1740154	1740168	1740168	1740168
Sample Date:	11/28/2016	11/29/2016	11/29/2016	12/2/2016	12/2/2016	12/2/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/2/2016	12/2/2016	12/2/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	52 U	64 U	45 U	22 U	51 U	32 U	68 U	62 U	13 U	62 U	44 U	54 U	62 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**
cis-1,2-Dichloroethene	**2.0**	0.2 U	**0.5**	**1.2**	**1.9**	0.2 U	**0.2**	**2.0**	**0.4**	0.2 U	0.2 U	**2.0**	**8.0**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	**1.1**
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	**1.5**	**2.8**	**4.3**	**0.7**	**4.0**	**4.3**	**2.2**	0.2 U	0.2 U	**1.2**	**13**
Vinyl Chloride	**5.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	**0.4**	**0.8**
Vinyl Chloride (by 8260C SIM)	--	0.020 U	**0.033**	0.020 U	0.020 U	--	--	**0.39**	--	--	--	**0.38**	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW146	AGW146	AGW147	AGW148	AGW149	AGW149	AGW150	AGW151	AGW152	AGW154	AGW155	AGW156	AGW157
Zone:	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Intermediate	Intermediate	Intermediate	Intermediate
Laboratory SDG:	1740168	1740168	1740168	1740168	1740168	1740168	1739686	1740154	1738357	1739686	1738357	1738357	1740168
Sample Date:	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	11/29/2016	12/1/2016	11/28/2016	11/29/2016	11/28/2016	11/28/2016	12/2/2016
Sample Type:	PDN	PDFD	PDN	PDN	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	37 U	37 U	45 U	47 U	53 U	58 U	65 U	56 U	24 U	49 U	27 U	40 U	22 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**1.9**	**1.8**	**1.2**	**1.7**	**0.4**	**0.4**	0.2 U	0.2 U	0.2 U	**0.5**	**3.9**	**12**	**2.2**
trans-1,2-Dichloroethene	**0.2**	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.6**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**4.5**	**4.4**	0.2 U	**4.1**	**4.0**	**4.1**	**1.4**	**0.5**	0.2 U	**0.4**	0.2 U	**0.8**	**2.8**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**3.2**	0.2 U	**4.7**	**1.6**	**0.4**
Vinyl Chloride (by 8260C SIM)	**0.12**	**0.12**	0.020 U	**0.037**	--	--	--	--	--	**0.024**	--	--	**0.44**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW158	AGW159	AGW160	AGW161	AGW162	AGW163	AGW164	AGW165	AGW166	AGW167	AGW168	AGW169	AGW170
Zone:	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Intermediate	Deep	Intermediate	Deep	Intermediate
Laboratory SDG:	1741261	1741261	1742033	1740168	1740154	1739686	1739686	1739686	1741261	1741261	1742033	1742033	1742036
Sample Date:	12/5/2016	12/5/2016	12/6/2016	12/2/2016	12/1/2016	11/29/2016	11/29/2016	11/29/2016	12/5/2016	12/5/2016	12/6/2016	12/6/2016	12/6/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	46 U	17 U	13 U	54 U	65 U	46 U	23 U	20 U	27 U	51 U	45 U	40 U	54 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.7**	**1**	**0.4**	0.2 U	0.2 U	**1.4**	**0.4**	**1.5**	**0.6**	**2.7**	**1.9**	**1.6**	**0.5**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**2.7**	**4.4**	**3.4**	**1.7**	**0.7**	**4.7**	**1.7**	**2.6**	0.2 U	**5.9**	**5.4**	**6.4**	**2.7**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.042**	**0.095**	--	--	--	**0.032**	**0.065**	**0.18**	**0.22**	**0.17**	**0.059**	**0.049**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW171	AGW172	AGW173	AGW174	AGW175	AGW176	AGW177	AGW178	AGW179	AGW180	AGW181	AGW182	AGW183
Zone:	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Deep	Intermediate	Deep	Intermediate	Intermediate	Deep
Laboratory SDG:	1742036	1741258	1741258	1740168	1742568	1741258	1741261	1741261	1741261	1741261	1739713	1741258	1741258
Sample Date:	12/6/2016	12/5/2016	12/5/2016	12/2/2016	12/7/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	11/30/2016	12/5/2016	12/5/2016
Sample Type:	PDN	PDN	PDN	PDN	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	66 U	26 U	44 U	33 U	5.0 U	47 U	49 U	57 U	75 U	25 U	20 U	42 U	29 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.2**	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**0.4**	0.2 U	0.2 U	**0.4**	**0.4**	**0.9**	**0.5**	**7.6**	**0.8**	**1.2**	**2.6**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.9**	**5.7**	**1.2**	**1.8**	**2.3**	**4.0**	**4.9**	**5.0**	0.2 U	**4.3**	**5.0**	**1.8**	0.2 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	0.020 U	--	--	0.020 U	0.020 U	0.020 U	**0.085**	--	**0.030**	**0.16**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW184	AGW185	AGW186	AGW187	AGW188	AGW188	AGW189	AGW190	AGW191	AGW191	AGW192	AGW193	AGW194
Zone:	Intermediate	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Deep	Shallow	Shallow
Laboratory SDG:	1742033	1740168	1742033	1740168	1739713	1739713	1742033	1740168	1740170	1740170	1740170	1741261	1741261
Sample Date:	12/6/2016	12/2/2016	12/6/2016	12/2/2016	11/30/2016	11/30/2016	12/6/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/5/2016	12/5/2016
Sample Type:	PDN	PDN	PDN	PDN	N	FD	PDN	PDN	PDN	PDFD	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	78 U	82 U	54 U	30 U	**5.9**	5.0 U	49 U	22 U	**30**	**33**	**19**	56 U	47 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	**0.6**	**0.6**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.9**	**0.6**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**0.5**	**2.7**	**0.6**	**2.1**	**4.7**	**4.6**	**0.7**	**1.3**	0.2 U	0.2 U	0.2 U	**3.6**	**2.1**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	--	--	0.020 U	0.020 U	--	--	0.020 U	0.020 U	0.020 U	**0.24**	**0.022**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW195	AGW196	AGW197	AGW198	AGW199	AGW200-2	AGW200-5	AGW200-6	AGW201-2	AGW201-5	AGW201-6	AGW202-2	AGW202-4
Zone:	Deep	Intermediate	Deep	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate
Laboratory SDG:	1741258	1741258	1741258	1741258	1741258	1741262	1741262	1741262	1741262	1742568	1741262	1741262	1741262
Sample Date:	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/7/2016	12/5/2016	12/5/2016	12/5/2016
Sample Type:	PDN	PDN	PDN	PDN	PDN	N	N	N	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	68 U	76 U	72 U	84 U	44 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	**0.3**	**0.2**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.9**	**4.7**	**1.2**	**0.6**	**1.5**	**2.0**	**6.1**	**2.3**	**3.2**	**3.9**	**4.6**	**2.8**	**1.4**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.6**	**0.4**	**0.2**	**0.3**	**0.4**	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**8.1**	0.2 U	**11**	**8.4**	**9.0**	**0.3**	**1.8**	**0.4**	**0.6**	**4.0**	**8.2**	**1.6**	**3.4**
Vinyl Chloride	0.2 U	**1.8**	0.2 U	0.2 U	0.2 U	**1.3**	**1.1**	**0.7**	**2.0**	**0.7**	**0.4**	**0.8**	**0.3**
Vinyl Chloride (by 8260C SIM)	0.020 U	--	--	0.020 U	**0.027**	--	--	--	--	--	**0.46**	**0.98**	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW202-6	AGW203-2	AGW203-4	AGW203-6	AGW206	AGW207-2	AGW207-4	AGW207-7	AGW208-2	AGW208-4	AGW208-6	AGW209-2	AGW209-5
Zone:	Deep	Shallow	Intermediate	Deep	Intermediate	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate
Laboratory SDG:	1741262	1742568	1742568	1742568	1738357	1742036	1742036	1742036	1742036	1742036	1742036	1742036	1742036
Sample Date:	12/5/2016	12/7/2016	12/7/2016	12/7/2016	11/28/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016
Sample Type:	N	N	N	N	PDN	N	N	N	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	61 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	**0.3**
cis-1,2-Dichloroethene	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	**5.4**	**2.1**	**0.7**	**5.5**	**3.8**	**0.9**	0.2 U	**1.6**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	**0.4**	**0.4**	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.0**	**0.9**	**3.0**	**0.2**	**0.7**	**6.9**	**6.4**	**5.9**	**3.2**	**2.0**	**5.3**	0.2 U	**2.4**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	**0.8**	0.2 U	0.2 U	**1.5**	**0.9**
Vinyl Chloride (by 8260C SIM)	--	--	--	--	--	**0.23**	**0.30**	**0.030**	--	**0.090**	--	--	**1.1**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW209-6	AGW210-5	AGW210-6	AGW211-5	AGW211-5	AGW211-6	AGW212-5	AGW212-7	AGW213	AGW214	AGW214	AGW215	AGW216
Zone:	Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Intermediate	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate
Laboratory SDG:	1742036	1742036	1742036	1742568	1742568	1742036	1742568	1742568	1739713	1742567	1742567	1742567	1742567
Sample Date:	12/6/2016	12/6/2016	12/6/2016	12/7/2016	12/7/2016	12/6/2016	12/7/2016	12/7/2016	11/30/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016
Sample Type:	N	N	N	N	FD	N	N	N	PDN	N	FD	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	89 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.9**	**1.8**	**0.3**	**1.3**	**1.3**	**1.2**	0.2 U	0.2 U	0.2 U	**0.3**	**0.4**	0.2 U	**0.2**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**5.3**	**1.5**	**4.6**	**3.4**	**3.4**	**1.2**	**2.0**	**4.6**	0.2 U	**2.9**	**2.9**	0.2 U	**1**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.048**	**0.053**	--	0.020 U	0.020 U	--	--	--	0.020 U	**0.022**	**0.022**	0.020 U	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW217	AGW218	AGW219	AGW220	AGW221	AGW222	AGW225	AGW226	AGW227	AGW228	AGW229	AGW230	AGW231
Zone:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Intermediate	Shallow	Shallow-WT	Deep	Shallow
Laboratory SDG:	1742567	1742567	1742033	1742567	1742567	1740154	1740170	1742568	1742034	1742034	1742033	1742033	1741258
Sample Date:	12/7/2016	12/7/2016	12/6/2016	12/7/2016	12/7/2016	12/1/2016	12/2/2016	12/7/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/5/2016
Sample Type:	N	N	PDN	N	N	PDN	N	N	PDN	N	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	5.0 U	11 U	5.0 U	5.0 U	39 U	5.0 U	5.0 U	**140**	5.0 U	66 U	55 U	78 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.2**	**0.4**	0.2 U	**0.2**	0.2 U	0.2 U	**4.8**	**4.0**	**3.0**	**3.2**	**2.2**	0.2 U	**1**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.3**	**0.4**	**0.4**	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.6**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.9**	**3.7**	0.2 U	**0.4**	0.2 U	**0.6**	**2.4**	**2.6**	**2.6**	**2.9**	**2.3**	**1.2**	**0.7**
Vinyl Chloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	**0.5**	**0.2**	**0.2**	0.2 U	0.2 U	**2.3**
Vinyl Chloride (by 8260C SIM)	**0.025**	**0.022**	0.020 U	0.020 U	0.020 U	--	**0.44**	**0.73**	**0.30**	**0.31**	**0.063**	--	--
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	**4.7**	**7.6 J**	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	**3.4**	**2.4 J**	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	**280**	**920**	--	--	--	--	--
Ethane	--	--	--	--	--	--	1.0 U	1.0 U	--	--	--	--	--
Ethene	--	--	--	--	--	--	1.0 U	1.0 U	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW232	AGW233	AGW234	AGW235-2	AGW235-4	AGW235-7	AGW236	AGW237	AGW238	AGW239	AGW240-1	AGW240-5	AGW241-1
Zone:	Shallow	Deep	Deep	Shallow	Intermediate	Deep	Shallow	Deep	Intermediate	Shallow	Shallow-WT	Shallow	Shallow-WT
Laboratory SDG:	1741258	1740168	1741258	1742034	1742034	1742034	1741258	1742033	1742033	1742033	1739713	1739713	1739713
Sample Date:	12/5/2016	12/2/2016	12/5/2016	12/6/2016	12/6/2016	12/6/2016	12/5/2016	12/6/2016	12/6/2016	12/6/2016	11/30/2016	11/30/2016	11/30/2016
Sample Type:	PDN	PDN	PDN	N	N	N	PDN	PDN	PDN	PDN	N	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	70 U	39 U	44 U	5.0 U	5.0 U	5.0 U	32 U	**100**	**120**	93 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	**1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	**0.3**	0.2 U	**0.4**	0.2 U	**0.3**	0.2 U	0.2 U	**1.0**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**4.4**	0.2 U	**1.8**	**2.1**	**10**	0.2 U	**6.5**	**1.0**	0.2 U	**5.1**	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.3**	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.2**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	**8.3**	0.2 U	**3.9**	0.2 U	**0.9**	**1.7**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	**2.8**	0.2 U	0.2 U	**2.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	--	--	**0.054**	**3.0**	**0.16**	--	**0.072**	**0.041**	0.020 U	**0.46**	**0.13**	**0.10**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	1.0 U	1.0 U	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	**7.3**	**6.2 J**	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	**14,000**	**28,000**	--
Ethane	--	--	--	--	--	--	--	--	--	--	**2.5 J**	**3.7 J**	--
Ethene	--	--	--	--	--	--	--	--	--	--	1.0 U	1.0 U	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW241-5	AGW242-1	AGW242-2	AGW242-5	AGW243-1	AGW243-3	AGW243-5	AGW244	AGW244	AGW245	AGW246	AGW247-1	AGW247-5
Zone:	Shallow	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Shallow-WT	Shallow
Laboratory SDG:	1739713	1739144	1739144	1739144	1739713	1739713	1739713	1740158	1740158	1740158	1740158	1740158	1740158
Sample Date:	11/30/2016	11/29/2016	11/29/2016	11/29/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016
Sample Type:	N	N	N	N	N	N	N	N	FD	PDN	PDN	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.6**
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.7**
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	0.2 U	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**3.7**	**3.6**
Vinyl Chloride (by 8260C SIM)	0.020 U	**0.36**	--	--	**0.039**	--	--	0.020 U	0.020 U	0.020 U	0.020 U	**4.0**	**4.0**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	**13.2**	**13.0**	--	--	1.0 U	1.0 U
Total Organic Carbon	--	--	--	--	--	--	--	**3.8**	**3.7**	--	--	**13.2**	**5.7**
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	**54**	**56**	--	--	**4,200**	**1,400**
Ethane	--	--	--	--	--	--	--	1.0 U	1.0 U	--	--	1.0 U	1.0 U
Ethene	--	--	--	--	--	--	--	1.0 U	1.0 U	--	--	1.0 U	1.0 U
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW248-1	AGW248-5	AGW249-1	AGW249-5	AGW250-1	AGW250-2	AGW250-3	AGW250-6	AGW251-1	AGW251-2	AGW251-3	AGW251-6	AGW252
Zone:	Shallow-WT	Shallow	Shallow-WT	Shallow	Shallow-WT	Shallow	Intermediate	Deep	Shallow-WT	Shallow	Intermediate	Deep	Deep
Laboratory SDG:	1740158	1740158	1740170	1740170	1741261	1741261	1741261	1741261	1740170	1740170	1740170	1740170	1742033
Sample Date:	12/1/2016	12/1/2016	12/2/2016	12/2/2016	12/5/2016	12/5/2016	12/5/2016	12/5/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/6/2016
Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	**15 J**	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	61 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**2.0**	0.2 U	**2.3**	0.2 U	**0.3**	**0.7**	0.2 U	0.2 U	0.2 U	**1.2**	**0.3**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**3.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U
Trichloroethene	0.2 U	**4.7**	0.2 U	**6.8**	0.2 U	**0.2**	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.0**	**6.1**	**0.3**	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.024**	**0.19**	**1.2**	**0.12**	0.020 U	**0.031**	**0.049**	0.020 U	**0.037**	**2.3**	**6.8**	**0.30**	0.020 U
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	**281**	1.0 U	1.0 U	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	**11.5**	**6.8**	**6.1**	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	**59**	**2,800**	**2,000**	--	--
Ethane	--	--	--	--	--	--	--	--	1.0 U	1.0 U	1.0 U	--	--
Ethene	--	--	--	--	--	--	--	--	1.0 U	**2.1 J**	1.0 U	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW254-1	AGW254-2	AGW254-5	AGW255-1	AGW255-3	AGW255-5	AGW256	AGW257	AGW258	AGW259	AGW260	AGW261	AGW262
Zone:	Shallow-WT	Shallow	Intermediate	Shallow-WT	Shallow	Intermediate	Intermediate	Shallow	Shallow	Deep	Deep	Shallow	Shallow-WT
Laboratory SDG:	1742034	1742034	1742034	1742034	1742034	1742034	1738357	1738357	1738357	1742033	1739144	1740170	1740158
Sample Date:	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	12/6/2016	11/28/2016	11/28/2016	11/28/2016	12/6/2016	11/29/2016	12/2/2016	12/1/2016
Sample Type:	N	N	N	N	N	N	PDN	PDN	PDN	PDN	PDN	PDN	PDN
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	16 U	89 U	54 U	54 U	45 U	54 U	**95 J**
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**2.8**	**1.4**	**0.9**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.3**	0.2 U
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	0.2 U	0.2 U	0.2 U	**0.7**	0.2 U	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U	0.2 U	**2.8**	0.2 U
Vinyl Chloride	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	**0.2**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl Chloride (by 8260C SIM)	0.020 U	**0.048**	0.020 U	**0.27**	**0.22**	**0.25**	--	--	--	0.020 U	0.020 U	**0.15**	**0.10**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW263	AGW263	AGW264	AGW265	AGW266	AGW267	AGW268	AGW269	AGW270	AGW271	AGW272	AGW273	AGW274
Zone:	Shallow-WT	Shallow-WT	Deep	Intermediate	Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Laboratory SDG:	1740170	1740170	1739144	1739144	1739713	1740158	1740158	1739144	1738371	1739144	1738371	1739144	1739144
Sample Date:	12/2/2016	12/2/2016	11/29/2016	11/29/2016	11/30/2016	12/1/2016	12/1/2016	11/29/2016	11/28/2016	11/29/2016	11/28/2016	11/29/2016	11/29/2016
Sample Type:	PDN	PDFD	PDN	PDN	PDN	PDN	PDN	N	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 826													
Acetone	**83**	**86**	67 U	52 U	**180**	68 U	54 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,2-Dichloroethene	**5.6**	**5.7**	0.2 U	0.2 U	**0.5**	0.2 U	0.2 U	**0.3**	**2.2**	**2.5**	**6.0**	**2.4**	0.2 U
trans-1,2-Dichloroethene	**0.5**	**0.5**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.3**	**0.4**	**0.5**	**0.7**	**0.5**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.5**	**0.6**	**1**	0.2 U	0.2 U	0.2 U
Trichloroethene	**1.4**	**1.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	0.2 U
Vinyl Chloride	**0.3**	**0.3**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**4.9**	**3.2**	**3.9**	**1.3**	**4.8**	**0.7**
Vinyl Chloride (by 8260C SIM)	**0.37**	**0.34**	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	**4.9**	**2.9**	**3.9**	**1.2**	**4.6**	**0.64**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)													
Sulfate	--	--	--	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Organic Carbon	--	--	--	--	--	--	--	**9.6**	**38.7**	**14.0**	**4.0**	**6.4**	**8.2**
Dissolved Gasses (µg/L; RSK-175)													
Methane	--	--	--	--	--	--	--	**35,000**	**30,000**	**36,000**	**700**	**3,600**	**13,000**
Ethane	--	--	--	--	--	--	--	**5.9**	1.0 U	1.0 U	1.0 U	**1.2 J**	**4.6 J**
Ethene	--	--	--	--	--	--	--	**1.1 J**	**1.4 J**	1.0 U	1.0 U	**1.3 J**	**1.6 J**
Dissolved Metals (mg/L; EPA 200.8)													
Cadmium	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx													
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1-3
4Q2016 Groundwater Analytical Results - Detections Only
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW275	AGW276-2	AGW276-5	AGW276-6	APP-057	APP-057	IW33	IW34	IW35	IW36	IW37
Zone:	Shallow	Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Laboratory SDG:	1739144	1740158	1740158	1740158	1742567	1742567	1738371	1738371	1738371	1738371	1738371
Sample Date:	11/29/2016	12/1/2016	12/1/2016	12/1/2016	12/7/2016	12/7/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016
Sample Type:	N	N	N	N	N	FD	N	N	N	N	N
Volatile Organic Compounds (µg/L; SW-846 826											
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	50 U	--	5.0 U	**90**
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
2-Butanone/MEK	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	--	**56**	--	5.0 U	**200**
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	5.0 U	--	0.5 U	0.5 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
cis-1,2-Dichloroethene	0.2 U	**2.0**	**7.1**	**2.1**	0.2 U	0.2 U	--	**6.1**	--	**1.7**	**2.7**
trans-1,2-Dichloroethene	**0.2**	**0.2**	**0.5**	0.2 U	0.2 U	0.2 U	--	2.0 U	--	**0.4**	0.2 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	5.0 U	--	0.5 U	0.5 U
Tetrachloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	**990**	--	0.2 U	0.2 U
Trichloroethene	0.2 U	**0.4**	0.2 U	**3.0**	0.2 U	0.2 U	--	2.0 U	--	0.2 U	0.2 U
Vinyl Chloride	0.2 U	**1.3**	**0.8**	0.2 U	0.2 U	0.2 U	--	2.0 U	--	**4.8**	0.2 U
Vinyl Chloride (by 8260C SIM)	**0.055**	**1.5**	**0.84**	**0.13**	0.020 U	0.020 U	--	**0.31**	--	**4.7**	**0.062**
m-&p-Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	5.0 U	--	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	5.0 U	--	0.5 U	0.5 U
Conventionals (mg/L; EPA 300.0, SM 5310C)											
Sulfate	1.0 U	--	--	--	--	--	--	1.0 U	--	1.0 U	1.0 U
Total Organic Carbon	**4.1**	--	--	--	--	--	**205**	**259**	**16.3**	**10.1**	**356**
Dissolved Gasses (µg/L; RSK-175)											
Methane	**16,000**	--	--	--	--	--	--	**24,000**	--	**2,900**	**25,000**
Ethane	**6.5**	--	--	--	--	--	--	1.0 U	--	**1.2 J**	1.0 U
Ethene	1.0 U	--	--	--	--	--	--	1.0 U	--	1.0 U	1.0 U
Dissolved Metals (mg/L; EPA 200.8)											
Cadmium	--	--	--	--	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	--	--	--	--	--
Petroleum Hydrocarbons (mg/L; NWTPH-Dx/Gx											
Diesel Range Organics	--	--	--	--	--	--	--	--	--	--	--
Oil Range Organics	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	--	--	--

Bold text indicates detected analyte.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U = The compound was not detected at the reported concentration.
UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.

EPA = US Environmental Protection Agency
FD = field duplicate
µg/L = micrograms per liter
mg/L = milligrams per liter
N = primary sample
PDN = passive diffusion primary sample

PDFD = passive diffusion field duplicate
NWTPH-Dx = Method Northwest Diesel-Range Total Petroleum Hydrocarbon-Extended
NWTPH-Gx = Method Northwest Gasoline-Range Total Petroleum Hydrocarbon-Extended
SDG = sample delivery group
SIM = selected ion monitoring
WT = water table

Table 1-4
One-Time Sampling Analytical Results
Boeing Auburn Facility
Auburn, Washington

Sample Location:	AGW026		AGW028		AGW028		AGW202-1	
Laboratory SDG:	1744351		1744352		1744352		1744352	
Sample Date:	12/12/2016		12/12/2016		12/12/2016		12/12/2016	
Sample Type:	N		N		FD		N	
Petroleum Hydrocarbons (µg/L; NWTPH-Dx Modified)								
Diesel Range Organics (C12-C24)	94	U	94	U	94	U	**200**	
Oil Range Organics (C24-C40)	230	U	230	U	230	U	240	U

Notes:

Bold text indicates detected analyte.

U = The compound was not detected at the reported concentration.

Abbreviations/Acronyms:

FD = field duplicate

µg/L = micrograms per liter

N = primary sample

NWTPH-Dx = Method Northwest Diesel-Range Total Petroleum Hydrocarbon- Extended

SDG = sample delivery group

Attachment 2

Pilot Test Results

G:\Projects\025\16413.40\501\Quarterly Report\F2-1PilotTestWellLocations.mxd 1/6/2017

Legend

- Offsite Water Table Well
- Shallow Monitoring Well
- Shallow Observation Well (not part of ongoing monitoring)
- Shallow Injection Well
- Shallow Injection Well (not part of ongoing monitoring)
- Waterways

Notes

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 120 240

Scale in Feet

N

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2016

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Pilot Test Well Locations

Figure
2-1

DRAFT

Table 2-1
Data Summary
Algona Bioremediation Pilot Test
Boeing Auburn Facility

Well	Aquifer Zone	Date	Elapsed Time from Injection (days)	Volatile Organic Compounds									Aquifer Redox Conditions							Donor Indicators	Total cVOC (nmol/L)	Molar Fraction				
				PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	11DCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	Acetylene (µg/L)	DO (mg/L)	ORP (mV)	Iron II (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Aquifer Redox State	TOC (mg/L)		PCE	TCE	Total DCE	VC	Ethene+ Ethane
AGW225	WT	12/1/2014	-277	<0.2	2.3	5.7	0.6	<0.2	0.5	<1.0	<1.0	<1.0	1.20	-76.8	2.6	4.8	<0.16	290	Fe/S	3.7	90	0.00	0.19	0.72	0.09	0.00
		8/14/2015	-21	<0.2	1.9	5.1	0.5	<0.2	0.49	<1.0	<1.0	<1.0	1.39	213.3	6.4	4.1	<0.16	360	Fe/S	4.2	80	0.00	0.18	0.72	0.10	0.00
		12/8/2015	95	<0.2	2.1	4.8	0.5	<0.2	0.5	<1.0	<1.0	<1.0	2.0	-54.7	4.0	4.2	<0.16	170	Fe/S	3.8	79	0.00	0.20	0.70	0.10	0.00
		3/2/2016	180	<0.2	1.9	4.6	0.4	<0.2	0.54	<1.0	<1.0	<1.0	0.73	-14	2.5	3.3	<0.16	420	Fe/S	4.3	75	0.00	0.19	0.69	0.12	0.00
		6/23/2016	293	<0.2	2.3	4.4	0.5	<0.2	0.5	<1.0	<1.0	<1.0	3.40	271	2.0	4.9	<0.10	330	Fe/S	3.6	76	0.00	0.23	0.66	0.11	0.00
		9/8/2016	370	<0.2	2.0	4.4	0.5	<0.2	0.46	<1.0	<1.0	<1.0	0.48	-6.0	2.5	5.7	<0.10	340	Fe/S	4.3	73	0.00	0.21	0.69	0.10	0.00
		12/2/2016	455	<0.2	2.4	4.8	0.5	<0.2	0.44	<1.0	<1.0	--	0.96	4.5	5.0	4.7	--	280	Fe/S	3.4	80	0.00	0.23	0.68	0.09	0.00
AGW226	WT	8/14/2015	-21	<0.2	4.1	3.1	0.3	<0.2	0.56	<1.0	<1.0	<1.0	0.55	-12.2	2.0	8.0	<0.16	970	S/M	2.6	75	0.00	0.41	0.47	0.12	0.00
		12/2/2015	89	<0.2	0.5	1.8	<0.2	<0.2	0.4	<1.0	<1.0	<1.0	7.29	-26.1	2.0	7.8	<0.16	1000	S/M	5.5	29	0.00	0.13	0.65	0.22	0.00
		3/3/2016	181	<0.2	3.6	3.1	0.3	<0.2	0.54	<1.0	<1.0	<1.0	0.54	-28.45	2.5	6.5	<0.16	1300	S/M	2.4	71	0.00	0.39	0.49	0.12	0.00
		6/21/2016	291	<0.2	1	4.8	0.3	<0.2	0.7	<1.0	<1.0	<1.0	0.44	177	2.0	7.4	<0.10	1200	S/M	2.7	71	0.00	0.11	0.74	0.16	0.00
		9/8/2016	370	<0.2	1.1	3.8	0.3	<0.2	0.90	<1.0	<1.0	<1.0	0.70	82.5	0.0	17.6	<0.10	1100	S/M	4.2	65	0.00	0.13	0.65	0.22	0.00
		12/7/2016	460	<0.2	2.6	4.0	0.3	<0.2	0.73	<1.0	<1.0	--	1.67	45.1	3.0	7.6	--	920	S/M	2.4	64	0.00	0.31	0.69	0.00	0.00
AGW240-1	WT	12/1/2014	-277	<0.020	<0.2	<0.2	0.3	<0.2	0.3	<1.0	3.5	<1.0	1.32	-169.5	2.7	<1.0	<0.16	3200	M	8.6	8	0.00	0.00	0.02	0.04	0.94
		8/14/2015	-21	<0.020	<0.2	<0.2	0.2	<0.2	0.049	<1.0	2.5	<1.0	0.54	-67.3	1.8	<1.0	<0.16	2900	M	8.1	3	0.00	0.00	0.02	0.01	0.97
		12/7/2015	94	<0.02	<0.2	<0.2	<0.2	<0.2	0.3	<1.0	3.1	<1.0	1.89	-83.3	2.5	<1.0	<0.16	2800	M	7.5	5	0.00	0.00	0.00	0.04	0.96
		3/3/2016	181	<0.2	<0.2	<0.2	<0.2	<0.2	1	<1.0	3.2	<1.0	0.73	-13.23	5.0	<1.0	<0.16	2900	M	7.9	16	0.00	0.00	0.00	0.13	0.87
		6/15/2016	285	<0.2	<0.2	<0.2	<0.2	<0.2	0.11	<1.0	3.4	<1.0	1.9	-42.5	1.5	<1.0	<0.10	5700	M	7.5	2	0.00	0.00	0.00	0.02	0.98
		9/8/2016	370	<0.2	<0.2	<0.2	<0.2	<0.2	0.091	<1.0	4.2	<1.0	0.60	-45.4	4.5	<1.0	<0.10	8900	M	7.7	1	0.00	0.00	0.00	0.01	0.99
		11/30/2016	453	<0.2	<0.2	<0.2	<0.2	<0.2	0.13	<1.0	2.5	--	0.64	-22.4	7.0	<1.0	--	14000	M	7.3	2	0.00	0.00	0.00	0.02	0.98
AGW240-5	SZ	12/1/2014	-277	<0.020	<0.2	4.9	0.7	<0.2	6.6	<1.0	1.0	<1.0	0.51	-116.1	2.8	<1.0	<0.16	2200	M	6.6	163	0.00	0.00	0.29	0.54	0.17
		8/14/2015	-21	<0.020	<0.2	3.3	0.4	<0.2	5.6	1.2	<1.0	<1.0	0.77	-41.7	2.8	<1.0	<0.16	2000	M	5.4	128	0.00	0.00	0.22	0.53	0.25
		12/7/2015	94	<0.02	<0.2	1.8	0.3	<0.2	4.3	1.3	1.3	<1.0	0.81	-86.8	6.0	<1.0	<0.16	2200	M	6.5	90	0.00	0.00	0.12	0.38	0.50
		3/3/2016	181	<0.2	<0.2	1.7	0.3	<0.2	3.1	<1.0	<1.0	<1.0	0.55	-19.15	6.0	<1.0	<0.16	1700	M	6.9	70	0.00	0.00	0.29	0.71	0.00
		6/15/2016	285	<0.2	<0.2	0.3	0.3	<0.2	2.5	2	2.3	<1.0	0.33	-40.8	3.0	<1.0	<0.10	8100	M	20.2	46	0.00	0.00	0.03	0.21	0.76
		9/8/2016	370	<0.2	<0.2	<0.2	0.2	<0.2	0.20	<1.0	3.7	<1.0	0.36	-48.8	4.0	<1.0	<0.10	31000	M	5.7	5	0.00	0.00	0.02	0.02	0.96
		11/30/2016	453	<0.2	<0.2	<0.2	0.2	<0.2	0.10	<1.0	3.7	--	0.51	-34.4	8.0	<1.0	--	28000	M	6.2	4	0.00	0.00	0.02	0.01	0.97
AGW244	WT	12/1/2016	454	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	<1.0	<1.0	--	0.96	20.1	0.0	13.2	--	54	N	3.8	0	0.00	0.00	0.00	0.00	0.00
AGW247-1	WT	12/2/2014	-276	<0.020	<0.2	0.8	<0.2	<0.2	0.17	<1.0	1.0	<1.0	0.64	-76.1	2.5	6.3	<0.16	3600	S/M	57.4	11	0.00	0.00	0.19	0.06	0.75
		8/14/2015	-21	<0.020	<0.2	3.4	0.4	<0.2	2.5	<1.0	<1.0	<1.0	0.49	-61.4	3.4	<1.0	<0.16	5200	M	9.6	79	0.00	0.00	0.49	0.51	0.00
		12/2/2015	89	<0.020	<0.2	1.5	0.3	<0.2	2.1	<1.0	<1.0	<1.0	4.32	-101.2	5.5	1.1	<0.16	6900	M	13.2	52	0.00	0.00	0.36	0.64	0.00
		3/2/2016	180	<0.2	<0.2	0.9	0.4	<0.2	4	<1.0	<1.0	<1.0	0.44	-32.23	6.0	<1.0	<0.16	7100	M	9.4	77	0.00	0.00	0.17	0.83	0.00
		6/15/2016	285	<0.2	<0.2	<0.2	0.5	<0.2	4.9	<1.0	<1.0	<1.0	0.43	-49.5	2.5	<1.0	<0.10	6100	M	9.7	84	0.00	0.00	0.06	0.94	0.00
		9/8/2016	370	<0.2	<0.2	<0.2	0.4	<0.2	4.7	<1.0	<1.0	<1.0	0.62	-48.6	2.5	1.3	<0.10	4200	M	11.1	79	0.00	0.00	0.05	0.95	0.00
		12/1/2016	454	<0.2	<0.2	<0.2	0.3	<0.2	4.0	<1.0	<1.0	--	0.74	-8.5	5.0	<1.0	--	4200	M	13.2	67	0.00	0.00	0.05	0.95	0.00
AGW247-5	SZ	12/2/2014	-276	<0.020	<0.2	6.6	0.7	<0.2	1.7	<1.0	1.7	<1.0	0.22	-136	5.0	<1.0	<0.16	4000	M	21.3	103	0.00	0.00	0.47	0.17	0.36
		8/14/2015	-21	<0.020	<0.2	4.7	0.8	<0.2	3.0	<1.0	<1.0	<1.0	0.54	-90.3	2.4	1.1	<0.16	3400	M	6.2	105	0.00	0.00	0.54	0.46	0.00
		12/2/2015	89	<0.020	<0.2	2.9	0.7	<0.2	4.0	<1.0	<1.0	<1.0	4.76	-97.4	4.5	<1.0	<0.16	2100	M	6.7	101	0.00	0.00	0.37	0.63	0.00
		3/3/2016	181	<0.2	<0.2	2.2	0.7	<0.2	4.5	<1.0	<1.0	<1.0	0.51	-63.1	6.5	<1.0	<0.16	2000	M	5.7	102	0.00	0.00	0.29	0.71	0.00
		6/15/2016	285	<0.2	<0.2	1.8	0.8	<0.2	4.4	<1.0	<1.0	<1.0	0.34	-72.1	2.0	<1.0	<0.10	2300	M	5.4	97	0.00	0.00	0.28	0.72	0.00
		9/8/2016	370	<0.2	<0.2	1.3	0.6	<0.2	3.9	<1.0	<1.0	<1.0	0.34	-77.9	3.5	1.6	<0.10	1300	M	6.7	82	0.00	0.00	0.24	0.76	0.00
		12/1/2016	454	<0.2	<0.2	1.6	0.7	<0.2	4.0	<1.0	<1.0	--	0.65	-69.2	4.0	<1.0	--	1400	M	5.7	88	0.00	0.00	0.27	0.73	0.00
AGW251-1	WT	12/2/2014	-276	<0.020	<0.2	<0.2	<0.2	<0.2	1.8	2.2	5.8	<1.0	0.83	-73.1	3.4	37.2	<0.16	16000	S/M	27.3	29	0.00	0.00	0.00	0.10	0.90
		8/14/2015	-21	<0.020	<0.2	<0.2	<0.2	<0.2	0.62	<1.0	<1.0	<1.0	4.51	208.8	6.8	1.3	<0.16	140	Fe/S	16.9	10	0.00	0.00	0.00	1.00	0.00
		12/3/2015	90	<0.020	<0.2	<0.2	<0.2	<0.2	0.23	<1.0	<1.0	<1.0	12.0	-60.5	1.0	280	<0.16	440	Fe/S	8.9	4	0.00	0.00	0.00	1.00	0.00
		3/3/2016	181	<0.2	<0.2	<0.2	<0.2	<0.2	0.15	<1.0	<1.0	<1.0	0.85	41.55	1.0	117	<0.16	560	Fe/S	33.8	2	0.00	0.00	0.00	1.00	0.00
		6/20/2016	290	<0.2	<0.2	<0.2	<0.2	<0.2	1.1	<1.0	<1.0	<1.0	0.83	124.4	2.0	20.7	<2.0	1800	S/M	11	18	0.00	0.00	0.00	1.00	0.00
		9/6/2016	368	<0.2	<0.2	<0.2	<0.2	<0.2	1.6	1.3	<1.0	<1.0	2.19	-78.2	4.5	4.3	<0.10	1100	S/M	13.1	26	0.00	0.00	0.00	0.36	0.64
		12/2/2016	455	<0.2	<0.2	<0.2	<0.2	<0.2	0.037	<1.0	<1.0	--	1.71	27.9	1.0	281	--	59	Fe/S	11.5	1	0.00	0.00	0.00	1.00	0.00

DRAFT

Table 2-1
Data Summary
Algona Bioremediation Pilot Test
Boeing Auburn Facility

Well	Aquifer Zone	Date	Elapsed Time from Injection (days)	Volatile Organic Compounds									Aquifer Redox Conditions							Donor Indicators	Total cVOC (nmol/L)	Molar Fraction				
				PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	11DCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	Acetylene (µg/L)	DO (mg/L)	ORP (mV)	Iron II (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Aquifer Redox State	TOC (mg/L)		PCE	TCE	Total DCE	VC	Ethene+ Ethane
AGW251-2	SZ	12/2/2014	-276	<0.020	<0.2	2.0	0.2	<0.2	4.7	3.2	5.9	<1.0	0.49	-141.9	4.0	1.1	<0.16	8500	M	11.2	98	0.00	0.00	0.06	0.18	0.76
		8/14/2015	-21	<0.020	<0.2	<0.2	<0.2	<0.2	5.7	2.2	1.6	<1.0	0.94	210.6	5.2	2.1	<0.16	4800	M	7.1	91	0.00	0.00	0.00	0.41	0.59
		12/3/2015	90	<0.020	<0.2	<0.2	<0.2	<0.2	3.9	1.8	1.1	<1.0	13.38	-109.1	6.0	1.2	<0.16	3900	M	6.8	62	0.00	0.00	0.00	0.38	0.62
		3/3/2016	181	<0.2	<0.2	<0.2	<0.2	<0.2	4.9	1.9	1.1	<1.0	0.56	-99.13	1.5	1.9	<0.16	2900	M	7.2	78	0.00	0.00	0.00	0.43	0.57
		6/20/2016	290	<0.2	<0.2	<0.2	<0.2	<0.2	2.7	2.7	1.1	<1.0	0.56	48.8	2.0	<1.0	<2.0	3700	M	8.1	43	0.00	0.00	0.00	0.25	0.75
		9/8/2016	370	<0.2	<0.2	<0.2	<0.2	<0.2	1.8	2.6	1.3	<1.0	0.73	-81.8	2.0	<1.0	<0.10	3300	M	8.1	29	0.00	0.00	0.00	0.17	0.83
		12/2/2016	455	<0.2	<0.2	<0.2	<0.2	<0.2	2.3	2.1	<1.0	--	1.09	-56.9	5.0	<1.0	--	2800	M	6.8	37	0.00	0.00	0.00	0.33	0.67
AGW251-3	IZ	12/2/2014	-276	<0.020	<0.2	5.9	0.5	<0.2	4.3	<1.0	1.2	<1.0	1.09	-112.2	3.1	<1.0	<0.16	2500	M	7.6	135	0.00	0.00	0.38	0.39	0.23
		8/14/2015	-21	<0.020	<0.2	3.0	0.2	<0.2	5.0	<1.0	<1.0	<1.0	1.51	209.7	5.8	<1.0	<0.16	2200	M	6.3	113	0.00	0.00	0.29	0.71	0.00
		12/3/2015	90	<0.020	<0.2	3.0	<0.2	<0.2	5.0	<1.0	<1.0	<1.0	10.63	-93.7	6.0	<1.0	<0.16	2100	M	6.1	111	0.00	0.00	0.28	0.72	0.00
		3/3/2016	181	<0.2	<0.2	1.2	<0.2	<0.2	7.8	<1.0	<1.0	<1.0	0.59	-50.43	2.0	<1.0	<0.16	2600	M	7.3	137	0.00	0.00	0.09	0.91	0.00
		6/20/2016	290	<0.2	<0.2	1.2	<0.2	<0.2	6.1	<1.0	<1.0	<1.0	0.45	78.3	2.0	<1.0	<2.0	2600	M	8.1	110	0.00	0.00	0.11	0.89	0.00
		9/8/2016	370	<0.2	<0.2	0.9	<0.2	<0.2	5.1	<1.0	<1.0	<1.0	0.68	-38.6	3.5	<1.0	<0.10	2100	M	6.7	91	0.00	0.00	0.10	0.90	0.00
		12/2/2016	455	<0.2	<0.2	1.2	<0.2	<0.2	6.8	<1.0	<1.0	--	1.05	-21.2	5.0	<1.0	--	2000	M	6.1	121	0.00	0.00	0.10	0.90	0.00
AGW269	SZ	8/14/2015	-21	<0.020	<0.2	6.7	0.7	<0.2	3.2	<1.0	<1.0	<1.0	0.52	-95.9	1.0	1.9	<0.16	1300	M	9.1	128	0.00	0.00	0.60	0.40	0.00
		12/7/2015	94	<0.020	0.2	7.4	1.2	<0.2	5.1	<1.0	1.7	<1.0	0.36	-49.0	4.0	<1.0	<0.16	26000	M	122	172	0.00	0.01	0.39	0.36	0.25
		3/2/2016	180	<0.2	<0.2	6.5	1	<0.2	5.2	<1.0	2	<1.0	0.27	-43.8	2.0	<1.0	<0.16	15000	M	8.5	161	0.00	0.00	0.34	0.37	0.29
		6/16/2016	286	<0.2	<0.2	1.9	0.6	<0.2	8.7	<1.0	<2.3	<1.0	0.36	-28.1	2.0	<1.0	<0.10	24000	M	8.2	165	0.00	0.00	0.16	0.84	0.00
		9/7/2016	369	<0.2	<0.2	0.6	0.3	<0.2	6.4	1.3	<1.0	<1.0	0.49	-21.7	4.0	<1.0	<0.10	29000	M	9.9	112	0.00	0.00	0.06	0.65	0.29
		11/29/2016	452	<0.2	<0.2	0.3	0.3	<0.2	4.9	1.1	5.9	--	0.67	-7.5	7.0	<1.0	--	35000	M	9.6	85	0.00	0.00	0.02	0.24	0.74
AGW270	SZ	8/13/2015	-22	<0.020	<0.2	7.3	1.0	<0.2	2.2	<1.0	<1.0	<1.0	1.58	199.4	5.8	<1.0	<0.16	750	M	7.2	121	0.00	0.00	0.71	0.29	0.00
		12/7/2015	94	<0.020	1.7	10	1.7	<0.2	1.3	1.5	2.0	<1.0	0.30	-11.0	2.5	<1.0	<0.16	23000	M	682	154	0.00	0.05	0.44	0.08	0.44
		3/2/2016	180	<0.2	0.7	8.8	1	<0.2	1.7	<1.0	2.8	<1.0	0.30	-38.6	6.5	<1.0	<0.16	22000	M	75.2	134	0.00	0.02	0.45	0.12	0.41
		6/16/2016	286	<0.2	0.3	6	0.8	<0.2	2	<1.0	<2.0	<1.0	0.60	-52.4	2.0	<1.0	<0.10	25000	M	46.7	104	0.00	0.02	0.67	0.31	0.00
		9/7/2016	369	<0.2	<0.2	3.3	0.5	<0.2	2.9	1.0	<1.0	<1.0	0.49	-47.9	3.0	1.1	<0.10	22000	M	39.1	86	0.00	0.00	0.32	0.38	0.29
		11/28/2016	451	<0.2	<0.2	2.2	0.4	<0.2	3.2	1.4	<1.0	--	0.47	-26.2	5.0	<1.0	--	30000	M	38.7	78	0.00	0.00	0.21	0.40	0.39
AGW271	SZ	8/13/2015	-22	<0.020	<0.2	6.5	0.7	<0.2	4.6	<1.0	<1.0	<1.0	1.32	204.0	6.2	<1.0	<0.16	2300	M	6.8	148	0.00	0.00	0.50	0.50	0.00
		12/7/2015	94	<0.020	1.2	15	1.8	<0.2	5.9	1.2	1.9	<1.0	0.33	22.2	7.0	<1.0	<0.16	19000	M	971	277	0.00	0.02	0.45	0.25	0.28
		3/2/2016	180	<0.2	1.8	15	2.4	<0.2	2.8	1.5	3	<1.0	0.37	25.8	6.0	<10.0	<0.16	28000	M	1080	238	0.00	0.04	0.46	0.11	0.39
		6/16/2016	286	<0.2	0.3	6.9	0.7	<0.2	2	<1.0	<2.6	<1.0	0.58	-35.8	3.0	<1.0	<0.10	29000	M	48.6	113	0.00	0.02	0.70	0.28	0.00
		9/7/2016	369	<0.2	<0.2	4.4	0.5	<0.2	1.1	<1.0	<1.0	<1.0	0.43	-39.5	2.5	<1.0	<0.10	28000	M	16.9	68	0.00	0.00	0.74	0.26	0.00
		11/29/2016	452	<0.2	<0.2	2.5	0.5	<0.2	3.9	<1.0	<1.0	--	0.72	-25.5	8.0	<1.0	--	36000	M	14.0	93	0.00	0.00	0.33	0.67	0.00
AGW272	SZ	8/13/2015	-22	<0.020	0.2	7.3	0.6	<0.2	0.66	<1.0	<1.0	<1.0	0.49	-55.2	1.8	1.5	<0.16	400	Fe/S	5.4	94	0.00	0.02	0.87	0.11	0.00
		12/7/2015	94	<0.02	0.2	6.4	0.7	<0.2	1.8	<1.0	<1.0	<1.0	1.36	-85.3	4.0	<1.0	<0.16	940	M	3.5	104	0.00	0.01	0.71	0.28	0.00
		3/2/2016	180	<0.2	0.3	5.4	0.5	<0.2	1.2	<1.0	<1.0	<1.0	0.91	-71.43	1.0	1.1	<0.16	460	Fe/S	4.1	82	0.00	0.03	0.74	0.23	0.00
		6/17/2016	287	<0.2	0.3	4.9	0.6	<0.2	2	<1.0	<1.0	<1.0	0.76	-29.8	2.5	1.4	<0.10	450	Fe/S	4.1	91	0.00	0.03	0.62	0.35	0.00
		9/7/2016	369	<0.2	0.3	3.9	0.6	<0.2	2.3	<1.0	<1.0	<1.0	0.42	-37.5	3.0	1.6	<0.10	360	Fe/S	4.9	86	0.00	0.03	0.54	0.43	0.00
		11/28/2016	451	<0.2	0.4	6.0	0.7	<0.2	1.3	<1.0	<1.0	--	1.22	-19.0	5.0	<1.0	--	700	M	4.0	93	0.00	0.03	0.74	0.22	0.00
AGW273	SZ	8/13/2015	-22	<0.020	<0.2	6.3	0.7	<0.2	4.2	<1.0	<1.0	<1.0	1.61	193.0	4.6	<1.0	<0.16	880	M	6.1	139	0.00	0.00	0.52	0.48	0.00
		12/7/2015	94	<0.02	<0.2	3.4	0.6	<0.2	6.0	<1.0	<1.0	<1.0	1.52	-99.3	6.0	<1.0	<0.16	1500	M	6.0	137	0.00	0.00	0.30	0.70	0.00
		3/2/2016	180	<0.2	<0.2	3.5	0.5	<0.2	3.9	<1.0	<1.0	<1.0	0.51	-54.3	1.2	<1.0	<0.16	1300	M	6.1	104	0.00	0.00	0.40	0.60	0.00
		6/17/2016	287	<0.2	<0.2	2.9	5	<0.2	3.9	<1.0	<1.0	<1.0	0.71	24.1	2.0	<1.0	<0.10	1300	M	5.5	144	0.00	0.00	0.57	0.43	0.00
		9/7/2016	369	<0.2	<0.2	2.6	0.5	<0.2	4.2	<1.0	<1.0	<1.0	0.77	-30.9	4.0	<1.0	<0.10	900	M	6.7	99	0.00	0.00	0.32	0.68	0.00
		11/29/2016	452	<0.2	<0.2	2.4	0.5	<0.2	4.8	1.3	1.2	--	1.33	-26.6	6.0	<1.0	--	3600	M	6.4	107	0.00	0.00	0.16	0.40	0.45
AGW274	SZ	8/13/2015	-22	<0.020	<0.2	<0.2	<0.2	<0.2	4.0	2.3	<1.0	<1.0	0.54	-36.6	3.6	<1.0	<0.16	1900	M	7.5	64	0.00	0.00	0.00	0.44	0.56
		12/7/2015	94	<0.02	<0.2	<0.2	<0.2	<0.2	1.9	1.3	2.2	<1.0	2.07	-95.0	4.0	<1.0	<0.16	2700	M	8.1	30	0.00	0.00	0.00	0.20	0.80
		3/2/2016	180	<0.2	<0.2	2	0.4	<0.2	5.5	<1.0	<1.0	<1.0	0.43	-48.9	2.0	<1.0	<0.16	920	M	7	113	0.00	0.00	0.22	0.78	0.00
		6/17/2016	287	<0.2	<0.2	0.6	0.3	<0.2	4.6	1.5	<1.0	<1.0	0.47	-5.1	2.0	<1.0	<0.10	920	M	5.8	83	0.00	0.00	0.07	0.54	0.39
		9/8/2016	370	<0.2	<0.2	<0.2	<0.2	<0.2	1.1	1.6	3.6	<1.0	1.05	-33.1	2.8	<1.0	<0.10	9600	M	7	18	0.00	0.00	0.00	0.09	0.91
		11/29/2016	452	<0.2	<0.2	<0.2	<0.2	<0.2	0.7	1.6	4.6	--	0.83	-23.7	5.5	<1.0	--	13000	M	8.2	11	0.00	0.00	0.00	0.05	0.95

Table 2-1
Data Summary
Algona Bioremediation Pilot Test
Boeing Auburn Facility

Well	Aquifer Zone	Date	Elapsed Time from Injection (days)	Volatile Organic Compounds									Aquifer Redox Conditions							Donor Indicators	Total cVOC (nmol/L)	Molar Fraction				
				PCE (µg/L)	TCE (µg/L)	cDCE (µg/L)	tDCE (µg/L)	11DCE (µg/L)	VC (µg/L)	Ethene (µg/L)	Ethane (µg/L)	Acetylene (µg/L)	DO (mg/L)	ORP (mV)	Iron II (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Aquifer Redox State	TOC (mg/L)		PCE	TCE	Total DCE	VC	Ethene+ Ethane
AGW275	SZ	8/13/2015	-22	<0.020	<0.2	2.3	0.3	<0.2	7.7	<1.0	<1.0	<1.0	0.64	-47.6	3.0	1.0	<0.16	2000	M	7.6	150	0.00	0.00	0.18	0.82	0.00
		12/7/2015	94	<0.02	<0.2	2.5	0.3	<0.2	7.7	<1.0	<1.0	<1.0	1.02	-100.3	4.5	<1.0	<0.16	2100	M	6.9	152	0.00	0.00	0.19	0.81	0.00
		3/2/2016	180	<0.2	<0.2	0.6	<0.2	<0.2	7.7	2.2	1.6	<1.0	0.35	-48.5	2.2	<1.0	<0.16	14000	M	79.7	129	0.00	0.00	0.02	0.47	0.50
		6/17/2016	287	<0.2	<0.2	<0.2	<0.2	<0.2	0.16	2.8	4.5	<1.0	0.44	0.07	3.5	<1.0	<0.10	26000	M	7.9	3	0.00	0.00	0.00	0.01	0.99
		9/8/2016	370	<0.2	<0.2	<0.2	<0.2	<0.2	0.061	<1.0	5.8	<1.0	0.46	-45.3	2.0	<1.0	<0.10	16000	M	8.3	1	0.00	0.00	0.00	0.01	0.99
		11/29/2016	452	<0.2	<0.2	<0.2	0.2	<0.2	0.055	<1.0	6.5	--	0.60	-30.4	7.0	<1.0	--	16000	M	4.1	3	0.00	0.00	0.01	0.00	0.99
IW33	SZ	8/13/2015	-22	<0.020	<0.2	6.6	0.8	<0.2	3.0	<1.0	<1.0	<1.0	1.86	-17.1	2.6	<1.0	<0.16	940	M	7.4	124	0.00	0.00	0.61	0.39	0.00
		11/28/2016	451	--	--	--	--	--	--	--	--	--	9.27	38.3	--	--	--	--	--	205	--	--	--	--	--	--	--
IW34	SZ	8/17/2015	-18	<0.020	0.2	7.6	0.8	<0.2	4.9	<1.0	<1.0	<1.0	0.57	-60.2	4.0	<1.0	<0.16	1900	M	6.9	167	0.00	0.01	0.52	0.47	0.00
		12/7/2015	94	<0.10	1.6	8.5	1.2	<0.2	1.1	2.9	1.7	<1.0	1.79	-24.7	9.5	22.5	<0.16	7900	S/M	6010	130	0.00	0.04	0.35	0.06	0.55
		3/2/2016	180	<0.2	5.3	16	2.5	<0.2	1.1	3	2.7	<1.0	0.39	44.1	7.0	<10.0	<0.16	15000	M	6450	249	0.00	0.09	0.43	0.04	0.44
		6/16/2016	286	<0.2	5.4	16	2.2	<0.2	0.9	3.8	2.2	<1.0	1.07	116	3.0	1.9	0.16	23000	M	3840	243	0.00	0.09	0.42	0.03	0.46
		9/7/2016	369	<0.2	1.9	7.4	0.8	<0.2	0.34	1.5	<1.0	<1.0	0.46	-85.3	6.0	1.1	0.14	17000	M	377	104	0.00	0.09	0.54	0.03	0.34
		11/28/2016	451	<0.2	<0.2	6.1	<0.2	<0.2	0.31	<1.0	<1.0	--	0.50	-69.7	7.0	<1.0	--	24000	M	259	68	0.00	0.00	0.93	0.07	0.00
IW35	SZ	8/17/2015	-18	<0.020	<0.2	3.3	0.5	<0.2	3.7	<1.0	<1.0	<1.0	0.77	-22.8	2.0	1.0	<0.16	1800	M	7.2	98	0.00	0.00	0.40	0.60	0.00
		11/28/2016	451	--	--	--	--	--	--	--	--	--	0.76	0.7	--	--	--	--	--	16.3	--	--	--	--	--	--	--
IW36	SZ	8/17/2015	-18	<0.020	0.2	3.3	0.7	<0.2	6.0	<1.0	<1.0	<1.0	0.58	-29.5	2.8	<1.0	<0.16	1700	M	7.6	139	0.00	0.01	0.30	0.69	0.00
		12/7/2015	94	<0.02	<1.0	1.6	<1.0	<1.0	3.8	<1.0	1.4	<1.0	1.77	-100.2	6.0	<1.0	<0.16	17000	M	63.7	77	0.00	0.00	0.13	0.49	0.38
		3/2/2016	180	<0.2	<0.2	1.5	0.4	<0.2	5.7	<1.0	2	<1.0	0.32	-47.58	1.5	<1.0	<0.16	14000	M	17.9	111	0.00	0.00	0.11	0.51	0.38
		6/16/2016	286	<0.2	<0.2	1.5	0.4	<0.2	4.5	<1.0	1.9	<1.0	0.36	-7.85	1.0	<1.0	<0.10	11000	M	11.4	92	0.00	0.00	0.13	0.47	0.41
		9/7/2016	369	<0.2	<0.2	1.7	0.4	<0.2	4.3	<1.0	1.8	<1.0	0.35	-27.8	4.5	<1.0	<0.10	6600	M	11.2	90	0.00	0.00	0.14	0.46	0.40
		11/28/2016	451	<0.2	<0.2	1.7	0.4	<0.2	4.8	<1.0	1.2	--	0.87	-8.2	6.0	<1.0	--	2900	M	10.1	98	0.00	0.00	0.16	0.56	0.29
IW37	SZ	8/13/2015	-22	<0.020	<0.2	5.3	0.5	<0.2	4.9	<1.0	<1.0	<1.0	0.56	-45.0	2.0	<1.0	<0.16	1800	M	6.6	138	0.00	0.00	0.43	0.57	0.00
		12/7/2015	94	0.16	1.3	13	2.0	<0.2	1.5	5.8	3.1	<1.0	1.40	-24.2	9.0	6.6	<0.16	3800	M	4780	190	0.00	0.02	0.31	0.05	0.62
		3/2/2016	180	<0.2	0.8	7.7	1.0	<0.2	1.2	1.8	2.2	<1.0	0.47	35.1	5.0	<10.0	<0.16	23000	M	2480	115	0.00	0.02	0.36	0.08	0.54
		6/17/2016	287	<0.2	0.3	6	0.3	<0.2	0.4	<1.0	1.6	<1.0	0.91	-81.5	2.5	<1.0	<0.10	20000	M	1130	74	0.00	0.02	0.51	0.05	0.42
		9/7/2016	369	<0.2	<0.2	2.7	<0.2	<0.2	0.14	<1.0	<1.0	<1.0	0.91	-123.4	5.0	1.3	<0.10	17000	M	337	30	0.00	0.00	0.93	0.07	0.00
		11/28/2016	451	<0.2	<0.2	2.7	<0.2	<0.2	0.062	<1.0	<1.0	--	0.67	-106.8	7.0	<1.0	--	25000	M	356	29	0.00	0.00	0.97	0.03	0.00

Notes:

Blue shading indicates the compound with highest molar fraction per event
Total DCE is the sum of cDCE, tDCE, and 11DCE
Electron donor injection performed August 18 through September 4, 2015

Abbreviations/Acronyms:

-- = not applicable
11DCE =
CIS =
Conc = concentration
cVOC =
DO = dissolved oxygen
Fe = Iron-reducing
IZ = Intermediate Zone
N = nitrate-reducing
M = Methanogenic
µg/L = micrograms per liter
µmol/L = micromoles per liter
mg/L = micrograms per liter
mV = millivolt
ORP = oxygen-reduction potential
PCE = tetrachloroethene
S = Sulfate-reducing
SZ = Shallow Zone
TRANS =
TCE = trichloroethene
VC = vinyl chloride
WT = Water Table Zone