# 2014 Algona Groundwater Investigation Report Boeing Auburn Facility Auburn, Washington

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Prepared for

The Boeing Company Seattle, Washington

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#### LIST OF ABBREVIATIONS AND ACRONYMS

BGS Below Ground Surface
Boeing The Boeing Company
cis-1,2-DCE Cis-1,2-Dichloroethene

City of Algona

CMT Continuous Multi-channel Tubing

Ecology Washington State Department of Ecology EPA U.S. Environmental Protection Agency

ft Feet/Foot

LLI Eurofins Lancaster Laboratories, Inc.
Order Agreed Order No. DE 01HWTRNR-3345

PSE Puget Sound Energy RI Remedial Investigation

ROW Right-of-Way

SIM Selected Ion Monitoring

TCE Trichloroethene

VOC Volatile Organic Compound

VC Vinyl Chloride

WAC Washington Administrative Code

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#### 1.0 INTRODUCTION

The Boeing Company (Boeing) is currently undergoing corrective action at their Auburn Fabrication Division facility (facility) located at 700 15<sup>th</sup> Street Southwest in Auburn, Washington. Corrective action requirements are documented in an Agreed Order (Order; No. DE 01HWTRNR-3345) dated August 14, 2002 and the First Amended Agreed Order dated February 21, 2006, both with Washington State Department of Ecology (Ecology). The Order includes a requirement to conduct a remedial investigation (RI) of facility contamination impacts both within the facility (on Boeing property) and at downgradient properties (off Boeing property). This report documents the 2014 off Boeing property groundwater investigations in Algona, Washington; north and west of the facility. The Boeing property<sup>1</sup> location and vicinity map, including Algona, are shown on Figure 1.

#### 1.1 BACKGROUND

Between 2004 and 2008, Boeing completed a series of RI activities on Boeing property that were summarized in the 2<sup>nd</sup> Revised Ecology Review Draft Remedial Investigation Report (Landau Associates 2009a). This report was a comprehensive document that addressed all solid waste management units and areas of concern on Boeing property as required under the Order. Ecology's June 19, 2009 comments on the 2<sup>nd</sup> Revised RI Report identified an off Boeing property groundwater quality data gap. Between 2009 and 2014, Boeing completed a series of investigation activities as part of the RI to address this off Boeing property data gap. These activities, along with additional on Boeing property investigation activities, are described in a series of RI reports (Landau Associates 2009b, 2010, 2012ab, and 2014a).

Boeing has been implementing RI activities to characterize the nature and extent of two groundwater plumes: the Area 1 plume (Plume 1) and the western plume (Plume 2) that occur beneath the northern portion of the facility and extend off Boeing property to the north and northwest. These groundwater plumes are comprised of the volatile organic compounds (VOCs) trichloroethene (TCE) and its breakdown components: cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). The groundwater plumes are located in the uppermost aquifer which consists of saturated portions of modern alluvium. The uppermost aquifer has been subdivided into three groundwater zones based on depth beneath ground surface (BGS). The shallow zone is between 0 and 30 feet (ft) BGS, the intermediate zone is between 40 and 60 ft BGS, and the deep zone is between 80 and 100 ft BGS. The Osceola Mudflow serves as a regional aquitard between the uppermost aquifer and deeper aquifers.

<sup>&</sup>lt;sup>1</sup> The facility as defined in the First Amended Agreed Order consists of the Boeing Property and the Prologis property directly north of the Boeing property.

As part of the investigation activities identified in the *Fall 2012 Additional RI Work Plan* (Landau Associates 2012c), groundwater monitoring wells in the shallow and intermediate zones were installed in December 2012 in northern residential Algona. Data from the three shallow zone wells (AGW225, AGW226, and AGW228) and the intermediate zone well (AGW227) indicated that VOC impacts to groundwater in the shallow and intermediate zones extended into the northeastern portion of residential Algona. In response to VOC detections in the shallow zone in northern residential Algona, a groundwater investigation using direct-push drilling and associated shallow borehole groundwater sampling was completed in April 2013 in both northern and southern residential Algona (Landau Associates 2014b).

Results from the direct-push drilling led to two recommendations for additional work: 1) vapor intrusion assessment in northern residential Algona, and 2) additional permanent monitoring wells in Algona. The first recommendation for vapor intrusion assessment was addressed in the *Additional Algona Residential Neighborhood Vapor Intrusion Assessment Work Plan* (Landau Associates 2013a). The Algona residential vapor intrusion investigation has been completed and was presented in the draft *Algona Vapor Intrusion Technical Report* (Landau Associates 2014c).

The second recommendation for additional permanent monitoring wells in Algona led to the 2014 Algona groundwater investigation presented in this report. The investigation was conducted as part of the RI in accordance with the Ecology-approved *Additional Algona Groundwater Investigation Work Plan* (Work Plan; Landau Associates 2014d). Ecology approved the work plan on May 15, 2014 (Ecology 2014a).

#### 1.2 INVESTIGATION SCOPE AND OBJECTIVES

The scope, goals, and objectives of the 2014 Algona groundwater investigation are presented in the Work Plan (Landau Associates 2014d). The 2014 Algona groundwater investigation included installation of 12 new monitoring wells plus the advancement of 14 soil borings and associated groundwater borehole sampling to address these goals and objectives. The specific goals and objectives of the 2014 Algona groundwater investigation are:

- Goal #1: Provide locations for long-term monitoring of VOC concentrations at the water table in northern residential Algona.
  - Objective: Provide long-term monitoring of areas where direct-push data demonstrated TCE and/or VC concentrations above preliminary concern levels.
  - Objective: Provide additional data about VOC concentrations at the water table to guide long-term vapor intrusion monitoring.
- Goal #2: Delineate the westerly extent of the VOC groundwater plume in residential Algona and provide locations for long-term monitoring of the plume boundary in the shallow, intermediate, and deep groundwater zones.

- Objective: Complete the RI groundwater monitoring well network in the shallow, intermediate, and deep zones in northern residential Algona.
- Objective: Determine the nature and extent of VOC concentrations in Algona over time and provide a vertical groundwater VOC concentration profile.
- Goal #3: Provide long-term monitoring of VOC concentration in commercial and southern residential Algona and provide sufficient groundwater data to guide additional monitoring well installation in these areas, if needed.
  - Objective: Fill data gaps in commercial and southern residential Algona and collect additional information about horizontal groundwater flow direction and vertical groundwater gradients in these areas.
  - Objective: Provide information about VOC concentrations at the water table to inform future commercial vapor intrusion studies.

Ten wells (AGW240 through AGW249) were installed in northern residential Algona to address Goals #1 and #2. Two additional wells (AGW250 and AGW251) were installed to address Goal #3. Fourteen direct-push borings (ASB0230 through ASB0243) were advanced and associated groundwater quality samples were collected to address Goal #3.

Well installation and groundwater sampling field investigations are presented in Section 2.0. Updates to the geology and hydrogeology conceptual models are presented in Section 3.0. Groundwater quality results for the initial samples from the wells and direct-push boring sampling are presented in Section 4.0.

#### 2.0 FIELD INVESTIGATION ACTIVITIES

The scope of the 2014 Algona groundwater field investigation activities is presented in the Work Plan (Landau Associates 2014d). Field activities included the installation and sampling of nine continuous multichannel tubing (CMT) multi-level wells and three conventional water table wells plus the advancement of 14 direct-push borings and associated borehole groundwater sampling in June and July 2014. Wells were installed at 12 locations on City of Algona (City) right-of-way (ROW). Direct-push borings were advanced at five locations on City ROW and nine locations on Puget Sound Energy (PSE) property (Interurban Trail). A ROW permit was obtained from the City on May 22, 2014. A limited use access agreement was obtained from PSE on July 2, 2014.

#### 2.1 MONITORING WELLS

All conventional monitoring wells were installed in accordance with the Minimum Standards for Construction and Maintenance of Wells [Washington Administrative Code (WAC) 173-160]. The multilevel monitoring wells were installed in accordance with the Minimum Standards for Construction and Maintenance of Wells (WAC 173-160) and the well variance (Ecology 2014b) granted by Ecology that provides exception to specific sections of WAC 173-160. All wells were installed using a rotosonic (sonic) drilling rig operated by Cascade Drilling, Inc. of Woodinville, Washington. Well locations and elevations were surveyed by Duane Hartman & Associates in July 2014. Survey information for the 2014 Algona groundwater investigation wells AGW240 through AGW251 are presented in Table 1. New well locations are presented on Figure 2.

#### 2.1.1 WELL INSTALLATION

Well drilling and installation took place between June 9 and June 27, 2014. Conventional water table wells (AGW244, AGW245, and AGW246) have 5-ft long well screens placed to intersect the water table year-round. Multi-level screens are approximately ½ ft long, except for the water table screen which is approximately 2½ ft long. Three of the multi-level wells (AGW242², AGW250, and AGW251) have all seven channels screened at different intervals in the shallow, intermediate, and deep zones. The other four multi-level wells (AGW240, AGW243, AGW248, and AGW249) have six channels screened at three individual depths with two channels at each depth, allowing for water level data collection from one channel and dedicated sampling tubing to remain in the paired channel. The seventh channel was not utilized; therefore, the seventh channel was grouted before installation. AGW240, AGW248, and

<sup>2</sup> The seventh (deep zone) channel at AGW242 was incorrectly installed and therefore, not operational. Consequently, well AGW242 does not have a channel in the deep zone.

LANDAU ASSOCIATES

AGW249 have all three screens set in the shallow zone (water table, 10 ft below the water table, and 20 ft below the water table). AGW243 has screens set in the shallow and intermediate zone (water table, 25 ft BGS, and 50 ft BGS). Monitoring well screen and depths are presented in Table 1. Monitoring well logs are presented in Appendix A.

#### 2.1.2 GROUNDWATER SAMPLING

Initial groundwater samples<sup>3</sup> were collected from all new monitoring wells (and all multi-level screens) at least 5 days after well development of each well. Groundwater sampling was conducted using a peristaltic pump and dedicated tubing. Permanent wells were sampled utilizing low-flow procedures. During purging, groundwater was monitored for field parameters (pH, conductivity, dissolved oxygen, temperature, oxidation reduction potential, and turbidity).

All water samples were analyzed for VOCs using U.S. Environmental Protection Agency (EPA) Methods 8260c and 8260c selected ion monitoring (SIM) by Eurofins Lancaster Laboratories, Inc. (LLI) of Lancaster, Pennsylvania. SIM analysis was performed for VC in order to achieve reporting limits below site screening levels, and for tetrachloroethene at Ecology's request. All samples were analyzed on the standard 2-week turnaround time. Following the initial sampling, each well was incorporated into the site groundwater monitoring plan (draft *Phase VI Interim Groundwater Monitoring Program*; Landau Associates 2014e). Groundwater sampling results are discussed in Section 4.0.

#### 2.2 DIRECT-PUSH BORINGS

The direct-push field investigation took place between June 23 and June 26, 2014 on City ROW and between July 7 and July 15, 2014 on PSE property. The 14 direct-push borings (ASB0230 through ASB0243) were advanced using a direct-push probe drill rig operated by Cascade Drilling, Inc.. Groundwater samples were collected from all borings at the water table (approximately 5 ft BGS), 15 ft BGS, and 25 ft BGS. When groundwater was encountered below 10 ft BGS, the next sample was collected at 25 ft BGS. At a number of locations, intermediate zone groundwater samples were also collected at approximately 50 ft BGS. Direct-push borehole sampling depths are presented in Table 2. Direct-push drilling locations were surveyed using a GPS. New direct-push boring locations are presented on Figure 2. Boring logs are presented in Appendix B.

Groundwater samples were collected using a 4-ft-long decontaminated, stainless steel screen covered with a protective sheath which was driven to each respective sample depth. Upon reaching the sample depth, the sheath was retracted to expose the screen to the surrounding formation and groundwater

<sup>&</sup>lt;sup>3</sup> Initial groundwater samples are defined as samples collected after well installation but before the following scheduled quarterly groundwater sampling event.

was purged and sampled. Purging and sampling were performed using a peristaltic pump and dedicated tubing. Depth to water was measured from the ground surface at each boring prior to purging and sample collection (Table 2). The temporary screens were purged until water was clear or for a maximum of 30 minutes which ever was sooner. During purging, groundwater was monitored for the following field parameters: pH, conductivity, dissolved oxygen, temperature, oxidation reduction potential and turbidity. Upon completion of purging, groundwater samples were collected using low-flow sampling techniques. After sampling was completed, the borehole was decommissioned by backfilling with bentonite clay and a cement surface seal in general accordance with the requirements of WAC 173-160.

All samples were stored in coolers on ice and shipped using proper chain-of-custody procedures to LLI. VOC samples were analyzed by EPA Method 8260c and 8260c SIM. SIM analysis was performed for VC for the lowest achievable reporting limits. All samples were analyzed on the standard 2-week turnaround time.

#### 2.3 GROUNDWATER LEVEL MONITORING

Synoptic groundwater level monitoring is completed approximately twice a year. The most recent synoptic groundwater level monitoring, including all newly installed wells, was completed on July 7 and 8, 2014. Groundwater level data is discussed in Section 3.0.

#### 3.0 GEOLOGY AND HYDROGEOLOGY

Additional geologic and groundwater level data were collected as part of the 2014 Algona drilling program. These data reflect minor refinements to the geologic and hydrogeologic conceptual models. Additional geologic data consists of soil texture information documented on boring logs. Additional groundwater level data is summarized as groundwater elevation contours and vertical hydraulic gradients.

#### 3.1 GEOLOGY

Geologic conditions encountered during the 2014 Algona drilling were generally consistent with the existing conceptual model. Modern alluvium is overlain by 0 to 6 ft of fill and underlain by the Osceola Mudflow. The alluvium generally consists of dark gray, fine to medium sand with varying amounts of silt and occasional gravel and silt layers. Peat was encountered from approximately 1 to 6 ft BGS at 7 of the 12 monitoring well borings and in 2 of the 14 direct-push borings. The Osceola Mudflow aquitard deposit was identified at all three well borings that extended into the deep zone. The Osceola Mudflow is capped by a layer of gray silt and clay that is about 1 to 5 ft thick. This silt layer was encountered from 84.5 to 85 ft at AGW242, at 90 to 93.5 ft at AGW250, and 89 to 93 ft at AGW251. The Osceola Mudflow deposit (gray well-graded, silty sand with sub-angular gravel and clay) was encountered directly below the silt layer at all three of these borings.

#### 3.2 GROUNDWATER ELEVATIONS

Groundwater elevation data was collected in July 2014 from all wells in the groundwater monitoring program (including those installed as part of the 2014 Algona groundwater investigation). Groundwater elevation data was consistent with the previous interpretations of horizontal groundwater gradients. Groundwater flow in the Auburn Valley is generally northward, parallel to the valley sidewalls (Pacific Groundwater Group 1999). However, in the vicinity of the Boeing facility, there is a northwestern component to groundwater flow. The northwestern component of flow is most pronounced in the shallow zone, which is in direct hydraulic connection with surface water features in the western portion of the valley. Groundwater elevation data is presented on Table 3. Groundwater elevation contours are presented on Figure 3 through 5.

#### 3.3 VERTICAL GRADIENTS

Vertical groundwater gradients were calculated from water levels collected in July 2014 from the newly installed multi-level CMT wells. The gradient calculation represents the difference in water level

divided by the difference in elevation between the midpoints of the corresponding screens<sup>4</sup>. Gradients were calculated for two different scenarios: 1) water table screens to deeper shallow zone screens and 2) shallow zone screens to intermediate zone screens. Nine wells were used to determine vertical gradients using scenario 1 and four wells were used to determine vertical gradients using scenario 2.

When comparing the water table screens to deeper shallow zone screens (scenario 1), the vertical gradients were neutral or slightly upward. The maximum upward gradient (-0.053) was at AGW249. This generally upward hydraulic gradient within the shallow zone is consistent with the hydrogeologic conceptual model that groundwater discharges to surface water bodies in the western portion of the valley. The vertical gradients for scenario 1 are provided on Table 4.

When comparing shallow to intermediate zone screens (scenario 2), the vertical gradient was slightly downward in the commercial and southern residential areas of Algona and slightly upward in northern residential Algona. The maximum upward gradient (-0.030) was at AGW243 (in the northwest corner of Algona directly south of the Auburn 400 South Flood Storage Pond) and the maximum downward gradient (0.008) was at AGW250 (in the Junction neighborhood of Algona). The spatial trend in gradients is consistent with the shallow to intermediate vertical gradients calculated from January 2014 water level data (Landau Associates 2014a). Shallow to intermediate vertical gradients are generally downward on or near Boeing property. As groundwater flows northwest, gradients transition from downward to upward. The largest upward gradient observed at well AGW243 near the Auburn 400 South Flood Storage Pond is consistent with the conceptual model that groundwater is discharging to surface water features. The vertical gradients for scenario 2 are provided on Table 5.

<sup>&</sup>lt;sup>4</sup> By convention, negative gradients are upward; positive gradients are downward. Gradients are dimensionless because they are foot per foot and are shown without units.

#### 4.0 GROUNDWATER QUALITY

Groundwater quality data from new wells and ongoing groundwater monitoring help refine the nature and extent of VOC groundwater contamination downgradient of the Boeing property in Algona. Goals of the 2014 Algona groundwater investigation include: 1) providing long-term VOC monitoring locations at the water table in northern residential Algona; 2) delineating the western extent of VOC plumes in northern residential Algona and providing long-term monitoring locations at the plume boundaries in the shallow, intermediate, and deep zones; and 3) providing long-term VOC monitoring locations in the commercial and southern residential Algona and determining if additional monitoring well installation in these areas is needed. Achievement of these goals is discussed below. Groundwater analytical results for sampling of the newly installed monitoring wells are presented in Table 6<sup>5</sup>; results for the direct-push boring samples are presented in Table 7.

# 4.1 EXTENT OF VOLATILE ORGANIC COMPOUNDS AT THE WATER TABLE IN NORTHERN RESIDENTIAL ALGONA

Three conventional water table monitoring wells and seven CMT monitoring wells with channels at the water table were installed to provide long-term monitoring of VOC concentrations at the water table and guide long-term vapor intrusion monitoring in northern residential Algona. The constituents of concern for vapor intrusion are TCE and VC. Water table water quality results for TCE and VC are presented on Figure 6.

Four wells (AGW240, AGW247, AGW248, and AGW249) were installed at locations where TCE or VC concentrations were above the residential vapor intrusion preliminary concern levels in direct-push borehole water table samples collected in April 2013. All four wells are CMT wells with channel 1 screened across the water table. The TCE concentrations at the water table at AGW240-1 and AGW247-1 were both non-detect, which were the same results as the corresponding direct-push borehole samples (ASB0190 and ASB0185) at these locations. VC concentrations decreased at AGW240-1 and AGW247-1 when compared to the corresponding direct-push borehole samples (ASB0190 and ASB0185) at these locations. Both the TCE and VC concentrations at AGW249-1 decreased when compared to the corresponding direct-push borehole sample ASB0182. The TCE concentration at AGW248-1 decreased compared to the corresponding direct-push borehole sample at ASB0181; however, VC concentrations increased compared to the VC concentration at ASB0181.

<sup>&</sup>lt;sup>5</sup> Of the 12 wells that were installed, initial samples from 7 wells had detections of chloroform. Chloroform may be an indicator of drilling water that is still present in the vicinity of the well and may have diluted the sample result. The protocol for chloroform being present in initial samples is to resample after 1 month. These wells will be resampled during the quarterly groundwater sampling event in September 2014.

Six wells (AGW241, AGW242, AGW243, AGW244, AGW245, and AGW246) were installed outside the area where VOCs were detected at the water table in direct-push boring samples. AGW241, AGW242, and AGW243 are CMT wells with channel 1 screened across the water table. AGW244, AGW245, and AGW246 are conventional water table wells screened across the water table. These six wells represent long-term VOC monitoring locations at the water table to help evaluate the vapor intrusion pathway. The water table sample from AGW241-1 did not have detections of any constituents of concern, similar to sample results from the corresponding adjacent direct-push borehole ASB0210. The water table samples from AGW242-1, AGW243-1, AGW244, and AGW246 did not have detections of TCE, but did have low-level detections of VC. The water table sample at AGW245 had low-level detections of TCE and VC at higher concentrations then sample results from the adjacent direct-push borehole ASB0186.

All 10 water table wells will continue to be monitored to evaluate water table VOC concentration trends. The evaluation of these data for vapor intrusion will be completed in a separate report as described in the draft *Vapor Intrusion Evaluation and Assessment Approach Report* (Landau Associates 2013b).

# 4.2 EXTENT OF VOLATILE ORGANIC COMPOUNDS IN NORTHERN RESIDENTIAL ALGONA

The second goal of the Algona groundwater investigation was to delineate the western extent of the VOC groundwater plumes and to provide long-term monitoring locations near the plume boundary in the shallow, intermediate, and deep zones in northern residential Algona. A summary of the new well data is presented in Figure 7. The most recent (i.e., June and July 2014) TCE, cis-1,2-DCE, and VC data from the current monitoring well network are presented for the shallow, intermediate, and deep aquifer zones on Figures 8 through 16.

#### 4.2.1 SHALLOW ZONE

Three wells (AGW241, AGW242, and AGW243) were installed to define the western extent of the VOC plumes in the shallow zone in northern residential Algona. Wells AGW241 and AGW242 both have two channels screened in the shallow zone beneath the water table. Well AGW243 has one interval (channel 3) screened in the shallow zone. The VOC plumes in the shallow zone are presented on Figures 8 through 10.

TCE was non-detect at both AGW241 shallow zone channels. The shallow zone samples from AGW241 have low-level detections of cis-1,2-DCE and VC. However, previous direct-push borehole samples to the south and west (ASB0198-25, ASB0206-25, ASB0211-25, and ASB0218-25) are non-

detect for all constituents of concern. The shallow zone samples collected at wells further to the north (AGW242 and AGW243) also do not have detections of any constituents of concern. The combination of shallow well (AGW241, AGW242, and AGW243) and previous borehole sample results provide adequate definition of the northwestern plume boundary in Algona.

The three wells installed to the monitor shallow zone plume boundary (AGW241, AGW242, and AGW243) will provide long-term locations to continue to monitor the shallow zone plume boundary in northern residential Algona.

#### 4.2.2 Intermediate Zone

Two wells (AGW242 and AGW243) were installed to define the western extent of the VOC plumes in the intermediate zone in northern residential Algona. AGW242 has three separate intervals (channels 4, 5, and 6) screened in the intermediate zone at 40 ft, 50 ft, and 60 ft BGS, respectively. AGW243 has one interval (channel 5) screened in the intermediate zone at 50 ft BGS. The intermediate zone VOC plumes are presented on Figures 11 through 13.

The intermediate zone samples from both of these wells have no detections of any constituents of concern; therefore, the intermediate zone TCE, cis-1,2-DCE, and VC plumes are bound by AGW242 and AGW243. The western extent of the intermediate zone plume is also bound east of AGW242 and southeast of AGW243 in northern residential Algona by the previously installed intermediate zone well AGW191.

Newly installed wells AGW242 and AGW243 and the previously installed well AGW191 will provide long-term locations to continue to monitor the intermediate zone plume boundary in northern residential Algona.

#### **4.2.3 DEEP ZONE**

One well (AGW242) was intended to be installed in the deep zone in northern residential Algona. However, there was a malfunction in the CMT channel that was installed in the deep zone at this location. Even without a deep zone channel at AGW242, the deep zone plumes are bounded on the eastern edge of northern residential Algona by previously installed wells AGW183 and AGW192. In addition, a CMT well (AGW251) with channels in the deep zone was installed in commercial Algona along Milwaukee Avenue. This well also bounds the deep zone plume east of northern residential Algona and is further described in section 4.3.1. The deep zone VOC plumes are presented on Figures 14 through 16.

The western edge of the deep zone plume is well defined by the line of boundary wells east of northern residential Algona. Since the deep zone plume boundary is well defined, a replacement well for

the malfunctioning channel at AGW242 is not essential to monitor the deep zone plumes in northern residential Algona.

# 4.3 EXTENT OF VOLATILE ORGANIC COMPOUNDS IN COMMERCIAL AND SOUTHERN RESIDENTIAL ALGONA

Two wells were installed to provide long-term monitoring of the VOC plumes in commercial Algona (AGW251) and southern residential Algona (AGW250). In addition to the two wells, fourteen direct-push borings were advanced in the same areas. At each boring, groundwater borehole samples were collected at multiple depths for VOC analysis. The purpose of the borings was to fill data gaps and guide additional monitoring well installation, if needed. Five of the direct-push borings were located along Milwaukee Avenue, in the western area of commercial Algona and nine of the direct-push borings were located along the Interurban Trail, on the eastern edge of commercial Algona. The two direct-push borings furthest to the south on the Interurban Trail (ASB0235 and ASB0241) were completed to provide additional information about southern residential Algona. Groundwater analytical results from the direct-push borings and groundwater monitoring wells in the commercial and southern residential areas of Algona are presented on Figure 17.

#### 4.3.1 COMMERCIAL ALGONA

One of the objectives of the work in the commercial Algona was to provide information about VOC concentrations at the water table to inform future commercial vapor intrusion studies. There were no detections of TCE or VC (constituents of concern for vapor intrusion) at the water table along the Interurban Trail. The samples collected from the water table at the direct-push borings along the northern portion of Milwaukee Avenue (ASB0232, ASB0233, and ASB0234) also did not have any detections of TCE or VC. Low concentrations of TCE and VC were detected at the water table along the southern portion of Milwaukee Avenue at ASB0230 and ASB0231. The water table sample at AGW251 had a low-level detection of VC. The evaluation of this data for vapor intrusion will be completed in a separate report as described in the draft *Vapor Intrusion Evaluation and Assessment Approach Report* (Landau Associates 2013b).

An additional objective of well AGW251 and the direct-push borings ASB0237 through ASB0243 was to fill data gaps and monitor the VOC plume boundaries in commercial Algona. The shallow groundwater plume is bound to the south in commercial Algona by the shallow direct-push borehole samples collected at ASB0237 and ASB0241; both of which did not have detections of TCE, cis-1,2-DCE, or VC. All of the other direct-push borehole samples north of ASB0237 along the Interurban Trail and along Milwaukee Avenue have detections of TCE, cis-1,2-DCE, or VC at 25 ft BGS.

Well AGW251 is a multi-level CMT well located on Milwaukee Avenue between ASB0231 and ASB0232. TCE has not been detected at the shallow zone channel (channel 2) from this well; in contrast to the borehole samples collected at 25 ft BGS to the south (ASB0231) and the north (ASB0232). However, cis-1,2-DCE and VC have been detected at this well. Well AGW251 and the direct-push borehole samples address data gaps in the shallow zone in commercial Algona. However, an additional well in the shallow zone south of well AGW251 may be necessary to monitor the highest VOC concentration detected along Milwaukee Avenue in this area.

The intermediate zone TCE plume is bound to the west in commercial Algona by intermediate zone samples collected from well AGW251 (channels 3, 4, and 5) and direct-push borehole samples from borings ASB0230 and ASB0241. However, the cis-1,2-DCE and VC plumes extend west of the TCE plume and are not bound by these monitoring locations. An additional intermediate zone well may be necessary west of AGW251 in order to monitor the VC plume in this area. The other direct-push borehole samples collected from the intermediate zone in commercial Algona (ASB0233, ASB0234, ASB0242, and ASB0243) fill data gaps and provide data to more precisely delineate the VOC plumes.

The deep zone TCE plume is bound to the west in commercial Algona by the deep zone samples collected at AGW251. The deep zone samples did have low-level detections of cis-1,2-DCE and VC. However, these plumes are bound further to the northwest by the previously installed deep zone wells AGW182 and AGW192 (located just west of the Chicago Avenue ditch). No additional wells are recommended in the deep zone in this area.

#### 4.3.2 SOUTHERN RESIDENTIAL ALGONA

Two direct-push borings were advanced in southern residential Algona (ASB0235 and ASB0236). Both borings were advanced into the intermediate zone with samples collected at the water table, 15 ft, 25 ft, and 50 ft BGS. A permanent monitoring well (AGW250) was also installed in southern residential Algona with channels at the water table, deeper in the shallow zone, and in the intermediate and deep zones.

Samples collected from the water table at AGW250-1 and the two direct-push borehole samples at the water table (ASB0235 and ASB0236) in southern residential Algona did not have detections of any constituents of concern. The samples collected deeper in the shallow zone (26 ft BGS) and in the intermediate zone (41 and 51 ft BGS), had low-level detections of TCE, cis-1,2-DCE, and VC. The sample collected at 25 ft BGS at ASB0236 had low-level detections of TCE, cis-1,2-DCE, and VC consistent with the shallow zone sample collected at AGW250-2. ASB0235 did not have detections of any constituents of concern in the shallow zone.

The samples collected from AGW250 in the intermediate zone (channels 3, 4, and 5) also had low-level detections of TCE, cis-1,2-DCE, and VC. Samples collected from the intermediate zone at ASB0235 and ASB0236 both had low-level detections of VC and the sample at ASB0236 also had a low-level detection of cis-1,2-DCE. The samples collected from the deepest channel in the intermediate zone at AGW250-5 (61 ft BGS) and in the deep zone AGW250-6 (81 ft BGS) and AGW250-7 (91 ft BGS) did not have detections of any constituents of concern.

Samples collected in southern residential Algona had low-level detections of constituents of concern below 25 ft in the shallow zone and in the intermediate zone. These levels will continue to be monitored at the monitoring well AGW250, but constituents of concern are not detected at the water table, so there is a very low potential for these concentrations to provide a risk to human health. Additional wells are not recommended in southern residential Algona, because detected concentrations are very low and well AGW250 provides a representative location to monitor concentrations of constituents of concern in groundwater.

# 4.4 VERTICAL DISTRIBUTION OF VOLATILE ORGANIC COMPOUNDS IN THE SHALLOW ZONE

An additional objective of the multi-level wells screened at separate intervals in the shallow zone and the samples collected at different shallow zone intervals during the direct-push borings was to provide information about the vertical distribution of VOCs in the shallow zone. Two or three screens at each of the seven CMT wells in northern residential Algona are located in the shallow zone (within about 30 ft BGS). Data from the water table well screen was compared with data from the deeper one or two screens within the shallow zone at each of the seven multi-level wells. During the direct-push probe investigation, groundwater samples were collected from 14 locations at the water table (within about 8 ft BGS). At all 14 locations, groundwater samples were also collected at deeper intervals within the shallow zone, typically at 15 ft BGS and 25 ft BGS. The direct-push investigation provided data to assess the vertical distribution of VOCs within the shallow zone at the 14 locations where shallow groundwater samples were collected at multiple shallow zone depths. These multi-level well and direct-push borehole sample data are presented in Table 8.

The multi-level well and direct-push borehole sample data are presented below:

- TCE concentrations were non-detect at all intervals sampled in the shallow zone at 10 of the 18 locations (56 percent of the samples). At the other eight locations, the TCE concentrations were lower at the water table than at the deeper samples (44 percent of the samples).
- Cis-1,2-DCE concentrations were non-detect at all intervals sampled in the shallow zone at 6 of the 18 locations (33 percent of the samples). At the other 12 locations, the cis-1,2-DCE concentrations were lower at the water table than at the deeper samples (67 percent of the samples).

• VC concentrations were non-detect at all intervals sampled in the shallow zone at 4 of the 18 locations (22 percent of the samples). At 9 of the 18 locations, the VC concentrations were lower at the water table than in the deeper samples (50 percent of the samples). At 5 of the 18 locations, the VC concentrations were higher at the water table than at the deeper samples (28 percent of the samples).

These data are generally consistent with previous comparisons of vertical distribution of VOCs in the shallow zone (Landau Associates 2014a). VOC concentrations tend to be lower at the water table in comparison to deeper portions of the shallow zone. TCE was never detected at a higher concentration near the water table. VC (a breakdown product of TCE) concentrations were more variable, but more frequently had lower concentrations near the water table surface. Variability in breakdown products at the water table may be the result of a tendency for organic material (that facilitates reductive dechlorination of chlorinated ethenes to breakdown products) to occur more frequently in the upper portion of the shallow aquifer.

#### 5.0 SUMMARY

The 2014 Algona groundwater investigation focused on characterizing the nature and extent of groundwater contamination in Algona through installation of additional monitoring wells and collection of borehole groundwater samples from direct-push borings. Data collected as part of the 2014 Algona groundwater investigation have helped refine the understanding of groundwater flow and the nature and extent of contamination. A summary of observations and conclusions include:

- Newly installed water table wells and CMT well water table screens provide adequate spatial coverage in northern residential Algona for long-term monitoring of VOC concentrations at the water table.
- The western extent of the VOC groundwater plumes in northern residential Algona has been delineated based on the following information:
  - The western extent of the shallow zone TCE plume is bound from south to north by wells AGW241, AGW240, AGW247, AGW242, and AGW243. The western extent of the shallow zone cis-1,2-DCE and VC plumes are bound by wells AGW242 and AGW243.
  - The western extent of the intermediate zone VOC plumes are bound by newly installed wells AGW242 and AGW243 and by the previously installed well AGW191.
  - The western extent of the deep zone TCE plume is bound in commercial Algona by well AGW251. The western extent of the deep zone VOC plumes are bound in residential Algona by well AGW192 and just to the north of residential Algona by well AGW183.
- Well AGW250 provides a sufficient location for long-term monitoring of the plume in all zones in the vicinity of southern residential Algona. TCE, cis-1,2-DCE, and VC were detected at low concentrations in the deeper shallow zone and intermediate zone at this location.
- VOC concentrations are generally lower at the water table than at deeper locations in the shallow zone.
- Well AGW251 and direct-push borings advanced in commercial Algona help define the nature and extent of the VOC plumes in this area. However, remaining data gaps in commercial Algona are described below:
  - VOCs were detected in the water table, shallow and intermediate zone samples at ASB0230, the southern most boring on Milwaukee Avenue. A shallow zone well should be added along the southern portion of Milwaukee Ave in the vicinity of ASB0230 to monitor elevated VOC concentrations over time.
  - Intermediate zone samples from AGW251 had detections of VC. An intermediate zone
    well should be installed west of AGW251 in order to monitor the western extent of VC in
    this area.

Results from the newly installed wells in Algona and additional monitoring well locations were discussed with Ecology and representatives from the City of Algona on September 16, 2014 (Ecology 2014c). After the meeting, Ecology provided Boeing with a figure showing additional well locations requested by the City of Algona (Ecology 2014d). The wells requested by the City of Algona include a replacement deep zone well at AGW242, a deep zone well south of AGW242 on 7<sup>th</sup> Avenue, and a deep

zone well on 9<sup>th</sup> Avenue near Chicago Avenue. Ecology also identified a data gap in commercial Algona between Milwaukee Avenue and the Interurban trail in the shallow, intermediate, and deep zones (Ecology 2014e). Additional well locations in Algona will be addressed in a work plan for additional drilling to be completed in 2015.

6.0 USE OF THIS REPORT

This report has been prepared for the exclusive use of The Boeing Company for specific

application to the Auburn Fabrication Division Remedial Investigation. No other party is entitled to rely

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This document has been prepared under the supervision and direction of the following

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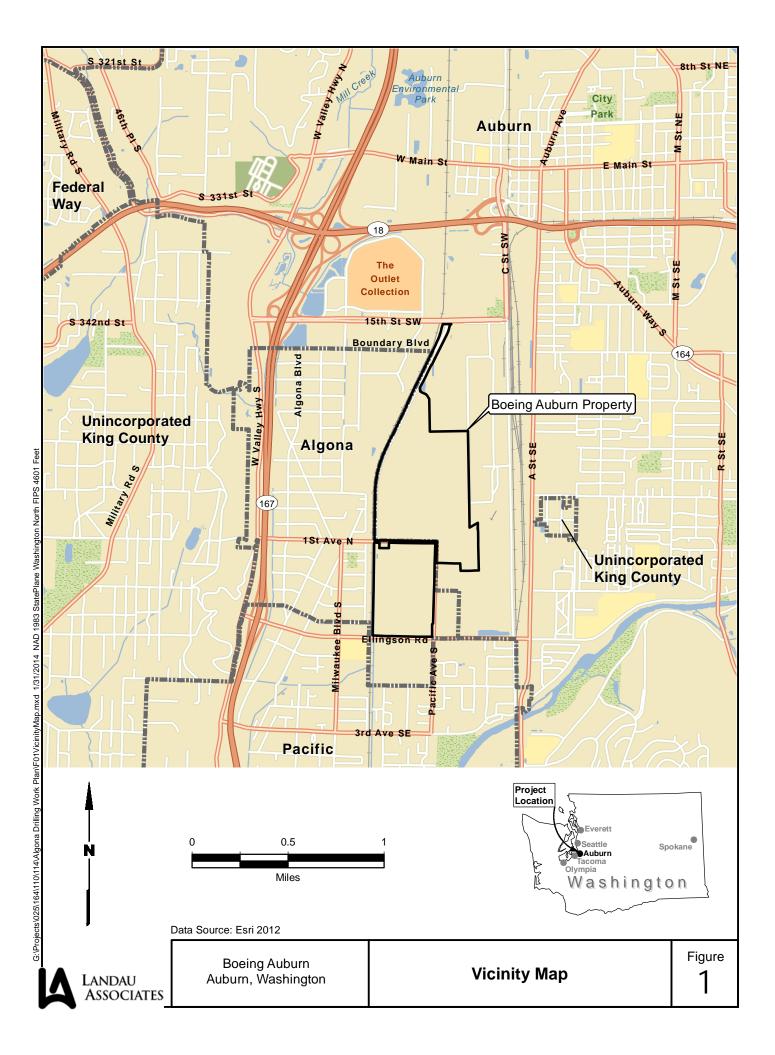
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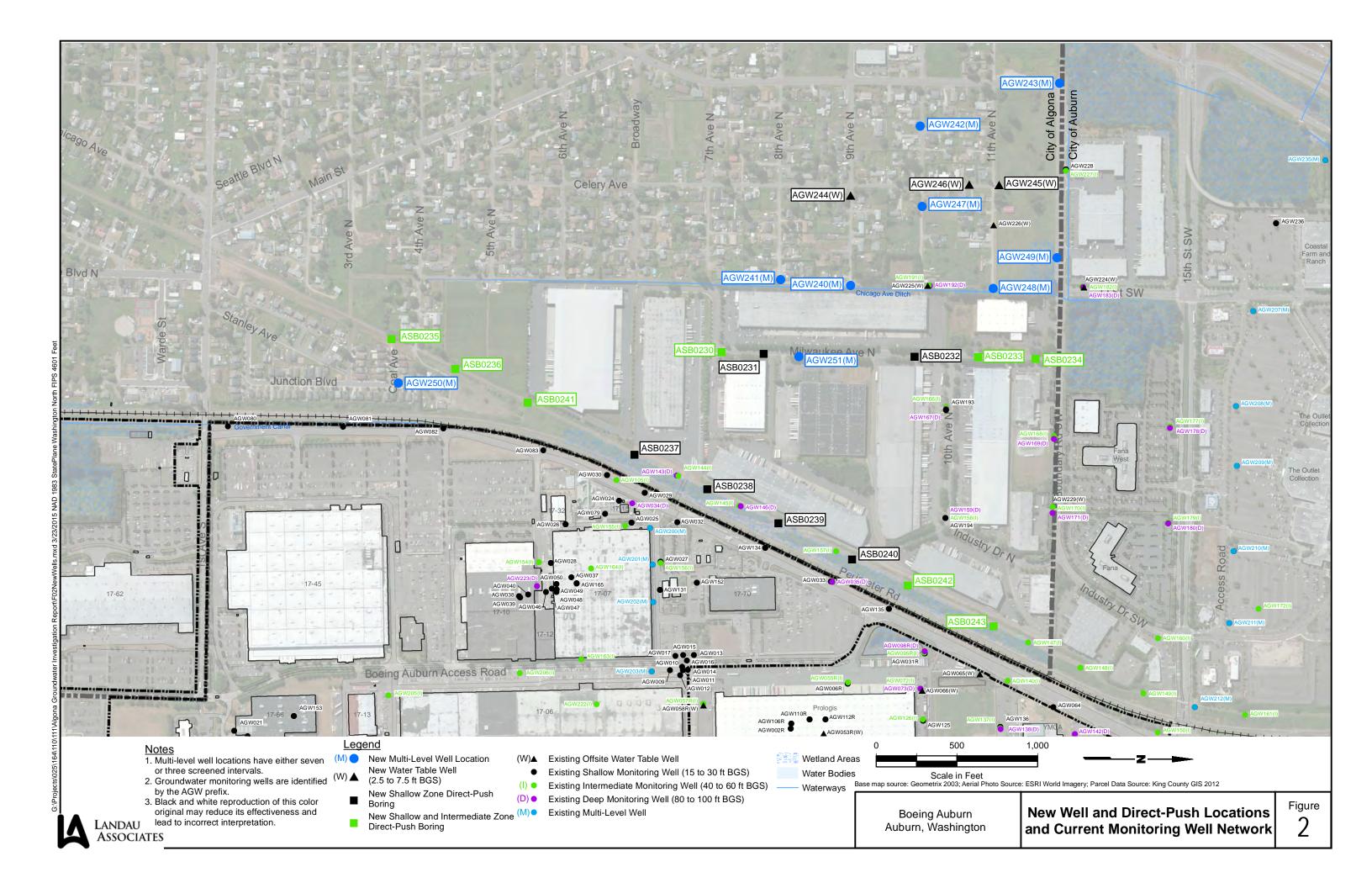
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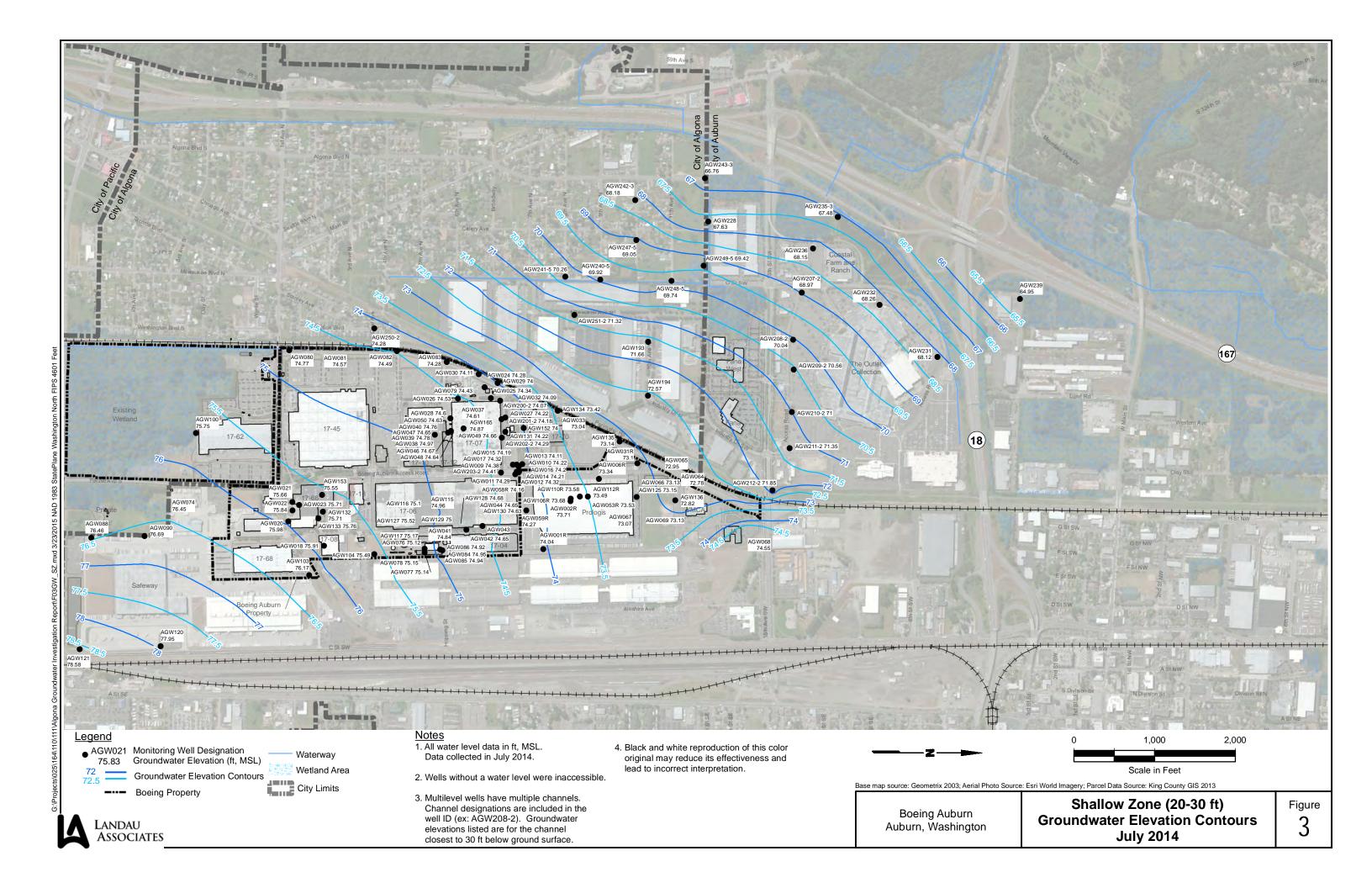
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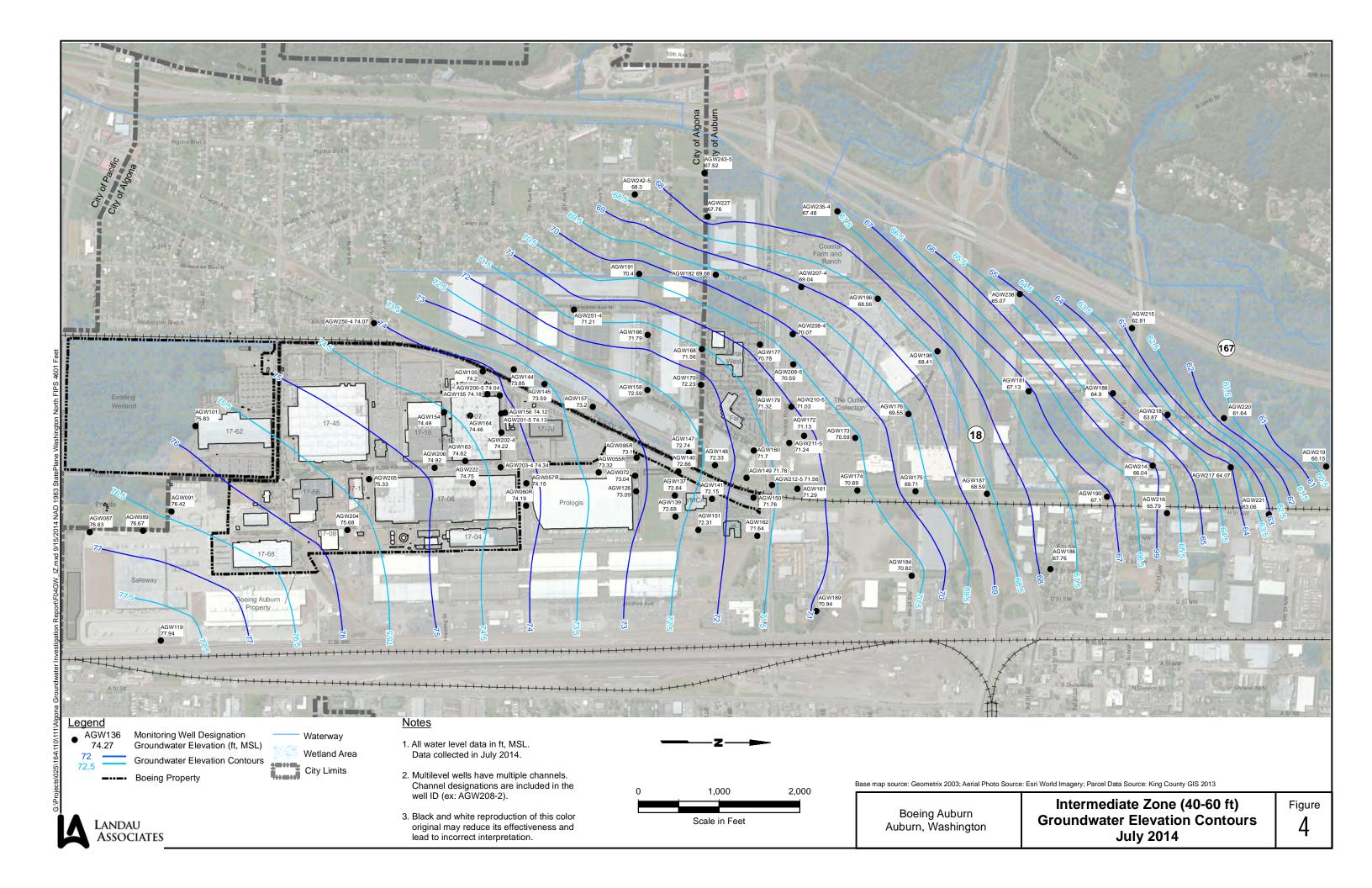
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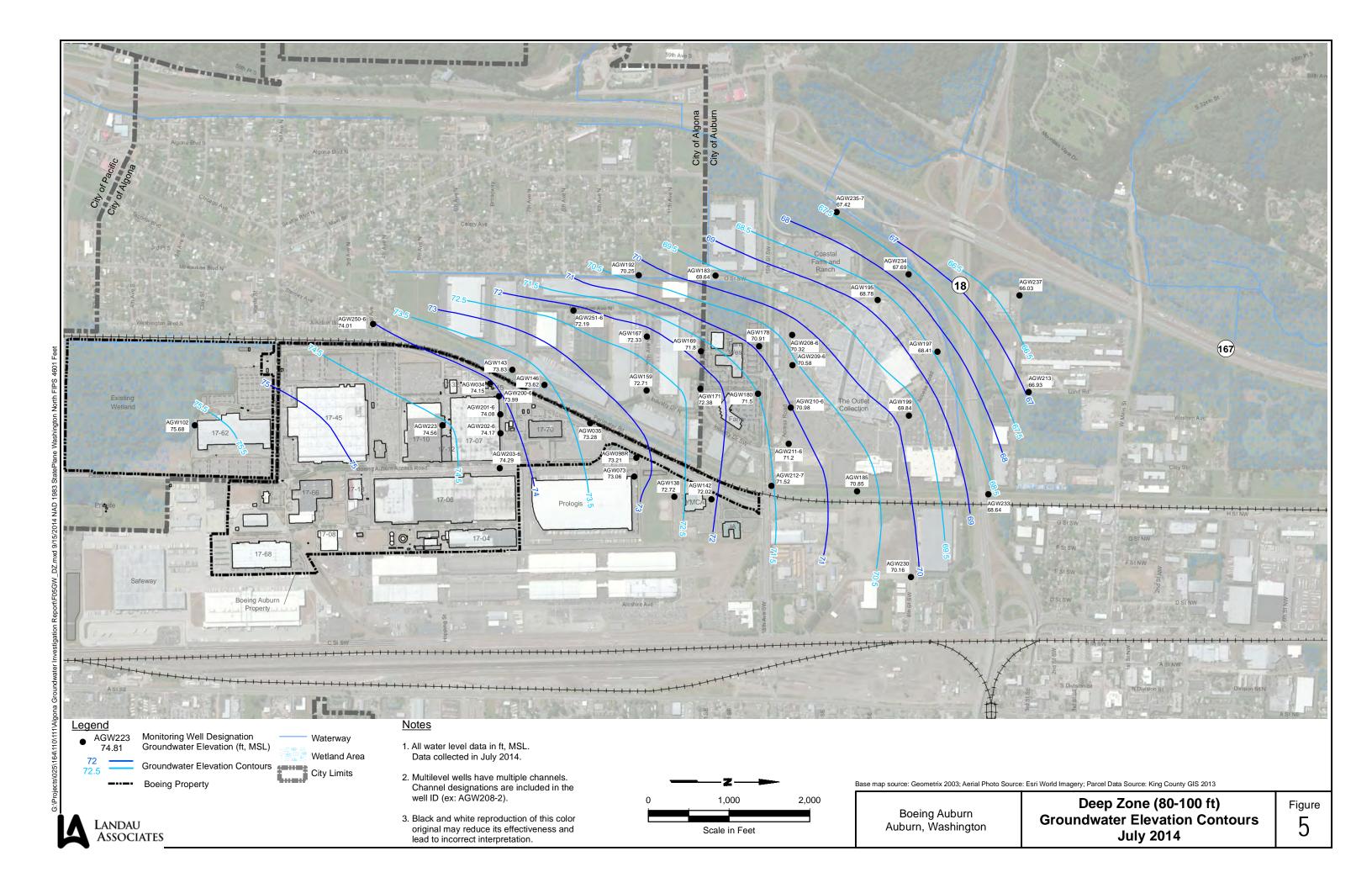
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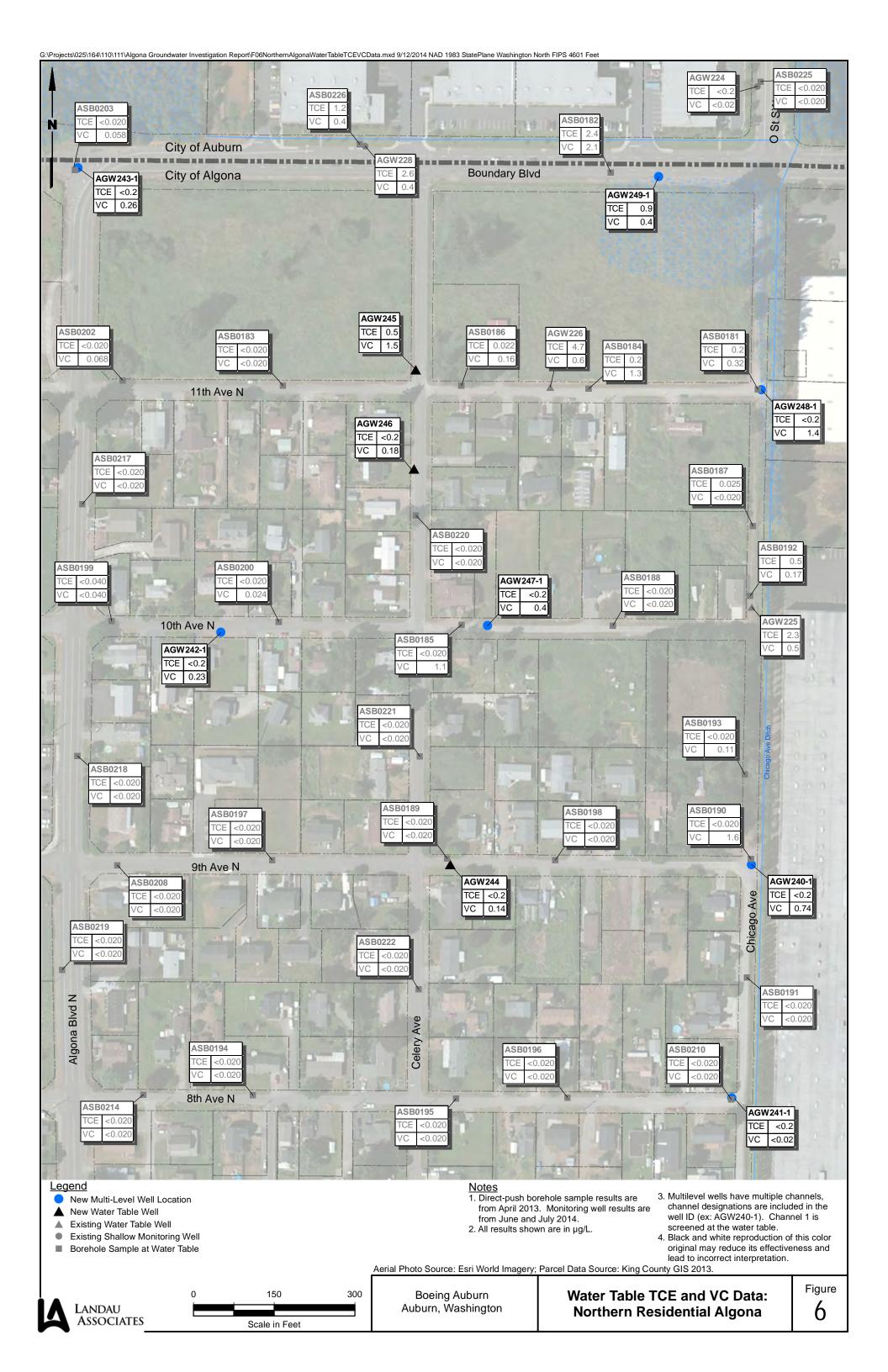


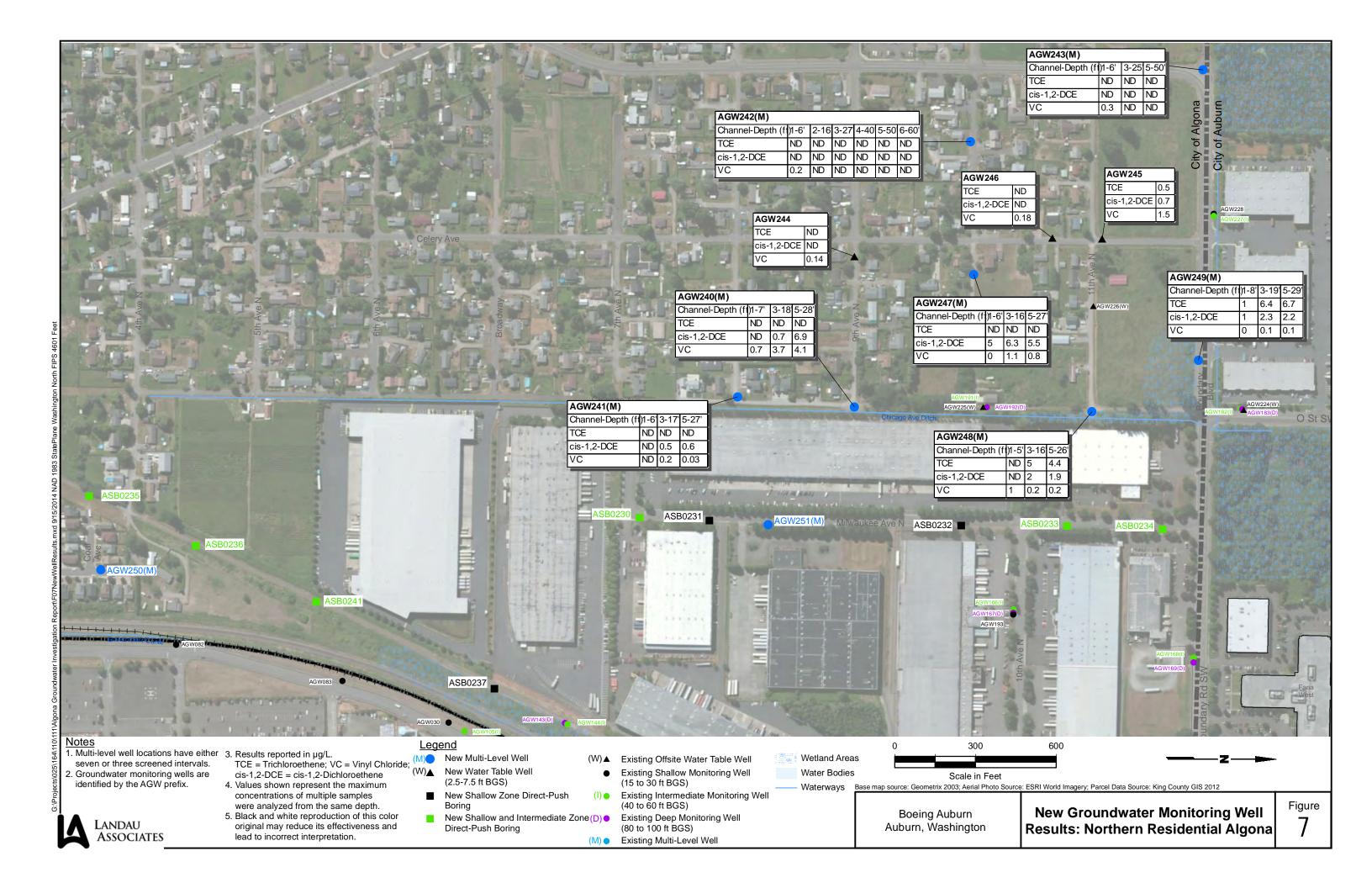


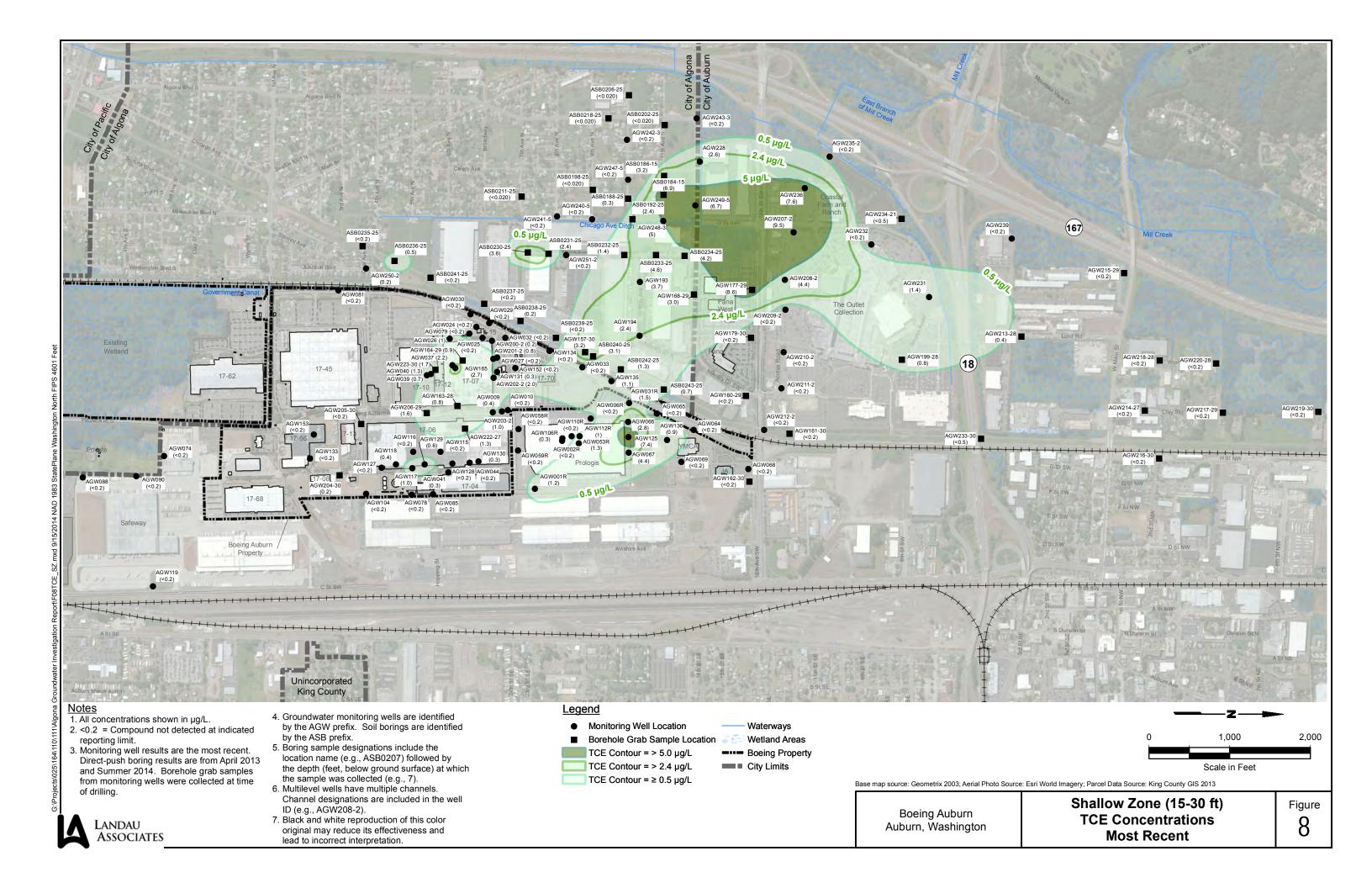


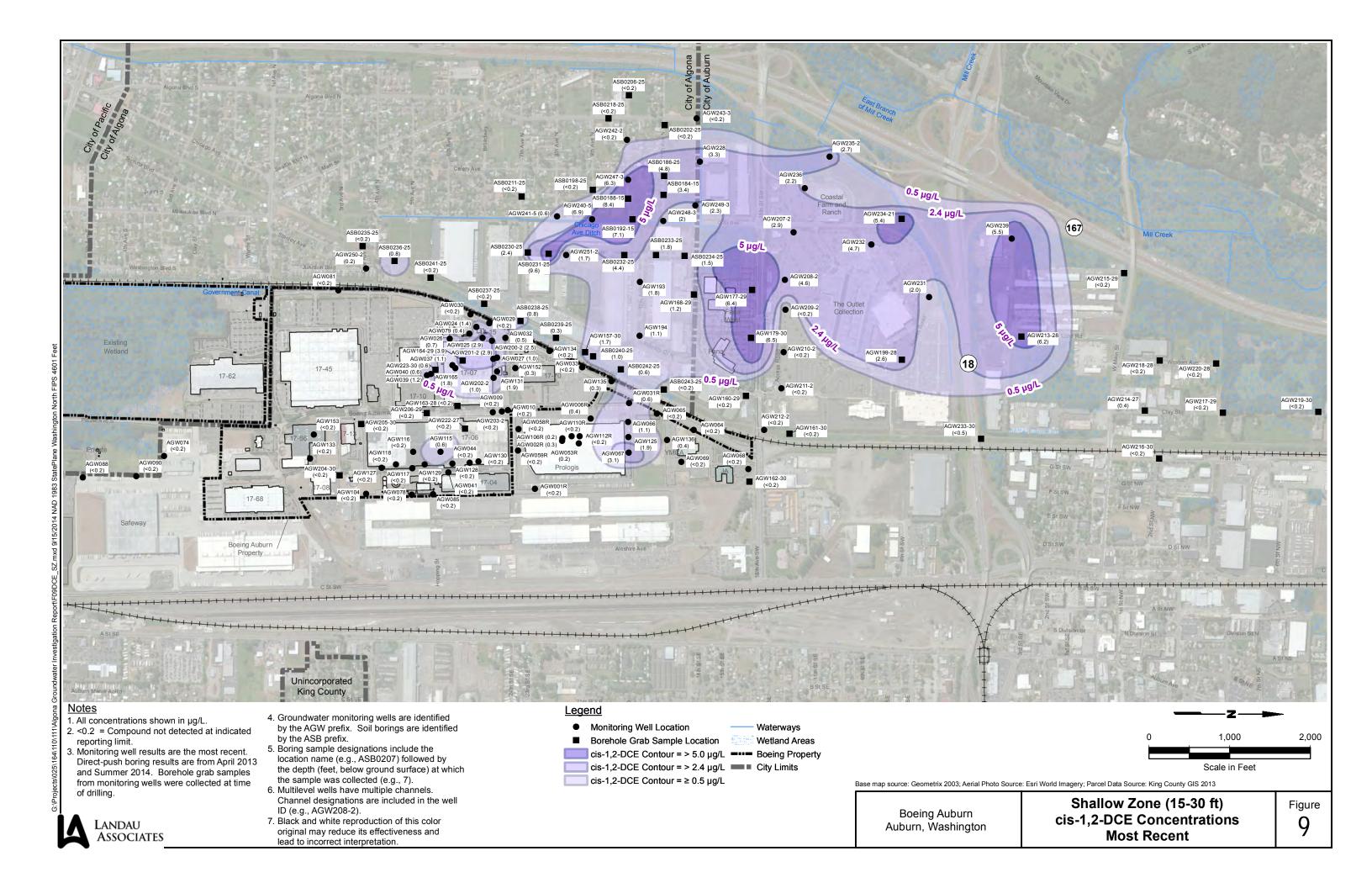


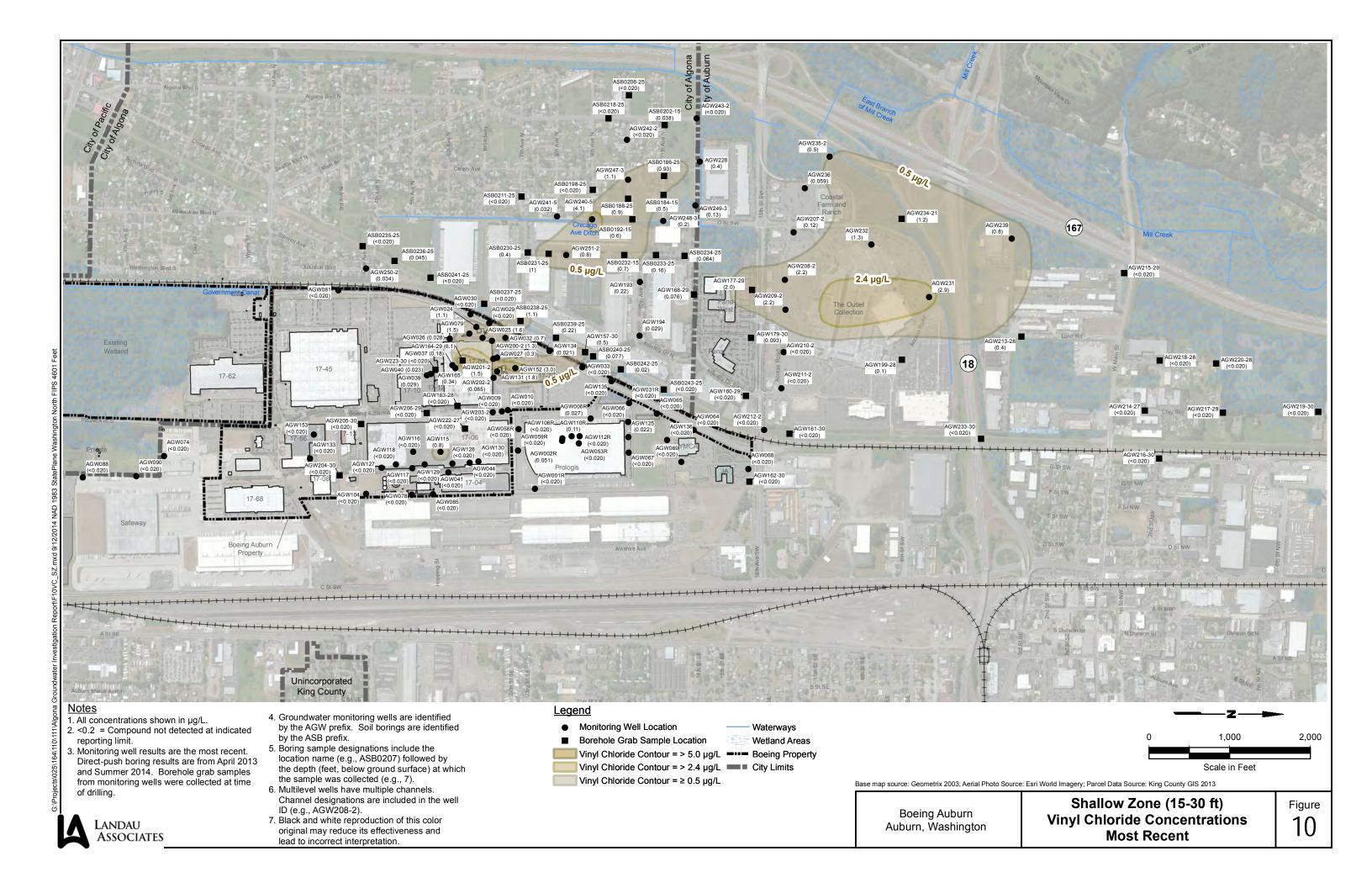


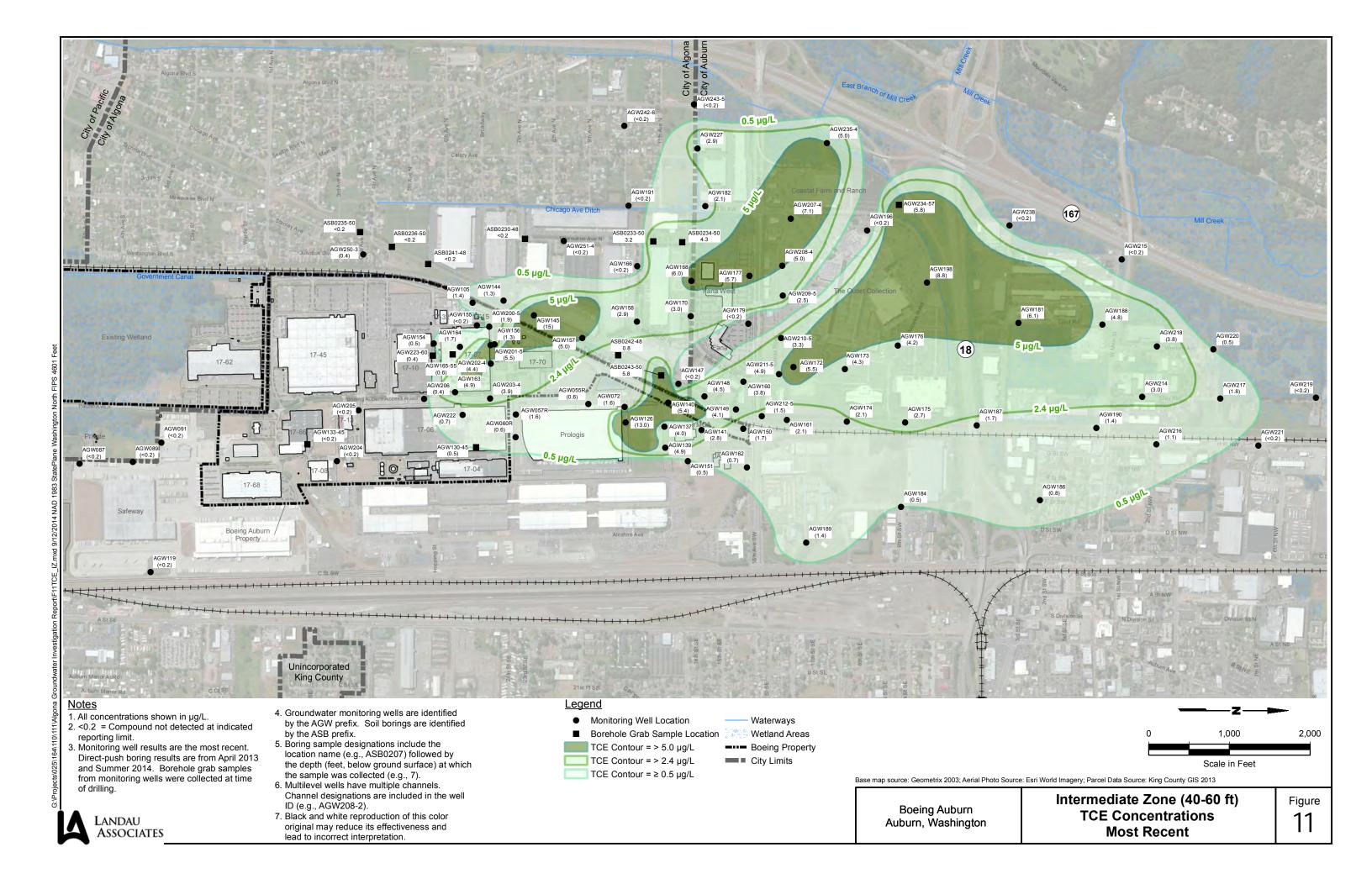


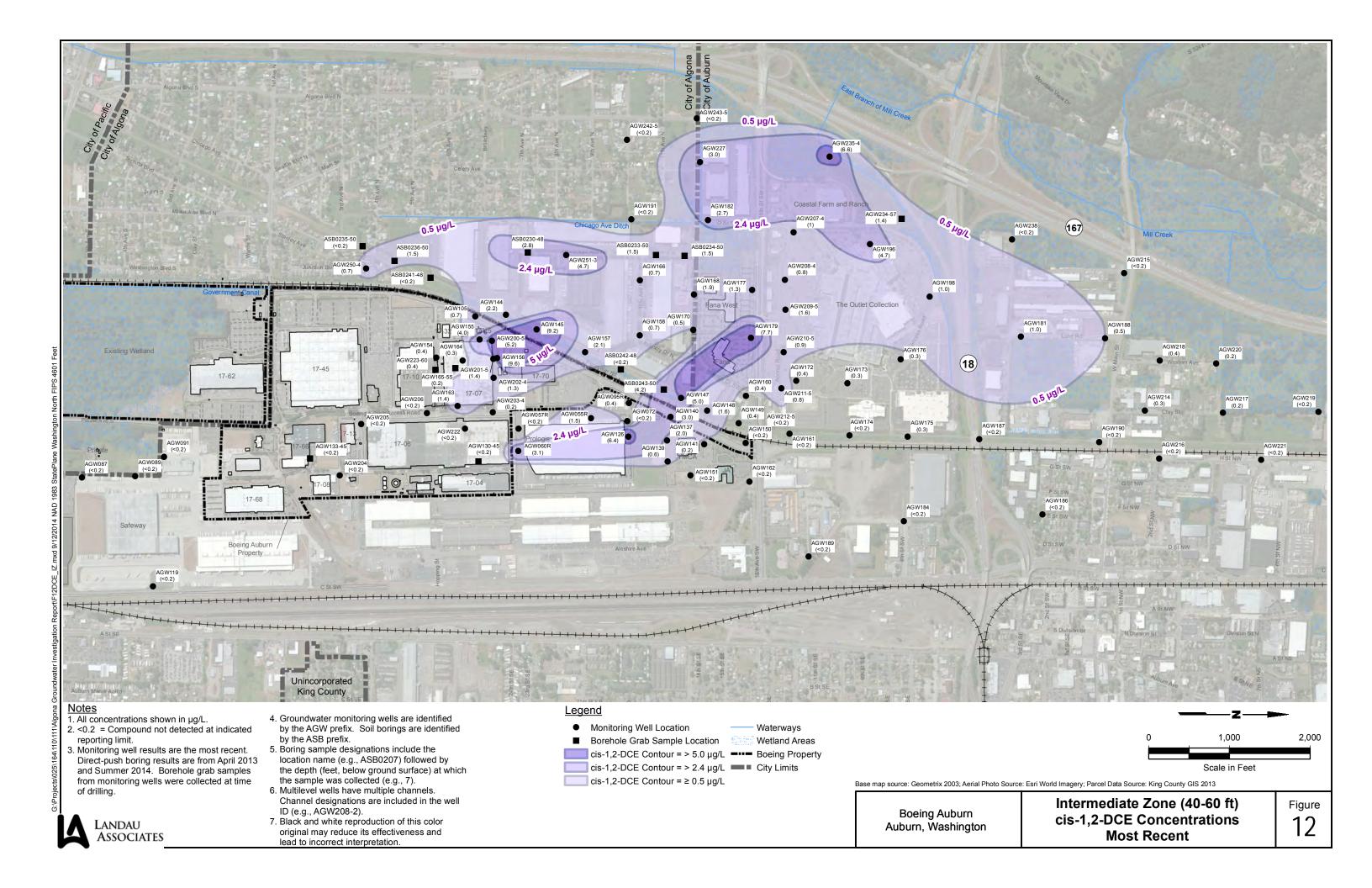


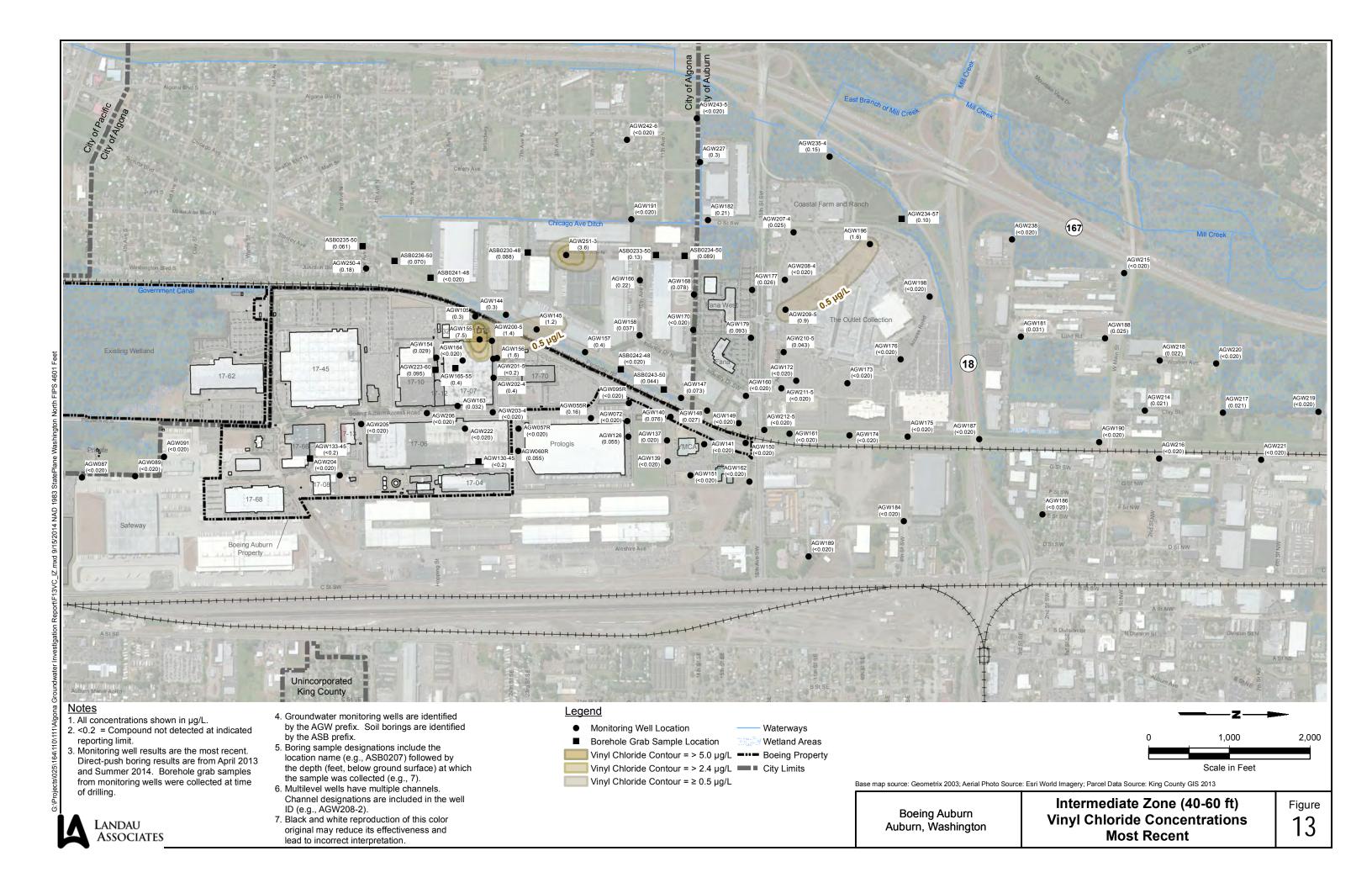


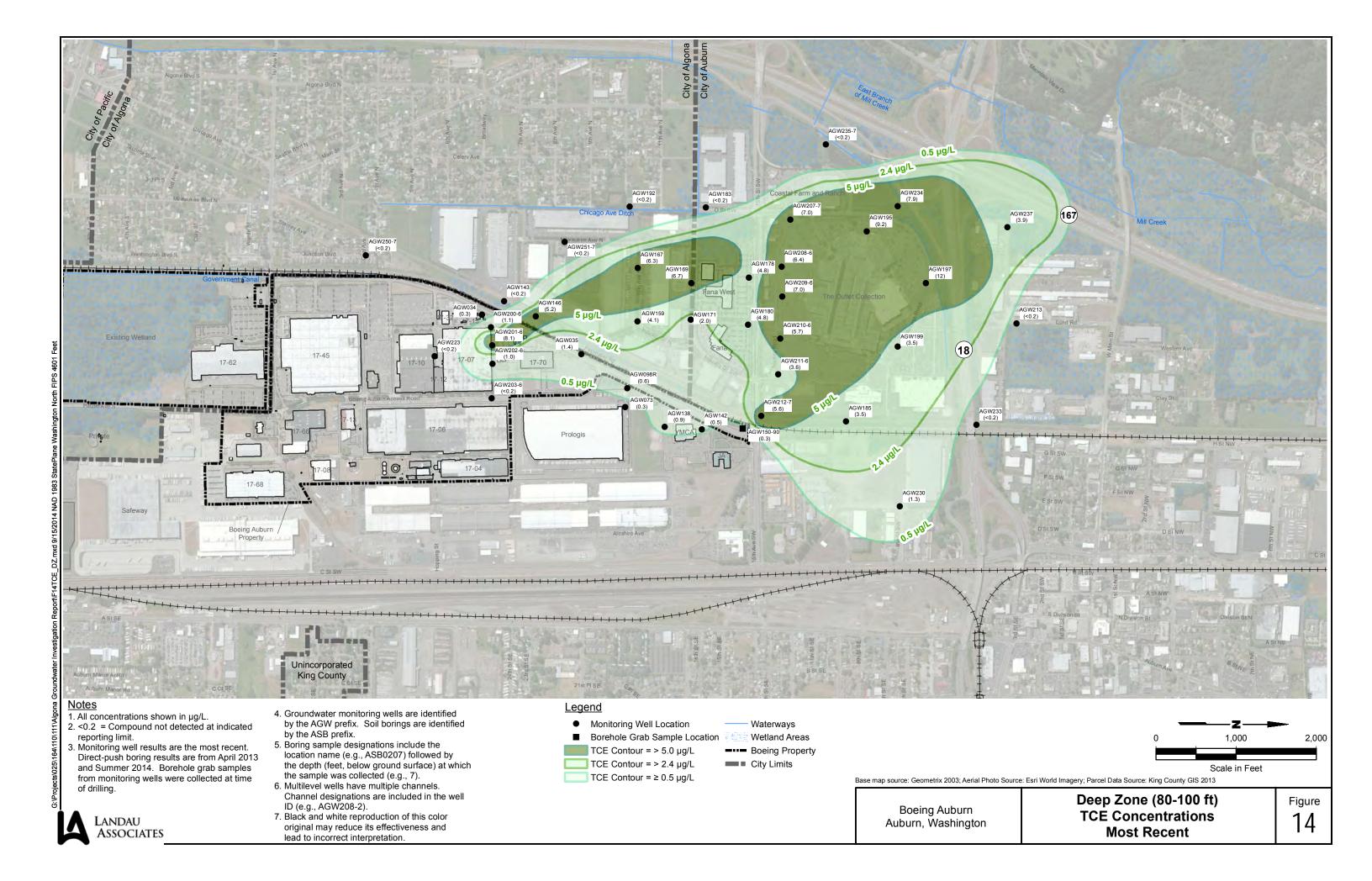


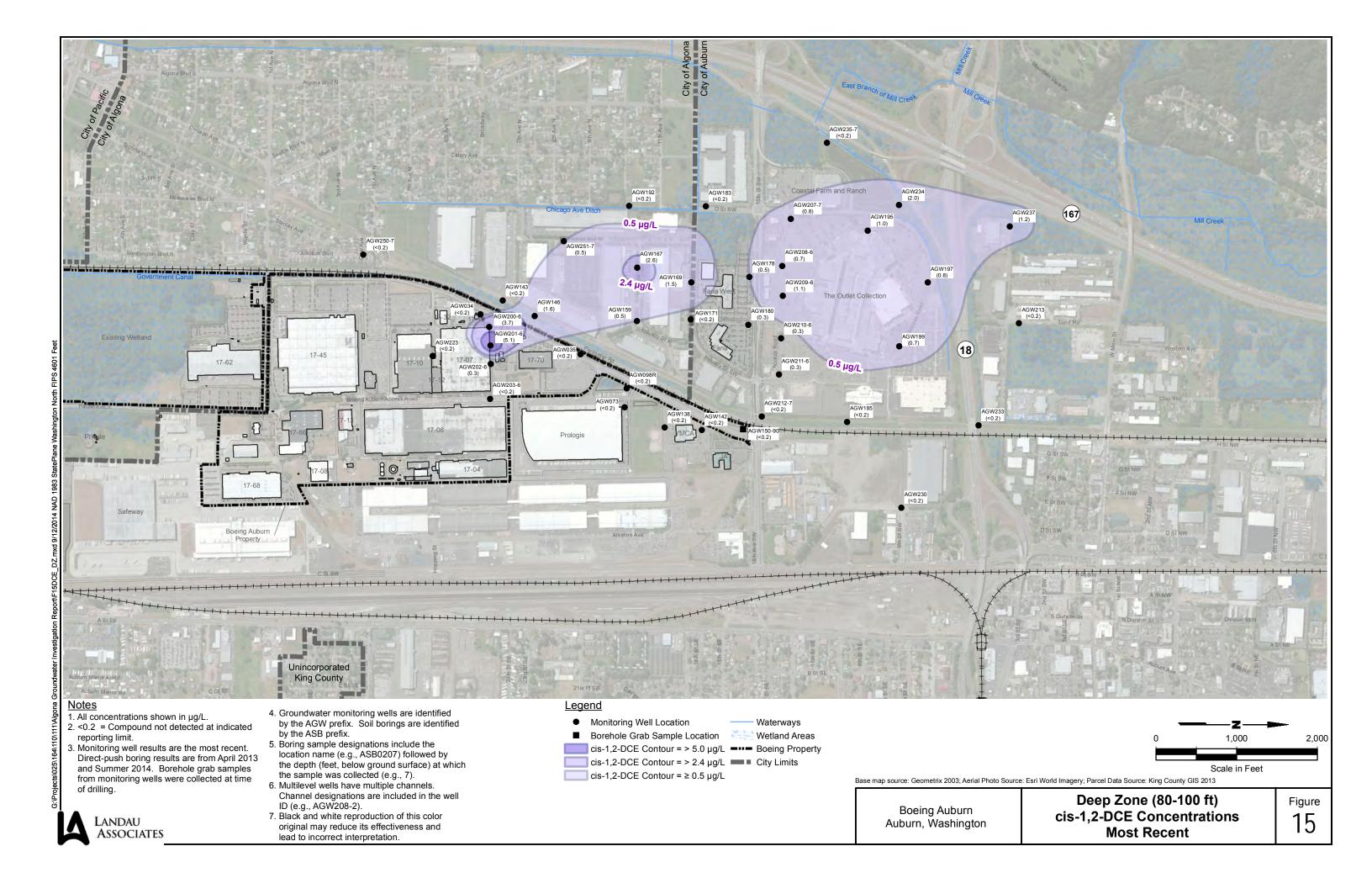


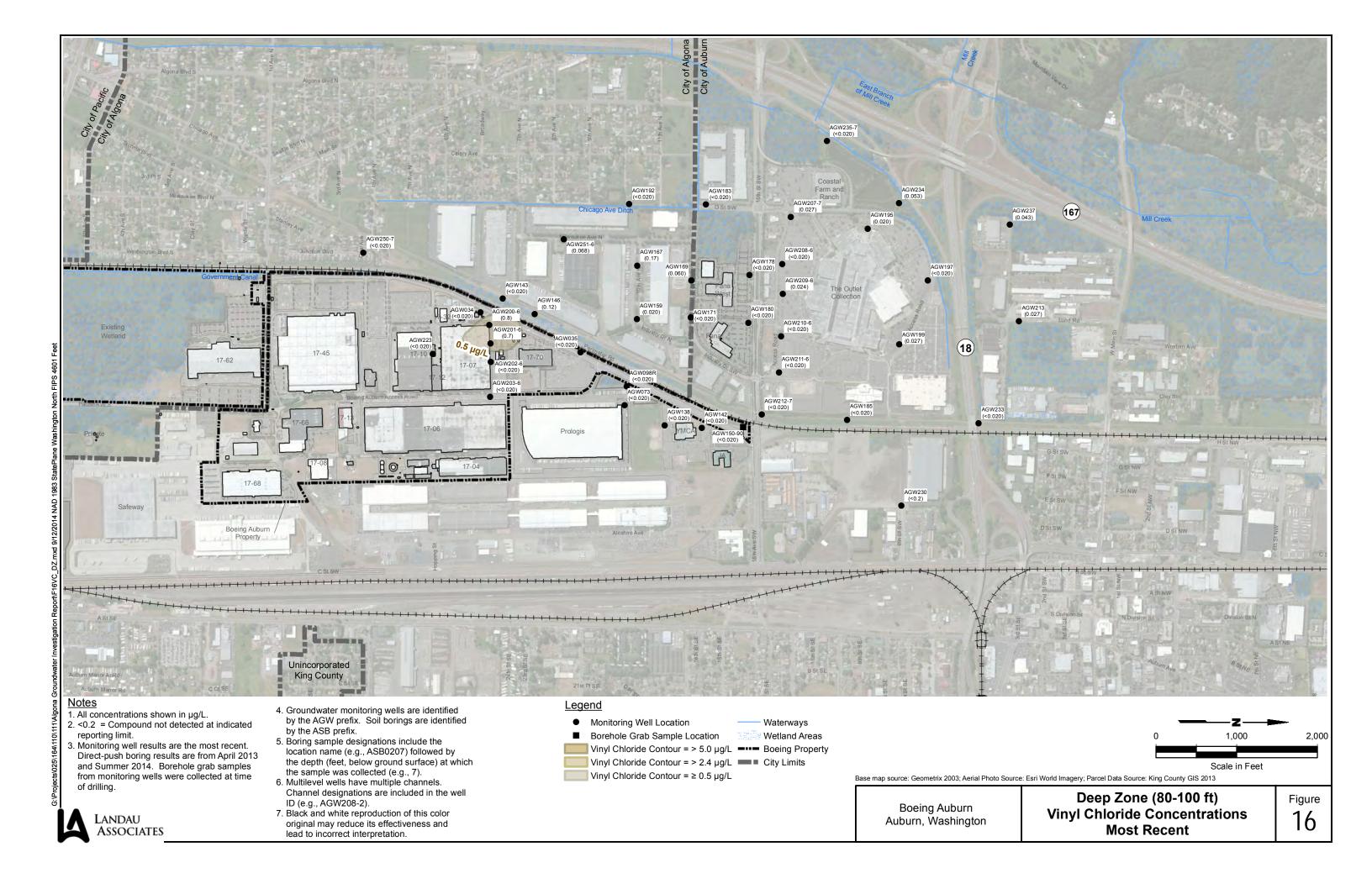


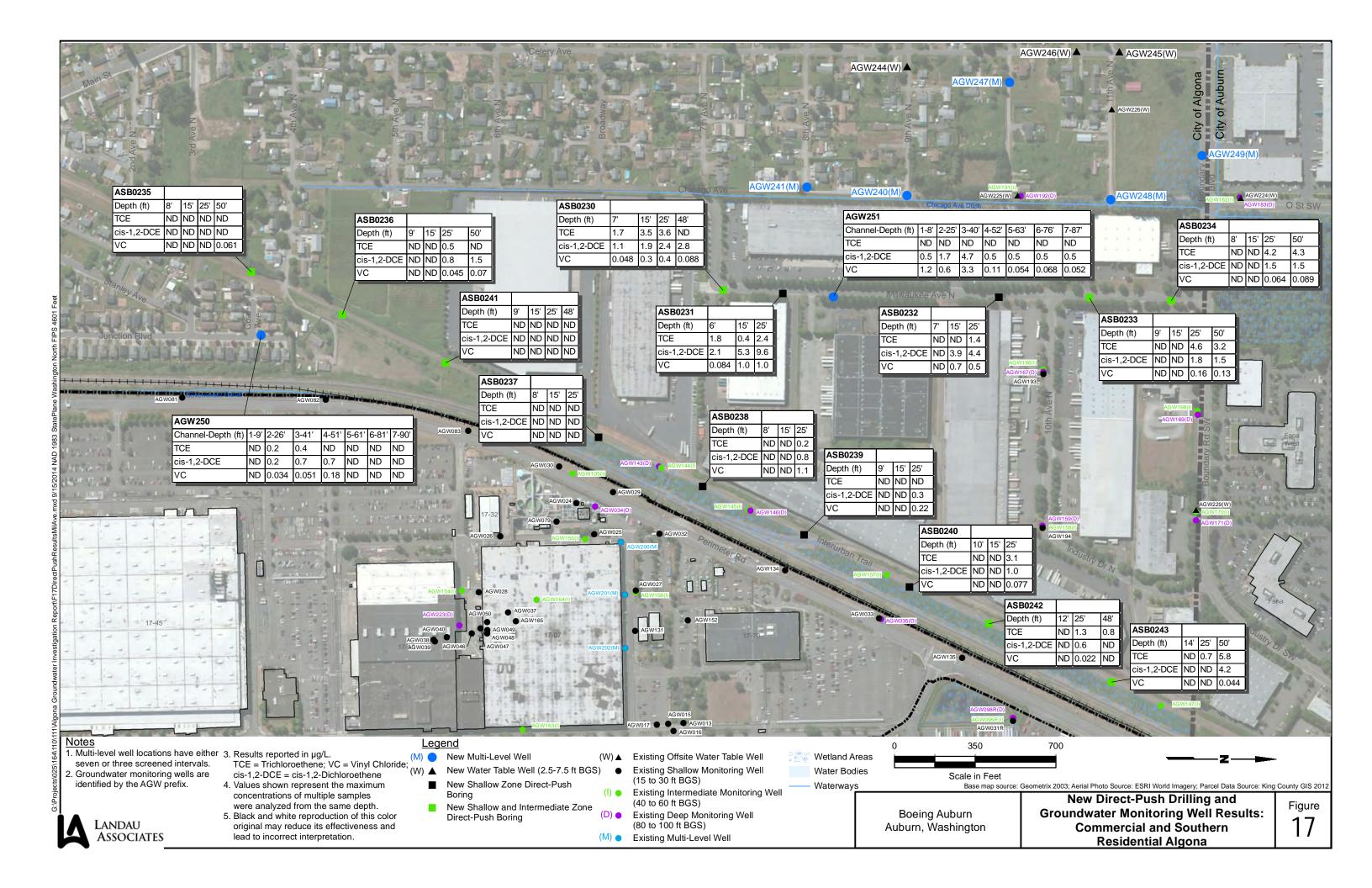












#### TABLE 1 DRILLING AND WELL INSTALLATION MATRIX BOEING AUBURN ALGONA, WASHINGTON

|          |             | Coord    | inates    |           |                |              |             |                         |                         |
|----------|-------------|----------|-----------|-----------|----------------|--------------|-------------|-------------------------|-------------------------|
|          | <u> </u>    | 00014    |           | Well Rim  | Top of Casing  | Date of      | Groundwater | Well Permanent Screen   |                         |
| Well ID  | Well Type   | Northing | Easting   | Elevation | Elevation (ft) | Installation | Zone        | Depth BGS (bottom) (ft) | Notes                   |
| AGW240   | Multi-level | 109028.7 | 1288847.3 | 72.8      |                | 6/10/2014    | S           |                         |                         |
| AGW240-1 |             |          |           |           | 72.49          | 0, 10,2011   | S (WT)      | 7.5                     | Same depth as Channel 2 |
| AGW240-2 |             |          |           |           | 72.48          |              | S (WT)      | 7.5                     | Same depth as Channel 1 |
| AGW240-3 |             |          |           |           | 72.48          |              | S           | 18                      | Same depth as Channel 4 |
| AGW240-4 |             |          |           |           | 72.49          |              | S           | 18                      | Same depth as Channel 3 |
| AGW240-5 |             |          |           |           | 72.50          |              | S           | 28.5                    | Same depth as Channel 6 |
| AGW240-6 |             |          |           |           | 72.51          |              | S           | 28.5                    | Same depth as Channel 5 |
| AGW241   | Multi-level | 108594.7 | 1288810.8 | 73.5      |                | 6/11/2014    | S           |                         | •                       |
| AGW241-1 |             |          |           |           | 73.28          |              | S (WT)      | 6.5                     | Same depth as Channel 2 |
| AGW241-2 |             |          |           |           | 73.28          |              | S (WT)      | 6.5                     | Same depth as Channel 1 |
| AGW241-3 |             |          |           |           | 73.28          |              | S           | 17                      | Same depth as Channel 4 |
| AGW241-4 |             |          |           |           | 73.28          |              | S           | 17                      | Same depth as Channel 3 |
| AGW241-5 |             |          |           |           | 73.27          |              | S           | 27.5                    | Same depth as Channel 6 |
| AGW241-6 |             |          |           |           | 73.28          |              | S           | 27.5                    | Same depth as Channel 5 |
| AGW242   | Multi-level | 109460.7 | 1287860.9 | 70.1      |                | 6/13/2014    | S, I, D     |                         | •                       |
| AGW242-1 |             |          |           |           | 69.84          |              | S (WT)      | 6                       |                         |
| AGW242-2 |             |          |           |           | 69.84          |              | S           | 16.5                    |                         |
| AGW242-3 |             |          |           |           | 69.84          |              | S           | 27                      |                         |
| AGW242-4 |             |          |           |           | 69.84          |              | ı           | 40.5                    |                         |
| AGW242-5 |             |          |           |           | 69.84          |              | ı           | 50.5                    |                         |
| AGW242-6 |             |          |           |           | 69.84          |              | I           | 60.5                    |                         |
| AGW242-7 |             |          |           |           | 69.83          |              | D           | 82                      | Error with Installation |
| AGW243   | Multi-level | 110324.3 | 1287595.8 | 70.7      |                | 6/17/2014    | S, I, D     |                         |                         |
| AGW243-1 |             |          |           |           | 70.44          |              | S (WT)      | 6.5                     | Same depth as Channel 2 |
| AGW243-2 |             |          |           |           | 70.43          |              | S (WT)      | 6.5                     | Same depth as Channel 1 |
| AGW243-3 |             |          |           |           | 70.43          |              | S           | 25.5                    | Same depth as Channel 4 |
| AGW243-4 |             |          |           |           | 70.42          |              | S           | 25.5                    | Same depth as Channel 3 |
| AGW243-5 |             |          |           |           | 70.43          |              | I           | 50.5                    | Same depth as Channel 6 |
| AGW243-6 |             |          |           |           | 70.43          |              | I           | 50.5                    | Same depth as Channel 5 |
| AGW244   | Water Table | 109028.8 | 1288288.0 | 72.4      | 72.04          | 6/16/2014    | S (WT)      | 7.5                     | ·                       |
| AGW245   | Water Table | 109949.2 | 1288223.2 | 70.5      | 70.21          | 6/17/2014    | S (WT)      | 7.5                     |                         |
| AGW246   | Water Table | 109764.4 | 1288220.4 | 70.9      | 70.41          | 6/17/2014    | S (WT)      | 7.5                     |                         |
| AGW247   | Multi-level | 109472.8 | 1288356.7 | 71.8      |                | 6/18/2014    | S           |                         |                         |
| AGW247-1 |             |          |           |           | 71.55          |              | S (WT)      | 6                       | Same depth as Channel 2 |
| AGW247-2 |             |          |           |           | 71.54          |              | S (WT)      | 6                       | Same depth as Channel 1 |
| AGW247-3 |             |          |           |           | 71.54          |              | S           | 16.5                    | Same depth as Channel 4 |
| AGW247-4 |             |          |           |           | 71.54          |              | S           | 16.5                    | Same depth as Channel 3 |
| AGW247-5 |             |          |           |           | 71.54          |              | S           | 27                      | Same depth as Channel 6 |
| AGW247-6 |             |          |           |           | 71.54          |              | S           | 27                      | Same depth as Channel 5 |
| AGW248   | Multi-level | 109911.5 | 1288865.7 | 72.0      |                | 6/19/2014    | S           |                         |                         |
| AGW248-1 |             |          |           |           | 71.83          |              | S (WT)      | 5.5                     | Same depth as Channel 2 |
| AGW248-2 |             |          |           |           | 71.83          |              | S (WT)      | 5.5                     | Same depth as Channel 1 |
| AGW248-3 |             |          |           |           | 71.83          |              | S           | 16                      | Same depth as Channel 4 |
| AGW248-4 |             |          |           |           | 71.82          |              | S           | 16                      | Same depth as Channel 3 |
| AGW248-5 |             |          |           |           | 71.82          |              | S           | 26.5                    | Same depth as Channel 6 |

#### TABLE 1 DRILLING AND WELL INSTALLATION MATRIX BOEING AUBURN ALGONA, WASHINGTON

|          |             | Coord    | inates    |                       |                                 |                         |                     |                                                  |                         |
|----------|-------------|----------|-----------|-----------------------|---------------------------------|-------------------------|---------------------|--------------------------------------------------|-------------------------|
| Well ID  | Well Type   | Northing | Easting   | Well Rim<br>Elevation | Top of Casing<br>Elevation (ft) | Date of<br>Installation | Groundwater<br>Zone | Well Permanent Screen<br>Depth BGS (bottom) (ft) | Notes                   |
| AGW248-6 |             |          |           |                       | 71.82                           |                         | S                   | 26.5                                             | Same depth as Channel 5 |
| AGW249   | Multi-level | 110307.8 | 1288674.8 | 73.7                  |                                 | 6/20/2014               | S                   |                                                  | •                       |
| AGW249-1 |             |          |           |                       | 73.41                           |                         | S (WT)              | 8.5                                              | Same depth as Channel 2 |
| AGW249-2 |             |          |           |                       | 73.41                           |                         | S (WT)              | 8.5                                              | Same depth as Channel 1 |
| AGW249-3 |             |          |           |                       | 73.40                           |                         | S                   | 19                                               | Same depth as Channel 4 |
| AGW249-4 |             |          |           |                       | 73.39                           |                         | S                   | 19                                               | Same depth as Channel 3 |
| AGW249-5 |             |          |           |                       | 73.39                           |                         | S                   | 29.5                                             | Same depth as Channel 6 |
| AGW249-6 |             |          |           |                       | 73.40                           |                         | S                   | 29.5                                             | Same depth as Channel 5 |
| AGW250   | Multi-level | 106226.5 | 1289453.0 | 78.8                  |                                 | 6/24/2014               | S, I, D             |                                                  | •                       |
| AGW250-1 |             |          |           |                       | 78.45                           |                         | S (WT)              | 9                                                |                         |
| AGW250-2 |             |          |           |                       | 78.44                           |                         | S                   | 26.5                                             |                         |
| AGW250-3 |             |          |           |                       | 78.44                           |                         | I                   | 41.5                                             |                         |
| AGW250-4 |             |          |           |                       | 78.45                           |                         | I                   | 51.5                                             |                         |
| AGW250-5 |             |          |           |                       | 78.45                           |                         | I                   | 61.5                                             |                         |
| AGW250-6 |             |          |           |                       | 78.46                           |                         | D                   | 81.5                                             |                         |
| AGW250-7 |             |          |           |                       | 78.45                           |                         | D                   | 89.7                                             |                         |
| AGW251   | Multi-level | 108708.6 | 1289286.7 | 76.5                  |                                 | 6/27/2014               | S, I, D             |                                                  |                         |
| AGW251-1 |             |          |           |                       | 76.09                           |                         | S (WT)              | 8.5                                              |                         |
| AGW251-2 |             |          |           |                       | 76.08                           |                         | S                   | 25.5                                             |                         |
| AGW251-3 |             |          |           |                       | 76.07                           |                         | I                   | 40.5                                             |                         |
| AGW251-4 |             |          |           |                       | 76.07                           |                         | I                   | 52.5                                             |                         |
| AGW251-5 |             |          |           |                       | 76.08                           |                         | I                   | 63                                               |                         |
| AGW251-6 |             |          |           |                       | 76.08                           |                         | D                   | 76.5                                             |                         |
| AGW251-7 |             |          |           |                       | 76.07                           |                         | D                   | 86.75                                            |                         |

BGS = Below ground surface

ft = Feet

Conventional = Well with a single screen located in either the shallow, intermediate, or deep zone.

Multilevel = Well with up to seven separate screens, which are located in the shallow, intermediate, and deep zones

S = Shallow Zone

I = Intermediate Zone

D = Deep Zone

#### Notes:

Coordinate System and Zone: Washington State Plane, North Zone Coordinates Horizontal Datum: North American Datum of 1983 (91), North Zone, U.S. Feet.

Vertical Datum: National Geodetic Vertical Datum of 1929, U.S. Feet.

To convert elevations shown hereon to North American Vertical Datum of 1988 elevations please add 3.49 feet.

#### TABLE 2 DIRECT-PUSH BOREHOLE SAMPLING MATRIX BOEING AUBURN ALGONA, WASHINGTON

| Boring ID | Location Description | Date of<br>Installation | Groundwater<br>Zone | Boring Sample Depth BGS (ft) and Groundwater Zone | Depth to Water At Time of Drilling (ft BGS) |
|-----------|----------------------|-------------------------|---------------------|---------------------------------------------------|---------------------------------------------|
| ASB0230   | Milwaukee Avenue     | 6/23/2014               | S, I                | 7 (WT), 15 (S), 25 (S), 48 (I)                    | 4                                           |
| ASB0231   | Milwaukee Avenue     | 6/24/2014               | S                   | 6 (WT), 15 (S), 25 (S)                            | 3.2                                         |
| ASB0232   | Milwaukee Avenue     | 6/24/2014               | S                   | 7 (WT), 15 (S), 25 (S)                            | 4.1                                         |
| ASB0233   | Milwaukee Avenue     | 6/25/2014               | S, I                | 9 (WT), 15 (S), 25 (S), 50 (I)                    | 6.1                                         |
| ASB0234   | Milwaukee Avenue     | 6/26/2014               | S, I                | 8 (WT), 15 (S), 25 (S), 50 (I)                    | 4.4                                         |
| ASB0235   | Interurban Trail     | 7/7/2014                | S, I                | 8 (WT), 15 (S), 25 (S), 50 (I)                    | 6.4                                         |
| ASB0236   | Interurban Trail     | 7/8/2014                | S, I                | 9 (WT), 15 (S), 25 (S), 50 (I)                    | 6.05                                        |
| ASB0237   | Interurban Trail     | 7/9/2014                | S                   | 8 (WT), 15 (S), 25 (S)                            | 6.1                                         |
| ASB0238   | Interurban Trail     | 7/9/2014                | S                   | 8 (WT), 15 (S), 25 (S)                            | 5.65                                        |
| ASB0239   | Interurban Trail     | 7/10/2014               | S                   | 9 (WT), 15 (S), 25 (S)                            | 6.85                                        |
| ASB0240   | Interurban Trail     | 7/10/2014               | S                   | 10 (WT), 15 (S), 25 (S)                           | 8.05                                        |
| ASB0241   | Interurban Trail     | 7/11/2014               | S, I                | 9 (WT), 15 (S), 25 (S), 48 (I)                    | 6.9                                         |
| ASB0242   | Interurban Trail     | 7/14/2014               | S, I                | 12 (WT), 25 (S), 48 (I)                           | 10.1                                        |
| ASB0243   | Interurban Trail     | 7/15/2014               | S, I                | 14 (WT), 25 (S), 50 (I)                           | 11.8                                        |

BGS = Below ground surface

ft = Feet

WT = Water Table

S = Shallow Zone

I = Intermediate Zone

| Well     | Depth to Water (ft) | Date     | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|----------|---------------------|----------|--------------|---------------------------------------|
| AGW001R  | 13.11               | 7/8/2014 | S            | 74.04                                 |
| AGW002R  | 17.24               | 7/7/2014 | S            | 73.71                                 |
| AGW006R  | 13.12               | 7/8/2014 | S            | 73.34                                 |
| AGW009   | 11.99               | 7/7/2014 | S            | 74.38                                 |
| AGW010   | 12.03               | 7/8/2014 | S            | 74.22                                 |
| AGW011   | 11.99               | 7/7/2014 | S            | 74.29                                 |
| AGW012   | 11.93               | 7/7/2014 | S            | 74.32                                 |
| AGW013   | 11.74               | 7/7/2014 | S            | 74.11                                 |
| AGW014   | 11.70               | 7/7/2014 | S            | 74.21                                 |
| AGW015   | 11.52               | 7/8/2014 | S            | 74.19                                 |
| AGW016   | 11.56               | 7/7/2014 | S            | 74.20                                 |
| AGW017   | 11.78               | 7/7/2014 | S            | 74.32                                 |
| AGW018   | 11.75               | 7/7/2014 | S            | 75.91                                 |
| AGW020   | 13.81               | 7/7/2014 | S            | 75.98                                 |
| AGW021   | 14.05               | 7/7/2014 | S            | 75.66                                 |
| AGW022   | 14.10               | 7/7/2014 | S            | 75.84                                 |
| AGW023   | 12.69               | 7/7/2014 | S            | 75.71                                 |
| AGW024   | 10.28               | 7/7/2014 | S            | 74.28                                 |
| AGW025   | 11.55               | 7/7/2014 | S            | 74.34                                 |
| AGW026   | 11.34               | 7/7/2014 | S            | 74.53                                 |
| AGW027   | 13.79               | 7/7/2014 | S            | 74.22                                 |
| AGW028   | 13.58               | 7/8/2014 | S            | 74.60                                 |
| AGW029   | 13.02               | 7/7/2014 | S            | 74.00                                 |
| AGW030   | 12.58               | 7/7/2014 | S            | 74.11                                 |
| AGW031R  | 12.86               | 7/8/2014 | S            | 73.10                                 |
| AGW032   | 14.11               | 7/7/2014 | S            | 74.09                                 |
| AGW033   | 14.15               | 7/7/2014 | S            | 73.04                                 |
| AGW034   | 10.79               | 7/7/2014 | D            | 74.15                                 |
| AGW035   | 14.01               | 7/8/2014 | D            | 73.28                                 |
| AGW037   | 11.92               | 7/8/2014 | S            | 74.61                                 |
| AGW038   | 11.43               | 7/8/2014 | S            | 74.97                                 |
| AGW039   | 11.65               | 7/8/2014 | S            | 74.78                                 |
| AGW040   | 11.69               | 7/8/2014 | S            | 74.76                                 |
| AGW041   | 11.61               | 7/7/2014 | S            | 74.84                                 |
| AGW042   | 11.25               | 7/7/2014 | S            | 74.65                                 |
| AGW043   |                     |          | S            |                                       |
| AGW044   | 11.87               | 7/7/2014 | S            | 74.65                                 |
| AGW046   | 11.26               | 7/8/2014 | S            | 74.67                                 |
| AGW047   | 11.54               | 7/8/2014 | S            | 74.65                                 |
| AGW048   | 11.63               | 7/8/2014 | S            | 74.64                                 |
| AGW049   | 11.73               | 7/8/2014 | S            | 74.66                                 |
| AGW050   | 11.57               | 7/8/2014 | S            | 74.63                                 |
| AGW053R  | 17.45               | 7/7/2014 | S            | 73.53                                 |
| AGW055R  | 12.99               | 7/8/2014 | I            | 73.32                                 |
| AGW057R  | 15.49               | 7/8/2014 | i            | 74.15                                 |
| AGW057R  | 15.76               | 7/8/2014 | S            | 74.16                                 |
| AGW059R  | 14.96               | 7/8/2014 | S            | 74.27                                 |
| AGW060R  | 14.92               | 7/8/2014 | I            | 74.19                                 |
| AGW064   | 15.61               | 7/8/2014 | S            | 72.78                                 |
| AGW065   | 13.07               | 7/8/2014 | S            | 72.95                                 |
| AGW066   | 16.45               | 7/8/2014 | S            | 73.13                                 |
| AGW067   | 16.44               | 7/8/2014 | S            | 73.07                                 |
| AGW068   | 12.49               | 7/8/2014 | S            | 74.55                                 |
| AGW069   | 14.40               | 7/8/2014 | S            | 73.13                                 |
| AGW072   | 16.59               | 7/8/2014 | Ĭ            | 73.04                                 |
| AGW072   | 16.50               | 7/8/2014 | D            | 73.06                                 |
| AGW074   | 11.18               | 7/7/2014 | S            | 76.45                                 |
| AGW074   | 11.10               | 7/7/2014 | S            | 75.12                                 |
| AGW077   | 11.59               | 7/7/2014 | S            | 75.12                                 |
| 7.077017 | 11.00               | 1/1/2017 |              | 70.17                                 |

| Well    | Depth to Water<br>(ft) | Date     | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|---------|------------------------|----------|--------------|---------------------------------------|
| AGW078  | 12.13                  | 7/7/2014 | S            | 75.15                                 |
| AGW079  | 10.26                  | 7/7/2014 | S            | 74.43                                 |
| AGW080  | 7.44                   | 7/7/2014 | S            | 74.77                                 |
| AGW081  | 7.80                   | 7/7/2014 | S            | 74.57                                 |
| AGW082  | 9.34                   | 7/7/2014 | S            | 74.49                                 |
| AGW083  | 12.16                  | 7/7/2014 | S            | 74.28                                 |
| AGW084  | 11.25                  | 7/7/2014 | S            | 74.95                                 |
| AGW085  | 11.48                  | 7/7/2014 | S            | 74.94                                 |
| AGW086  | 11.82                  | 7/7/2014 | S            | 74.92                                 |
| AGW087  | 8.96                   | 7/7/2014 | I            | 76.83                                 |
| AGW088  | 9.39                   | 7/7/2014 | S            | 76.46                                 |
| AGW089  | 10.13                  | 7/7/2014 | I            | 76.67                                 |
| AGW090  | 9.81                   | 7/7/2014 | S            | 76.69                                 |
| AGW091  | 10.90                  | 7/7/2014 | I            | 76.42                                 |
| AGW095R | 12.43                  | 7/8/2014 | I            | 73.10                                 |
| AGW098R | 12.60                  | 7/8/2014 | D            | 73.21                                 |
| AGW100  | 9.65                   | 7/7/2014 | S            | 75.75                                 |
| AGW101  | 9.67                   | 7/7/2014 | I            | 75.83                                 |
| AGW102  | 9.79                   | 7/7/2014 | D            | 75.68                                 |
| AGW103  | 13.21                  | 7/7/2014 | S            | 76.17                                 |
| AGW104  | 13.49                  | 7/7/2014 | S            | 75.49                                 |
| AGW105  | 13.13                  | 7/7/2014 | I            | 74.20                                 |
| AGW106R | 17.29                  | 7/7/2014 | S            | 73.68                                 |
| AGW110R | 17.48                  | 7/7/2014 | S            | 73.58                                 |
| AGW112R | 17.47                  | 7/7/2014 | S            | 73.49                                 |
| AGW115  | 11.57                  | 7/7/2014 | S            | 74.96                                 |
| AGW116  | 11.59                  | 7/7/2014 | S            | 75.10                                 |
| AGW117  | 11.32                  | 7/7/2014 | S            | 75.17                                 |
| AGW118  |                        |          | S            |                                       |
| AGW119  | 16.32                  | 7/7/2014 | I            | 77.94                                 |
| AGW120  | 16.29                  | 7/7/2014 | S            | 77.95                                 |
| AGW121  | 12.69                  | 7/7/2014 | S            | 78.58                                 |
| AGW125  | 15.70                  | 7/8/2014 | S            | 73.15                                 |
| AGW126  | 15.79                  | 7/8/2014 | 1            | 73.09                                 |
| AGW127  | 11.02                  | 7/7/2014 | S            | 75.52                                 |
| AGW128  | 11.96                  | 7/7/2014 | S            | 74.68                                 |
| AGW129  | 11.66                  | 7/7/2014 | S            | 75.00                                 |
| AGW130  | 12.01                  | 7/7/2014 | S            | 74.63                                 |
| AGW131  | 11.76                  | 7/7/2014 | S            | 74.22                                 |
| AGW132  | 11.25                  | 7/7/2014 | S            | 75.71                                 |
| AGW133  | 12.35                  | 7/7/2014 | S            | 75.76                                 |
| AGW134  | 10.23                  | 7/7/2014 | S            | 73.42                                 |
| AGW135  | 11.40                  | 7/8/2014 | S            | 73.14                                 |
| AGW136  | 13.78                  | 7/8/2014 | S            | 72.82                                 |
| AGW137  | 13.60                  | 7/8/2014 | I            | 72.84                                 |
| AGW138  | 13.92                  | 7/8/2014 | D            | 72.72                                 |
| AGW139  | 14.00                  | 7/8/2014 | 1            | 72.68                                 |
| AGW140  | 13.26                  | 7/8/2014 | I            | 72.66                                 |
| AGW141  | 14.22                  | 7/8/2014 | 1            | 72.15                                 |
| AGW142  | 14.49                  | 7/8/2014 | D            | 72.02                                 |
| AGW143  | 5.15                   | 7/8/2014 | D            | 73.83                                 |
| AGW144  | 5.20                   | 7/8/2014 | 1            | 73.85                                 |
| AGW145  | 4.55                   | 7/8/2014 | I            | 73.59                                 |
| AGW146  | 5.07                   | 7/8/2014 | D            | 73.62                                 |
| AGW147  | 11.75                  | 7/8/2014 | I            | 72.74                                 |
| AGW148  | 11.47                  | 7/8/2014 | I            | 72.33                                 |
| AGW149  | 12.95                  | 7/8/2014 | I            | 71.78                                 |
| AGW150  | 11.78                  | 7/8/2014 | 1            | 71.76                                 |
| AGW151  | 13.95                  | 7/8/2014 | I            | 72.31                                 |
| AGW152  | 10.39                  | 7/7/2014 | S            | 74.00                                 |

| Well                 | Depth to Water<br>(ft) | Date       | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|----------------------|------------------------|------------|--------------|---------------------------------------|
| AGW153               | 12.97                  | 7/7/2014   | S            | 75.55                                 |
| AGW154               | 11.57                  | 7/8/2014   | ı            | 74.49                                 |
| AGW155               | 11.94                  | 7/7/2014   | ı            | 74.18                                 |
| AGW156               | 14.33                  | 7/7/2014   | ı            | 74.12                                 |
| AGW157               | 8.00                   | 7/8/2014   | 1            | 73.20                                 |
| AGW158               | 9.56                   | 7/8/2014   | i            | 72.59                                 |
| AGW159               | 9.32                   | 7/8/2014   | D            | 72.71                                 |
| AGW160               | 12.90                  | 7/8/2014   | ī            | 71.70                                 |
| AGW161               | 10.39                  | 7/8/2014   | i            | 71.29                                 |
| AGW162               | 13.67                  | 7/8/2014   | i            | 71.64                                 |
| AGW163               | 11.78                  | 7/7/2014   | i            | 74.62                                 |
| AGW164               | 12.06                  | 7/8/2014   | i            | 74.46                                 |
| AGW 165              | 11.63                  | 7/8/2014   | S            | 74.87                                 |
| AGW 166              | 5.82                   | 7/8/2014   | Ī            | 71.79                                 |
| AGW 167              | 5.78                   | 7/8/2014   | D            |                                       |
|                      | +                      |            | I            | 72.33                                 |
| AGW168               | 6.39                   | 7/8/2014   | D            | 71.56                                 |
| AGW169               | 6.32                   | 7/8/2014   | I I          | 71.80                                 |
| AGW170               | 7.98                   | 7/8/2014   |              | 72.23                                 |
| AGW171               | 8.05                   | 7/8/2014   | D            | 72.38                                 |
| AGW172               | 13.12                  | 7/8/2014   | !!           | 71.13                                 |
| AGW173               | 15.09                  | 7/8/2014   | !            | 70.59                                 |
| AGW174               | 7.34                   | 7/8/2014   | !            | 70.69                                 |
| AGW175               | 5.45                   | 7/8/2014   | l            | 69.71                                 |
| AGW176               | 10.93                  | 7/8/2014   | I            | 69.55                                 |
| AGW177               | 6.98                   | 7/8/2014   | I            | 70.78                                 |
| AGW178               | 6.83                   | 7/8/2014   | D            | 70.91                                 |
| AGW179               | 7.90                   | 7/8/2014   | I            | 71.32                                 |
| AGW180               | 7.50                   | 7/8/2014   | D            | 71.50                                 |
| AGW181               | 3.01                   | 7/8/2014   | I            | 67.13                                 |
| AGW182               | 3.48                   | 7/8/2014   | I            | 69.68                                 |
| AGW183               | 3.37                   | 7/8/2014   | D            | 69.64                                 |
| AGW184               | 6.44                   | 7/8/2014   | I            | 70.82                                 |
| AGW185               | 6.54                   | 7/8/2014   | D            | 70.85                                 |
| AGW186               | 5.24                   | 7/8/2014   | [            | 67.76                                 |
| AGW187               | 3.62                   | 7/8/2014   | [            | 68.59                                 |
| AGW188               | 2.00                   | 7/8/2014   | 1            | 64.90                                 |
| AGW189               | 13.93                  | 7/8/2014   | I            | 70.94                                 |
| AGW190               | 2.58                   | 7/8/2014   | 1            | 67.10                                 |
| AGW191               | 1.90                   | 7/8/2014   | I            | 70.40                                 |
| AGW192               | 2.14                   | 7/8/2014   | D            | 70.25                                 |
| AGW193               | 6.67                   | 7/8/2014   | S            | 71.66                                 |
| AGW194               | 9.72                   | 7/8/2014   | S            | 72.57                                 |
| AGW195               | 9.40                   | 7/8/2014   | D            | 68.78                                 |
| AGW196               | 9.53                   | 7/8/2014   | I            | 68.56                                 |
| AGW197               | 4.84                   | 7/8/2014   | D            | 68.41                                 |
| AGW198               | 4.98                   | 7/8/2014   | I            | 68.41                                 |
| AGW199               | 10.68                  | 7/8/2014   | D            | 69.84                                 |
| AGW200-1             | 12.18                  | 7/8/2014   | CMT-S        | 74.09                                 |
| AGW200-2             | 12.20                  | 7/8/2014   | CMT-S        | 74.07                                 |
| AGW200-3             | 12.23                  | 7/8/2014   | CMT-I        | 74.03                                 |
| AGW200-4             | 12.20                  | 7/8/2014   | CMT-I        | 74.07                                 |
| AGW200-5             | 12.23                  | 7/8/2014   | CMT-I        | 74.04                                 |
| AGW200-6             | 12.25                  | 7/8/2014   | CMT-D        | 73.99                                 |
| AGW200-7             | 12.29                  | 7/8/2014   | CMT-D        | 73.98                                 |
| AGW201-1             | 12.18                  | 7/8/2014   | CMT-S        | 74.16                                 |
| AGW201-2             | 12.18                  | 7/8/2014   | CMT-S        | 74.18                                 |
| AGW201-3             | 12.18                  | 7/8/2014   | CMT-I        | 74.16                                 |
| AGW201-4             | 12.19                  | 7/8/2014   | CMT-I        | 74.15                                 |
| AGW201-5             | 12.17                  | 7/8/2014   | CMT-I        | 74.13                                 |
| AGW201-5<br>AGW201-6 | 12.17                  | 7/8/2014   | CMT-D        | 74.08                                 |
|                      | 12.20                  | ., 5, 2017 | J.V.1. D     | . 1.00                                |

| Well                 | Depth to Water (ft) | Date     | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|----------------------|---------------------|----------|--------------|---------------------------------------|
| AGW201-7             | 12.27               | 7/8/2014 | CMT-D        | 74.07                                 |
| AGW202-1             | 12.00               | 7/8/2014 | CMT-S        | 74.27                                 |
| AGW202-2             | 11.97               | 7/8/2014 | CMT-S        | 74.29                                 |
| AGW202-3             | 11.99               | 7/8/2014 | CMT-I        | 74.28                                 |
| AGW202-4             | 12.04               | 7/8/2014 | CMT-I        | 74.22                                 |
| AGW202-5             | 12.07               | 7/8/2014 | CMT-I        | 74.20                                 |
| AGW202-6             | 12.12               | 7/8/2014 | CMT-D        | 74.17                                 |
| AGW202-7             | 12.10               | 7/8/2014 | CMT-D        | 74.17                                 |
| AGW203-1             | 12.13               | 7/8/2014 | CMT-S        | 74.39                                 |
| AGW203-2             | 12.12               | 7/8/2014 | CMT-S        | 74.41                                 |
| AGW203-3             | 12.12               | 7/8/2014 | CMT-I        | 74.40                                 |
| AGW203-4             | 12.15               | 7/8/2014 | CMT-I        | 74.34                                 |
| AGW203-5             | 12.15               | 7/8/2014 | CMT-I        | 74.37                                 |
| AGW203-6             | 12.22               | 7/8/2014 | CMT-D        | 74.29                                 |
| AGW204               | 11.66               | 7/7/2014 | I            | 75.68                                 |
| AGW205               | 10.69               | 7/7/2014 | I            | 75.33                                 |
| AGW206               | 11.30               | 7/7/2014 | I            | 74.92                                 |
| AGW207-1             | 7.06                | 7/8/2014 | CMT-S        | 69.15                                 |
| AGW207-2             | 7.24                | 7/8/2014 | CMT-S        | 68.97                                 |
| AGW207-3             | 7.20                | 7/8/2014 | CMT-I        | 69.01                                 |
| AGW207-4             | 7.17                | 7/8/2014 | CMT-I        | 69.04                                 |
| AGW207-5             | 7.17                | 7/8/2014 | CMT-I        | 69.04                                 |
| AGW207-7             | 7.07                | 7/8/2014 | CMT-D        | 69.14                                 |
| AGW208-1             | 5.37                | 7/8/2014 | CMT-S        | 70.06                                 |
| AGW208-2             | 5.37                | 7/8/2014 | CMT-S        | 70.04                                 |
| AGW208-3             | 5.36                | 7/8/2014 | CMT-I        | 70.07                                 |
| AGW208-4             | 5.35                | 7/8/2014 | CMT-I        | 70.07                                 |
| AGW208-5             | 5.09                | 7/8/2014 | CMT-I        | 70.34                                 |
| AGW208-6             | 5.10                | 7/8/2014 | CMT-D        | 70.32                                 |
| AGW208-7             | 5.11                | 7/8/2014 | CMT-D        | 70.32                                 |
| AGW209-1             | 7.92                | 7/8/2014 | CMT-S        | 70.56                                 |
| AGW209-2             | 7.92                | 7/8/2014 | CMT-S        | 70.56                                 |
| AGW209-3             | 7.89                | 7/8/2014 | CMT-I        | 70.59                                 |
| AGW209-4             | 7.90                | 7/8/2014 | CMT-I        | 70.58                                 |
| AGW209-5             | 7.89                | 7/8/2014 | CMT-I        | 70.59                                 |
| AGW209-6             | 7.90                | 7/8/2014 | CMT-D        | 70.58                                 |
| AGW209-7             | 7.91                | 7/8/2014 | CMT-D        | 70.57                                 |
| AGW210-1             | 9.21                | 7/8/2014 | CMT-S        | 71.01                                 |
| AGW210-1             | 9.21                | 7/8/2014 | CMT-S        | 71.00                                 |
| AGW210-3             | 9.18                | 7/8/2014 | CMT-I        | 71.04                                 |
| AGW210-4             | 9.20                | 7/8/2014 | CMT-I        | 71.02                                 |
| AGW210-5             | 9.19                | 7/8/2014 | CMT-I        | 71.03                                 |
| AGW210-6             | 9.23                | 7/8/2014 | CMT-D        | 70.98                                 |
| AGW210-7             | 9.54                | 7/8/2014 | CMT-D        | 70.68                                 |
| AGW210-7<br>AGW211-1 | 10.80               | 7/8/2014 | CMT-S        | 71.28                                 |
| AGW211-1             | 10.71               | 7/8/2014 | CMT-S        | 71.35                                 |
| AGW211-2<br>AGW211-3 | 10.71               | 7/8/2014 | CMT-I        | 71.36                                 |
| AGW211-4             | 10.72               | 7/8/2014 | CMT-I        | 71.27                                 |
| AGW211-4<br>AGW211-5 | 10.82               | 7/8/2014 | CMT-I        | 71.24                                 |
| AGW211-6             | 10.85               | 7/8/2014 | CMT-D        | 71.24                                 |
| AGW211-7             | 10.85               | 7/8/2014 | CMT-D        | 71.23                                 |
| AGW211-7<br>AGW212-1 | 11.22               | 7/8/2014 | CMT-S        | 71.72                                 |
| AGW212-1             | 11.09               | 7/8/2014 | CMT-S        | 71.72                                 |
|                      |                     |          |              |                                       |
| AGW212-3             | 11.40               | 7/8/2014 | CMT-I        | 71.54                                 |
| AGW212-5             | 11.38               | 7/8/2014 | CMT-I        | 71.56                                 |
| AGW212-6             | 11.42               | 7/8/2014 | CMT-D        | 71.52                                 |
| AGW212-7             | 11.42               | 7/8/2014 | CMT-D        | 71.52                                 |
| AGW213               | 3.04                | 7/8/2014 | D            | 66.93                                 |
| AGW214*              | 2.94                | 7/8/2014 | !            | 66.04                                 |
| AGW215*              | 1.93                | 7/8/2014 | I            | 62.81                                 |

| Well     | Depth to Water (ft) | Date     | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|----------|---------------------|----------|--------------|---------------------------------------|
| AGW216*  | 1.81                | 7/8/2014 | 1            | 65.79                                 |
| AGW217*  | 2.83                | 7/8/2014 | ı            | 64.07                                 |
| AGW218*  | 1.01                | 7/8/2014 | i            | 63.87                                 |
| AGW219   | 0.76                | 7/8/2014 | ı            | 60.15                                 |
| AGW220*  | 1.08                | 7/8/2014 | i            | 61.64                                 |
| AGW221*  | 1.47                | 7/8/2014 | i            | 63.06                                 |
| AGW222   | 12.50               | 7/7/2014 | i            | 74.75                                 |
| AGW223   | 12.14               | 7/9/2014 | D            | 74.56                                 |
| AGW224   | 2.77                | 7/8/2014 | WT           | 69.64                                 |
| AGW225   | 2.05                | 7/8/2014 | WT           | 69.51                                 |
| AGW226   | 0.36                | 7/8/2014 | WT           | 68.96                                 |
| AGW227   | 3.30                | 7/8/2014 | 1            | 67.76                                 |
| AGW228   | 3.73                | 7/8/2014 | S            | 67.63                                 |
| AGW229   | 8.27                | 7/8/2014 | WT           | 72.20                                 |
| AGW230   | 7.84                | 7/8/2014 | D            | 70.16                                 |
| AGW231   | 5.06                | 7/8/2014 | S            | 68.12                                 |
| AGW232   | 9.70                | 7/8/2014 | S            | 68.26                                 |
| AGW233   | 2.92                | 7/8/2014 | D            | 68.64                                 |
| AGW234   | 2.09                | 7/8/2014 | D            | 67.69                                 |
| AGW235-1 | 3.08                | 7/8/2014 | CMT-S        | 66.86                                 |
| AGW235-2 | 3.23                | 7/8/2014 | CMT-S        | 66.71                                 |
| AGW235-3 | 2.46                | 7/8/2014 | CMT-S        | 67.48                                 |
| AGW235-4 | 2.47                | 7/8/2014 | CMT-I        | 67.48                                 |
| AGW235-5 | 2.47                | 7/8/2014 | CMT-I        | 67.48                                 |
| AGW235-6 | 2.50                | 7/8/2014 | CMT-I        | 67.45                                 |
| AGW235-7 | 2.53                | 7/8/2014 | CMT-D        | 67.42                                 |
| AGW236   | 6.70                | 7/8/2014 | S            | 68.15                                 |
| AGW237   | 4.46                | 7/8/2014 | D            | 66.03                                 |
| AGW238   | 5.19                | 7/8/2014 | i            | 65.07                                 |
| AGW239   | 5.83                | 7/8/2014 | S            | 64.95                                 |
| AGW240-1 | 3.17                | 7/8/2014 | CMT-WT       | 69.32                                 |
| AGW240-3 | 2.58                | 7/8/2014 | CMT-S        | 69.90                                 |
| AGW240-5 | 2.58                | 7/8/2014 | CMT-S        | 69.92                                 |
| AGW241-1 | 3.39                | 7/8/2014 | CMT-WT       | 69.89                                 |
| AGW241-3 | 3.01                | 7/8/2014 | CMT-S        | 70.27                                 |
| AGW241-5 | 3.01                | 7/8/2014 | CMT-S        | 70.26                                 |
| AGW242-1 | 1.66                | 7/8/2014 | CMT-WT       | 68.18                                 |
| AGW242-2 | 1.66                | 7/8/2014 | CMT-S        | 68.18                                 |
| AGW242-3 | 1.66                | 7/8/2014 | CMT-S        | 68.18                                 |
| AGW242-4 | 1.5                 | 7/8/2014 | CMT-I        | 68.34                                 |
| AGW242-5 | 1.54                | 7/8/2014 | CMT-I        | 68.30                                 |
| AGW242-6 | 1.49                | 7/8/2014 | CMT-D        | 68.35                                 |
| AGW243-1 | 3.99                | 7/8/2014 | CMT-WT       | 66.45                                 |
| AGW243-3 | 3.67                | 7/8/2014 | CMT-S        | 66.76                                 |
| AGW243-5 | 2.91                | 7/8/2014 | CMT-I        | 67.52                                 |
| AGW244   | 3.03                | 7/8/2014 | WT           | 69.01                                 |
| AGW245   | 2.35                | 7/8/2014 | WT           | 67.86                                 |
| AGW246   | 1.93                | 7/8/2014 | WT           | 68.48                                 |
| AGW247-1 | 2.52                | 7/8/2014 | CMT-WT       | 69.03                                 |
| AGW247-3 | 2.5                 | 7/8/2014 | CMT-S        | 69.04                                 |
| AGW247-5 | 2.49                | 7/8/2014 | CMT-S        | 69.05                                 |
| AGW248-1 | 2.58                | 7/8/2014 | CMT-WT       | 69.25                                 |
| AGW248-3 | 2.09                | 7/8/2014 | CMT-S        | 69.74                                 |
| AGW248-5 | 2.08                | 7/8/2014 | CMT-S        | 69.74                                 |
| AGW249-1 | 5.21                | 7/8/2014 | CMT-WT       | 68.20                                 |
| AGW249-3 | 3.96                | 7/8/2014 | CMT-S        | 69.44                                 |
| AGW249-5 | 3.97                | 7/8/2014 | CMT-S        | 69.42                                 |
| AGW250-1 | 4.32                | 7/8/2014 | CMT-WT       | 74.13                                 |
| AGW250-2 | 4.16                | 7/8/2014 | CMT-S        | 74.28                                 |
| AGW250-3 | 4.18                | 7/8/2014 | CMT-I        | 74.26                                 |
|          |                     |          |              |                                       |

| Well     | Depth to Water (ft) | Date     | Aquifer Zone | Groundwater<br>Elevation<br>(ft. MSL) |
|----------|---------------------|----------|--------------|---------------------------------------|
| AGW250-4 | 4.38                | 7/8/2014 | CMT-I        | 74.07                                 |
| AGW250-5 | 4.47                | 7/8/2014 | CMT-I        | 73.98                                 |
| AGW250-6 | 4.45                | 7/8/2014 | CMT-D        | 74.01                                 |
| AGW250-7 | 4.44                | 7/8/2014 | CMT-D        | 74.01                                 |
| AGW251-1 | 4.77                | 7/8/2014 | CMT-WT       | 71.32                                 |
| AGW251-2 | 4.76                | 7/8/2014 | CMT-S        | 71.32                                 |
| AGW251-3 | 4.65                | 7/8/2014 | CMT-I        | 71.42                                 |
| AGW251-4 | 4.86                | 7/8/2014 | CMT-I        | 71.21                                 |
| AGW251-5 | 3.83                | 7/8/2014 | CMT-I        | 72.25                                 |
| AGW251-6 | 3.89                | 7/8/2014 | CMT-D        | 72.19                                 |
| AGW251-7 | 3.87                | 7/8/2014 | CMT-D        | 72.20                                 |

<sup>\*</sup> Well exhibited artesian conditions

D = Deep Zone

ft = foot

I = Intermediate Zone

MSL = Mean Sea Level (National Geodetic Vertical Datum of 1929)

S = Shallow Zone

Note:

Groundwater elevations for multi-level wells and wells exhibiting artesian conditions are only accurate to the 1/10th of a ft.

<sup>-- =</sup> Was not able to access well

#### TABLE 4 VERTICAL HYDRAULIC GRADIENT WATER TABLE TO SHALLOW ZONE JULY 2014 BOEING AUBURN ALGONA, WASHINGTON

|              |                     | -           | Ground          |           | Center of |             | Screen     |                |               |
|--------------|---------------------|-------------|-----------------|-----------|-----------|-------------|------------|----------------|---------------|
|              |                     | Groundwater | Surface         | Center of | Screen    | Water Level | Elevation  |                |               |
|              |                     | Elevation   | Elevation1 (ft, | Screen    | Elevation | Difference  | Difference |                |               |
| Well Cluster | Aquifer Zone        | (ft, MSL)   | MSL)            | (BGS)     | (ft, MSL) | (ft)        | (ft)       | Vertical Hydra | ulic Gradient |
| AGW240-1     | Water Table (5-7.5) | 69.32       | 72.77           | 6.25      | 66.52     | -0.60       | 22.00      | -0.0273        | Upward        |
| AGW240-5     | 28-28.5             | 69.92       | 72.77           | 28.25     | 44.52     |             |            |                |               |
| AGW241-1     | Water Table (4-6.5) | 69.89       | 73.49           | 5.25      | 68.24     | -0.37       | 22.00      | -0.0168        | Upward        |
| AGW241-5     | 27-27.5             | 70.26       | 73.49           | 27.25     | 46.24     |             |            |                |               |
| AGW242-1     | Water Table (3.5-6) | 68.18       | 70.09           | 4.75      | 65.34     | 0.00        | 22.00      | 0.0000         | Neutral       |
| AGW242-3     | 26.5-27             | 68.18       | 70.09           | 26.75     | 43.34     |             |            |                |               |
| AGW243-1     | Water Table (4-6.5) | 66.45       | 70.67           | 5.25      | 65.42     | -0.31       | 20.00      | -0.0155        | Upward        |
| AGW243-3     | 25-25.5             | 66.76       | 70.67           | 25.25     | 45.42     |             |            |                |               |
| AGW247-1     | Water Table (5-7.5) | 69.03       | 71.82           | 6.25      | 65.57     | -0.02       | 20.50      | -0.0010        | Upward        |
| AGW247-5     | 26.5-27             | 69.05       | 71.82           | 26.75     | 45.07     |             |            |                |               |
| AGW248-1     | Water Table (5-7.5) | 69.25       | 72.02           | 6.25      | 65.77     | -0.49       | 20.00      | -0.0245        | Upward        |
| AGW248-5     | 26-26.5             | 69.74       | 72.02           | 26.25     | 45.77     |             |            |                |               |
| AGW249-1     | Water Table (5-7.5) | 68.20       | 73.72           | 6.25      | 67.47     | -1.22       | 23.00      | -0.0530        | Upward        |
| AGW249-5     | 29-29.5             | 69.42       | 73.72           | 29.25     | 44.47     |             |            |                |               |
| AGW250-1     | Water Table (6.5-9) | 74.13       | 78.79           | 7.75      | 71.04     | -0.15       | 18.50      | -0.0081        | Upward        |
| AGW250-2     | 26-26.5             | 74.28       | 78.79           | 26.25     | 52.54     |             |            |                |               |
| AGW251-1     | Water Table (6-8.5) | 71.32       | 76.46           | 7.25      | 69.21     | 0.00        | 18.00      | 0.0000         | Neutral       |
| AGW251-2     | 25-25.5             | 71.32       | 76.46           | 25.25     | 51.21     |             |            |                |               |

<sup>&</sup>lt;sup>1</sup> Well rim elevation

Notes:

Groundwater level elevations collected July 2014.

#### TABLE 5 VERTICAL HYDRAULIC GRADIENT SHALLOW ZONE TO INTERMEDIATE ZONE JULY 2014 BOEING AUBURN ALGONA, WASHINGTON

| Well Cluster | Aquifer Zone | Groundwater<br>Elevation<br>(ft, MSL) | Ground<br>Surface<br>Elevation <sup>1</sup> (ft,<br>MSL) | Center of<br>Screen<br>(BGS) | Center of<br>Screen<br>Elevation<br>(ft, MSL) | Water Level<br>Difference<br>(ft) | Screen<br>Elevation<br>Difference<br>(ft) |         | al Hydraulic<br>radient |
|--------------|--------------|---------------------------------------|----------------------------------------------------------|------------------------------|-----------------------------------------------|-----------------------------------|-------------------------------------------|---------|-------------------------|
| AGW242-3     | 26.5-27      | 68.18                                 | 70.09                                                    | 25.25                        | 44.84                                         | -0.12                             | 25.00                                     | -0.0048 | Upward                  |
| AGW242-5     | 50-50.5      | 68.30                                 | 70.09                                                    | 50.25                        | 19.84                                         |                                   |                                           |         |                         |
| AGW243-3     | 25-25.5      | 66.76                                 | 70.67                                                    | 25.25                        | 45.42                                         | -0.76                             | 25.00                                     | -0.0304 | Upward                  |
| AGW243-5     | 50-50.5      | 67.52                                 | 70.67                                                    | 50.25                        | 20.42                                         |                                   |                                           |         |                         |
| AGW250-2     | 26-26.5      | 74.28                                 | 78.79                                                    | 26.25                        | 52.54                                         | 0.21                              | 25.00                                     | 0.0084  | Downward                |
| AGW250-4     | 51-51.5      | 74.07                                 | 78.79                                                    | 51.25                        | 27.54                                         |                                   |                                           |         |                         |
| AGW251-2     | 25-25.5      | 71.32                                 | 76.46                                                    | 25.25                        | 51.21                                         | 0.11                              | 27.00                                     | 0.0041  | Downward                |
| AGW251-4     | 52-52.5      | 71.21                                 | 76.46                                                    | 52.25                        | 24.21                                         |                                   |                                           |         |                         |

<sup>&</sup>lt;sup>1</sup> Well rim elevation

Notes:

Groundwater level elevations collected July 2014.

|                                       | 1                      | D           | up of AGW240-3-18 |                       |             |
|---------------------------------------|------------------------|-------------|-------------------|-----------------------|-------------|
|                                       | AGW240-1-7             | AGW240-3-18 | AGW900            | AGW240-5-28           | AGW241-1-6  |
|                                       | Water Table            | Shallow     | Shallow           | Shallow               | Water Table |
|                                       | 1488489                | 1488489     | 1488489           | 1488489               | 1488489     |
|                                       | 7531113                | 7531114     | 7531115           | 7531116               | 7531121     |
|                                       | 7/11/2014              | 7/11/2014   | 7/11/2014         | 7/11/2014             | 7/11/2014   |
| VOLATILES (μg/L)                      |                        |             |                   |                       |             |
| Method SW8260C                        |                        |             |                   |                       |             |
| Acetone                               | 5.0 U                  | 5.0 U       | 5.0 U             | 5.0 U                 | 13          |
| Benzene                               | 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       |
| Bromoform                             | 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       |
| 2-Butanone                            | 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       |
| Carbon Tetrachloride                  | 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       |
| Chloroethane                          | 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                 | 0.3         |
| Chloromethane                         | 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       |
| 1,1-Dichloroethane                    | 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       |
| 1,1-Dichloroethene                    | 0.2 U                  | 0.2 U       | 0.2 U             | 0.2 U                 | 0.2 U       |
| cis-1,2-Dichloroethene                | 0.2 U                  | 0.7         | 0.7               | 6.9                   | 0.2 U       |
| trans-1,2-Dichloroethene              | 0.3                    | 0.3         | 0.3               | 0.8                   | 0.2 U       |
| 1,2-Dichloropropane                   | 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       |
| trans-1,3-Dichloropropene             | 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       |
| 2-Hexanone                            | 5.0 U                  | 5.0 U       | 5.0 U             | 5.0 U                 | 5.0 U       |
| 4-Methyl-2-Pentanone (MIBK)           | 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       |
| Styrene                               | 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       |
| Tetrachloroethene                     | 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                 | 0.7         |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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       |
| 1,1,2-Trichloroethane                 | 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       |
| Trichlorofluoromethane                | 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       |
| Vinyl Chloride                        | 0.7                    | 3.7         | 3.7               | 4.1                   | 0.2 U       |
| m,p-Xylene                            | 0.5 U                  | 0.5 U       | 0.5 U             | 0.5 U                 | 1.3         |
| o-Xylene                              | 0.5 U                  | 0.5 U       | 0.5 U             | 0.5 U                 | 0.8         |
| VOLATILES (µg/L)                      |                        |             |                   |                       |             |
| Method 8260C SIM                      |                        |             |                   |                       |             |
| Tetrachloroethene                     | 0.020 U                | 0.020 U     | 0.020 U           | 0.020 U               | 0.020 U     |
| Vinyl Chloride                        | 0.020 0<br><b>0.74</b> | 0.020 U     | 3.6               | 0.020 0<br><b>3.0</b> | 0.020 U     |
| viriyi Criionae                       | I 0.74                 | 3.0         | 3.0               | 3.0                   | 0.020 0     |

|                                       | Dup of AGW241-1-6                |                                   |                                   |                                      |                                          |  |  |  |
|---------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|------------------------------------------|--|--|--|
|                                       | AGW901<br>Water Table<br>1488489 | AGW241-3-17<br>Shallow<br>1488489 | AGW241-5-27<br>Shallow<br>1488489 | AGW242-1-6<br>Water Table<br>1489361 | AGW242-1-6 (a)<br>Water Table<br>1490965 |  |  |  |
|                                       | 7531120                          | 7531122                           | 7531123                           | 7534746                              | 7542013                                  |  |  |  |
|                                       | 7/11/2014                        | 7/11/2014                         | 7/11/2014                         | 7/15/2014                            | 7/15/2014                                |  |  |  |
| VOLATILES (µg/L)                      |                                  |                                   |                                   |                                      |                                          |  |  |  |
| Method SW8260C                        |                                  |                                   |                                   |                                      |                                          |  |  |  |
| Acetone                               | 9.0                              | 5.0 U                             | 5.0 U                             | 50 U                                 | 12                                       |  |  |  |
| Benzene                               | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Bromodichloromethane                  | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Bromoform                             | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Bromomethane                          | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 2-Butanone                            | 5.0 U                            | 5.0 U                             | 5.0 U                             | 50 U                                 | 5.0 U                                    |  |  |  |
| Carbon Disulfide                      | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Carbon Tetrachloride                  | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Chlorobenzene                         | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Chloroethane                          | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Chloroform                            | 0.3                              | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Chloromethane                         | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Dibromochloromethane                  | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 1.1-Dichloroethane                    | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 1.2-Dichloroethane                    | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| 1,1-Dichloroethene                    | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| cis-1,2-Dichloroethene                | 0.2 U                            | 0.5                               | 0.6                               | 2.0 U                                | 0.2 U                                    |  |  |  |
| trans-1,2-Dichloroethene              | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| 1,2-Dichloropropane                   | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| cis-1,3-Dichloropropene               | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| trans-1,3-Dichloropropene             | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Ethylbenzene                          | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 2-Hexanone                            | 5.0 U                            | 5.0 U                             | 5.0 U                             | 50 U                                 | 5.0 U                                    |  |  |  |
| 4-Methyl-2-Pentanone (MIBK)           | 5.0 U                            | 5.0 U                             | 5.0 U                             | 50 U                                 | 5.0 U                                    |  |  |  |
| Methylene Chloride                    | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Styrene                               | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 1,1,2,2-Tetrachloroethane             | 0.5 U                            | 0.5 U                             | 0.5 U                             | 2.0 U                                | 0.5 U                                    |  |  |  |
| Tetrachloroethene                     | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Toluene                               | 0.2 0<br><b>0.7</b>              | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 0                                    |  |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.7<br>0.5 U                     | 0.2 U                             | 0.2 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 1,1,1-Trichloroethane                 | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| 1,1,2-Trichloroethane                 | 0.3 U                            | 0.5 U                             | 0.2 U                             | 2.0 U                                | 0.5 U                                    |  |  |  |
| Trichloroethene                       | 0.2 U                            | 0.2 U                             | 0.2 U                             | 2.0 U                                | 0.2 U                                    |  |  |  |
| Trichlorofluoromethane                | 0.5 U                            | 0.2 U<br>0.5 U                    | 0.2 U<br>0.5 U                    | 5.0 U                                | 0.2 U                                    |  |  |  |
| Vinyl Acetate                         | 0.5 U                            | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| Vinyl Acetate Vinyl Chloride          | 0.5 U                            | 0.5 U                             | 0.5 U<br>0.2 U                    | 2.0 U                                | 0.5 U                                    |  |  |  |
| m,p-Xylene                            | 0.2 0<br><b>1.2</b>              | 0.2 U                             | 0.2 U<br>0.5 U                    | 5.0 U                                | 0.2 U                                    |  |  |  |
|                                       | 0.7                              | 0.5 U                             | 0.5 U                             | 5.0 U                                | 0.5 U                                    |  |  |  |
| o-Xylene                              | U. <i>1</i>                      | U.5 U                             | U.5 U                             | 5.0 0                                | U.5 U                                    |  |  |  |
| VOLATILES (μg/L)                      |                                  |                                   |                                   |                                      |                                          |  |  |  |
| Method 8260C SIM                      |                                  |                                   |                                   |                                      |                                          |  |  |  |
| Tetrachloroethene                     | 0.020 U                          | 0.020 U                           | 0.020 U                           | 0.10 U                               |                                          |  |  |  |
| Vinyl Chloride                        | 0.020 U                          | 0.020 0                           | 0.032                             | 0.10 0                               |                                          |  |  |  |
| Villy) Official                       | 0.020 0                          | 0.022                             | 0.032                             | I 0.23                               |                                          |  |  |  |

|                                       | AGW242-2-16<br>Shallow<br>1489361<br>7534747<br>7/15/2014 | AGW242-3-27<br>Shallow<br>1489361<br>7534748<br>7/15/2014 | AGW242-4-40<br>Intermediate<br>1489361<br>7534749<br>7/15/2014 | AGW242-5-50<br>Intermediate<br>1489361<br>7534750<br>7/15/2014 | AGW242-6-60<br>Intermediate<br>1489361<br>7534751<br>7/15/2014 |
|---------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| VOLATILES (v.e./L)                    | .,,                                                       | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                   | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                        | .,                                                             | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                        |
| VOLATILES (μg/L)<br>Method SW8260C    |                                                           |                                                           |                                                                |                                                                |                                                                |
| Acetone                               | 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                                                          |
| Bromodichloromethane                  | 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                                                          |
| Bromomethane                          | 0.5 U                                                     | 0.5 U                                                     | 0.5 U                                                          | 0.5 U                                                          | 0.5 U                                                          |
| 2-Butanone                            | 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                                                          |
| Carbon Tetrachloride                  | 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                                                          |
| Chloroethane                          | 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                                                          | 0.4                                                            |
| Chloromethane                         | 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                                                          |
| 1,1-Dichloroethane                    | 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                                                          |
| 1,1-Dichloroethene                    | 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 U                                                          | 0.2 U                                                          |
| trans-1,2-Dichloroethene              | 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                                                          |
| cis-1,3-Dichloropropene               | 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                                                          |
| Ethylbenzene                          | 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                                                          |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                          |
| Styrene                               | 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                                                          |
| Tetrachloroethene                     | 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                                                          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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                                                          |
| 1,1,2-Trichloroethane                 | 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                                                          |
| Trichlorofluoromethane                | 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                                                          |
| Vinyl Chloride                        | 0.2 U                                                     | 0.2 U                                                     | 0.2 U                                                          | 0.2 U                                                          | 0.2 U                                                          |
| m,p-Xylene                            | 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                                                          |
| VOLATILES (µg/L)                      |                                                           |                                                           |                                                                |                                                                |                                                                |
| Method 8260C SIM                      |                                                           |                                                           |                                                                |                                                                |                                                                |
| Tetrachloroethene                     | 0.020 U                                                   | 0.020 U                                                   | 0.020 U                                                        | 0.020 U                                                        | 0.020 U                                                        |
| Vinyl Chloride                        | 0.020 U                                                   | 0.020 U                                                   | 0.020 U                                                        | 0.020 U                                                        | 0.020 U                                                        |

|                                       | AGW243-1-6<br>Water Table<br>1489361<br>7534738<br>7/14/2014 | AGW243-1-6 (a)<br>Water Table<br>1490965<br>7542010<br>7/14/2014 | AGW243-3-25<br>Shallow<br>1489361<br>7534739<br>7/14/2014 | AGW243-5-50<br>Intermediate<br>1489361<br>7534740<br>7/14/2014 | AGW243-5-50 (a)<br>Intermediate<br>1490965<br>7542011<br>7/14/2014 |
|---------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                              |                                                                  |                                                           |                                                                |                                                                    |
| Method SW8260C                        |                                                              |                                                                  |                                                           |                                                                |                                                                    |
| Acetone                               | 33                                                           | 27                                                               | 6.2                                                       | 50 U                                                           | 5.0 U                                                              |
| Benzene                               | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Bromodichloromethane                  | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Bromoform                             | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Bromomethane                          | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 2-Butanone                            | 25 U                                                         | 6.3                                                              | 5.0 U                                                     | 50 U                                                           | 5.0 U                                                              |
| Carbon Disulfide                      | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Carbon Tetrachloride                  | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Chlorobenzene                         | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Chloroethane                          | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Chloroform                            | 1.6                                                          | 1.7                                                              | 0.8                                                       | 2.0 U                                                          | 0.4                                                                |
| Chloromethane                         | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Dibromochloromethane                  | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 1,1-Dichloroethane                    | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 1,2-Dichloroethane                    | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| 1,1-Dichloroethene                    | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| cis-1,2-Dichloroethene                | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| trans-1,2-Dichloroethene              | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| 1,2-Dichloropropane                   | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| cis-1,3-Dichloropropene               | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| trans-1,3-Dichloropropene             | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Ethylbenzene                          | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 2-Hexanone                            | 25 U                                                         | 5.0 U                                                            | 5.0 U                                                     | 50 U                                                           | 5.0 U                                                              |
| 4-Methyl-2-Pentanone (MIBK)           | 25 U                                                         | 5.0 U                                                            | 5.0 U                                                     | 50 U                                                           | 5.0 U                                                              |
| Methylene Chloride                    | 2.5 U                                                        | 0.7                                                              | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Styrene                               | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 1,1,2,2-Tetrachloroethane             | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Tetrachloroethene                     | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Toluene                               | 1.0 U                                                        | 0.5                                                              | 0.4                                                       | 2.0 U                                                          | 0.9                                                                |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 1,1,1-Trichloroethane                 | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| 1,1,2-Trichloroethane                 | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Trichloroethene                       | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| Trichlorofluoromethane                | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Vinyl Acetate                         | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| Vinyl Chloride                        | 1.0 U                                                        | 0.2 U                                                            | 0.2 U                                                     | 2.0 U                                                          | 0.2 U                                                              |
| m,p-Xylene                            | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| o-Xylene                              | 2.5 U                                                        | 0.5 U                                                            | 0.5 U                                                     | 5.0 U                                                          | 0.5 U                                                              |
| VOLATILES (μg/L)                      |                                                              |                                                                  |                                                           |                                                                |                                                                    |
| Method 8260C SIM                      |                                                              |                                                                  |                                                           |                                                                |                                                                    |
| Tetrachloroethene                     | 0.10 U                                                       |                                                                  | 0.020 U                                                   | 0.020 U                                                        |                                                                    |
| Vinyl Chloride                        | 0.26                                                         |                                                                  | 0.020 U                                                   | 0.020 U                                                        |                                                                    |

|                                       | AGW244<br>Water Table<br>1488489<br>7531124<br>7/11/2014 | AGW244 (a)<br>Water Table<br>1490965<br>7542014<br>7/11/2014 | AGW245<br>Water Table<br>1489361<br>7534745<br>7/14/2014 | AGW246<br>Water Table<br>1489361<br>7534744<br>7/14/2014 | AGW246 (a)<br>Water Table<br>1490965<br>7542012<br>7/14/2014 |
|---------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                          |                                                              |                                                          |                                                          |                                                              |
| Method SW8260C                        |                                                          |                                                              |                                                          |                                                          |                                                              |
| Acetone                               | 25 U                                                     | 5.0 U                                                        | 5.0 U                                                    | 50                                                       | 5.0 U                                                        |
| Benzene                               | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| Bromodichloromethane                  | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Bromoform                             | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Bromomethane                          | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 2-Butanone                            | 25 U                                                     | 5.0 U                                                        | 5.0 U                                                    | 50 U                                                     | 5.0 U                                                        |
| Carbon Disulfide Carbon Tetrachloride | 2.5 U<br>1.0 U                                           | 0.5 U<br>0.2 U                                               | 0.5 U<br>0.2 U                                           | 5.0 U<br>2.0 U                                           | 0.5 U<br>0.2 U                                               |
| Chlorobenzene                         | 1.0 U<br>2.5 U                                           | 0.2 U<br>0.5 U                                               | 0.2 U<br>0.5 U                                           | 2.0 U                                                    | 0.2 U<br>0.5 U                                               |
| Chloroethane                          | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Chloroform                            | 2.5 U<br>1.0 U                                           | 0.5 U                                                        | 0.5 U                                                    | 2.0 U                                                    | 0.5 U                                                        |
| Chloromethane                         | 2.5 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Dibromochloromethane                  | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 1,1-Dichloroethane                    | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 1,2-Dichloroethane                    | 1.0 U                                                    | 0.2 U                                                        | 0.2                                                      | 2.0 U                                                    | 0.2 U                                                        |
| 1,1-Dichloroethene                    | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| cis-1,2-Dichloroethene                | 1.0 U                                                    | 0.2 U                                                        | 0.7                                                      | 2.0 U                                                    | 0.2 U                                                        |
| trans-1,2-Dichloroethene              | 1.0 U                                                    | 0.2 U                                                        | 0.3                                                      | 2.0 U                                                    | 0.2 U                                                        |
| 1,2-Dichloropropane                   | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| cis-1,3-Dichloropropene               | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| trans-1,3-Dichloropropene             | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| Ethylbenzene                          | 3.1                                                      | 3.7                                                          | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 2-Hexanone                            | 25 U                                                     | 5.0 U                                                        | 5.0 U                                                    | 50 U                                                     | 5.0 U                                                        |
| 4-Methyl-2-Pentanone (MIBK)           | 25 U                                                     | 5.0 U                                                        | 5.0 U                                                    | 50 U                                                     | 5.0 U                                                        |
| Methylene Chloride                    | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Styrene                               | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 1,1,2,2-Tetrachloroethane             | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| Tetrachloroethene                     | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| Toluene                               | 1.0 U                                                    | 0.6                                                          | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 1,1,1-Trichloroethane                 | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| 1,1,2-Trichloroethane                 | 1.0 U                                                    | 0.2 U                                                        | 0.2 U                                                    | 2.0 U                                                    | 0.2 U                                                        |
| Trichloroethene                       | 1.0 U                                                    | 0.2 U                                                        | 0.5                                                      | 2.0 U                                                    | 0.2 U                                                        |
| Trichlorofluoromethane                | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Vinyl Acetate                         | 2.5 U                                                    | 0.5 U                                                        | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| Vinyl Chloride                        | 1.0 U                                                    | 0.2 U                                                        | 1.5                                                      | 2.0 U                                                    | 0.2 U                                                        |
| m,p-Xylene                            | 17                                                       | 20                                                           | 0.5 U                                                    | 5.0 U                                                    | 0.5                                                          |
| o-Xylene                              | 8.4                                                      | 10                                                           | 0.5 U                                                    | 5.0 U                                                    | 0.5 U                                                        |
| VOLATILES (μg/L)                      |                                                          |                                                              |                                                          |                                                          |                                                              |
| Method 8260C SIM                      |                                                          |                                                              |                                                          |                                                          |                                                              |
| Tetrachloroethene                     | 0.10 U                                                   |                                                              | 0.020 U                                                  | 0.10 U                                                   |                                                              |
| Vinyl Chloride                        | 0.14                                                     |                                                              | 1.4                                                      | 0.18                                                     |                                                              |
| Viriyi Officiae                       | I 0.14                                                   |                                                              | 1.4                                                      | 0.10                                                     |                                                              |

|                                        | AGW247-1-6<br>Water Table<br>1489361<br>7534741<br>7/14/2014 | AGW247-3-16<br>Shallow<br>1489361<br>7534742<br>7/14/2014 | AGW247-5-27<br>Shallow<br>1489361<br>7534743<br>7/14/2014 | AGW248-1-5<br>Water Table<br>1488981<br>7532890<br>7/14/2014 | AGW248-1-5 (a)<br>Water Table<br>1490965<br>7542009<br>7/14/2014 |
|----------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| VOLATILES (µg/L)                       |                                                              |                                                           |                                                           |                                                              |                                                                  |
| Method SW8260C<br>Acetone              | 5.0 U                                                        | 5.0 U                                                     | 11                                                        | 27                                                           | 13                                                               |
| Benzene                                | 0.2 U                                                        | 5.0 U<br>0.2 U                                            | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Bromodichloromethane                   | 0.2 U<br>0.5 U                                               | 0.2 U<br>0.5 U                                            | 0.2 U<br>0.5 U                                            | 2.5 U                                                        | 0.2 U<br>0.5 U                                                   |
| Bromoform                              | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Bromomethane                           | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 2-Butanone                             | 5.0 U                                                        | 5.0 U                                                     | 5.0 U                                                     | 2.5 U                                                        | 7.1                                                              |
| Carbon Disulfide                       | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Carbon Distillide Carbon Tetrachloride | 0.5 U<br>0.2 U                                               | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Chlorobenzene                          | 0.2 U                                                        | 0.2 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Chloroethane                           | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Chloroform                             | 0.5 U                                                        | 0.3                                                       | 0.3                                                       | 1.0 U                                                        | 0.2 U                                                            |
| Chloromethane                          | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Dibromochloromethane                   | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 1,1-Dichloroethane                     | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 1,2-Dichloroethane                     | 0.2                                                          | 0.2                                                       | 0.3                                                       | 1.0 U                                                        | 0.2 U                                                            |
| 1,1-Dichloroethene                     | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| cis-1,2-Dichloroethene                 | 4.9                                                          | 6.3                                                       | 5.5                                                       | 1.0 U                                                        | 0.2 U                                                            |
| trans-1,2-Dichloroethene               | 0.4                                                          | 0.8                                                       | 0.4                                                       | 1.0 U                                                        | 0.2 U                                                            |
| 1,2-Dichloropropane                    | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| cis-1,3-Dichloropropene                | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| trans-1,3-Dichloropropene              | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Ethylbenzene                           | 0.5 U                                                        | 0.5 U                                                     | 0.8                                                       | 2.5 U                                                        | 0.5 U                                                            |
| 2-Hexanone                             | 5.0 U                                                        | 5.0 U                                                     | 5.0 U                                                     | 25 U                                                         | 5.0 U                                                            |
| 4-Methyl-2-Pentanone (MIBK)            | 5.0 U                                                        | 5.0 U                                                     | 5.0 U                                                     | 25 U                                                         | 5.0 U                                                            |
| Methylene Chloride                     | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Styrene                                | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 1,1,2,2-Tetrachloroethane              | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Tetrachloroethene                      | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Toluene                                | 0.2 U                                                        | 0.2 U                                                     | 0.6                                                       | 1.0 U                                                        | 0.4                                                              |
| 1,1,2-Trichloro-1,2,2-trifluoroethane  | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 1,1,1-Trichloroethane                  | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| 1,1,2-Trichloroethane                  | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Trichloroethene                        | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                     | 1.0 U                                                        | 0.2 U                                                            |
| Trichlorofluoromethane                 | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Vinyl Acetate                          | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                     | 2.5 U                                                        | 0.5 U                                                            |
| Vinyl Chloride                         | 0.4                                                          | 1.1                                                       | 0.8                                                       | 1.0 U                                                        | 0.2 U                                                            |
| m,p-Xylene                             | 0.5 U                                                        | 0.5 U                                                     | 4.1                                                       | 2.5 U                                                        | 0.5 U                                                            |
| o-Xylene                               | 0.5 U                                                        | 0.5 U                                                     | 2.3                                                       | 2.5 U                                                        | 0.5 U                                                            |
| VOLATILES (μg/L)                       |                                                              |                                                           |                                                           |                                                              |                                                                  |
| Method 8260C SIM                       |                                                              |                                                           |                                                           |                                                              |                                                                  |
| Tetrachloroethene                      | 0.020 U                                                      | 0.020 U                                                   | 0.020 U                                                   | 0.97                                                         |                                                                  |
| Vinyl Chloride                         | 0.35                                                         | 0.96                                                      | 0.74                                                      | 1.4                                                          |                                                                  |

|                                       | AGW248-3-16<br>Shallow<br>1488981<br>7532891<br>7/14/2014 | AGW248-5-26<br>Shallow<br>1488981<br>7532892<br>7/14/2014 | AGW249-1-8<br>Water Table<br>1488489<br>7531117<br>7/11/2014 | AGW249-3-19<br>Shallow<br>1488489<br>7531118<br>7/11/2014 | AGW249-5-29<br>Shallow<br>1488489<br>7531119<br>7/11/2014 |
|---------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                           |                                                           |                                                              |                                                           |                                                           |
| Method SW8260C                        |                                                           |                                                           |                                                              |                                                           |                                                           |
| Acetone                               | 5.0 U                                                     | 5.0 U                                                     | <b>10</b> J                                                  | 5.0 U                                                     | 5.0 U                                                     |
| Benzene                               | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Bromodichloromethane                  | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Bromoform                             | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Bromomethane                          | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 2-Butanone                            | 5.0 U                                                     | 5.0 U                                                     | 5.0 UJ                                                       | 5.0 U                                                     | 5.0 U                                                     |
| Carbon Disulfide                      | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Carbon Tetrachloride                  | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Chlorobenzene                         | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Chloroethane                          | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Chloroform                            | 0.2 U                                                     | 0.2 U                                                     | <b>0.5</b> J                                                 | 0.5                                                       | 0.2 U                                                     |
| Chloromethane                         | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Dibromochloromethane                  | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 1,1-Dichloroethane                    | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 1,2-Dichloroethane                    | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| 1,1-Dichloroethene                    | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| cis-1,2-Dichloroethene                | 2.0                                                       | 1.9                                                       | <b>0.8</b> J                                                 | 2.3                                                       | 2.2                                                       |
| trans-1,2-Dichloroethene              | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2                                                       |
| 1,2-Dichloropropane                   | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| cis-1,3-Dichloropropene               | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| trans-1,3-Dichloropropene             | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Ethylbenzene                          | 0.5 U                                                     | 0.5 U                                                     | <b>3.8</b> J                                                 | 0.5 U                                                     | 0.5 U                                                     |
| 2-Hexanone                            | 5.0 U                                                     | 5.0 U                                                     | 5.0 UJ                                                       | 5.0 U                                                     | 5.0 U                                                     |
| 4-Methyl-2-Pentanone (MIBK)           | 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 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Styrene                               | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 1,1,2,2-Tetrachloroethane             | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Tetrachloroethene                     | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Toluene                               | 0.2 U                                                     | 0.2 U                                                     | <b>2.1</b> J                                                 | 0.2 U                                                     | 0.2 U                                                     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 1,1,1-Trichloroethane                 | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| 1,1,2-Trichloroethane                 | 0.2 U                                                     | 0.2 U                                                     | 0.2 UJ                                                       | 0.2 U                                                     | 0.2 U                                                     |
| Trichloroethene                       | 5.0                                                       | 4.4                                                       | <b>0.9</b> J                                                 | 6.4                                                       | 6.7                                                       |
| Trichlorofluoromethane                | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Vinyl Acetate                         | 0.5 U                                                     | 0.5 U                                                     | 0.5 UJ                                                       | 0.5 U                                                     | 0.5 U                                                     |
| Vinyl Chloride                        | 0.2                                                       | 0.2                                                       | <b>0.4</b> J                                                 | 0.2 U                                                     | 0.2 U                                                     |
| m,p-Xylene                            | 0.5 U                                                     | 0.5 U                                                     | <b>22</b> J                                                  | 0.5 U                                                     | 0.5 U                                                     |
| o-Xylene                              | 0.5 U                                                     | 0.5 U                                                     | <b>12</b> J                                                  | 0.5 U                                                     | 0.5 U                                                     |
| VOLATILES (µg/L)                      |                                                           |                                                           |                                                              |                                                           |                                                           |
| Method 8260C SIM                      |                                                           |                                                           |                                                              |                                                           |                                                           |
| Tetrachloroethene                     | 0.12                                                      | 0.11                                                      | 0.020 U                                                      | 0.12                                                      | 0.12                                                      |
| Vinyl Chloride                        | 0.18                                                      | 0.18                                                      | 0.28                                                         | 0.13                                                      | 0.13                                                      |

|                                       | AGW250-1-9<br>Water Table<br>1488981<br>7532889<br>7/14/2014 | AGW250-2-26<br>Shallow<br>1488981<br>7532888<br>7/14/2014 | AGW250-3-41<br>Intermediate<br>1488981<br>7532887<br>7/14/2014 | AGW250-4-51<br>Intermediate<br>1488981<br>7532886<br>7/14/2014 | AGW250-5-61<br>Intermediate<br>1488981<br>7532885<br>7/14/2014 |
|---------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                              |                                                           |                                                                |                                                                |                                                                |
| Method SW8260C                        |                                                              |                                                           |                                                                |                                                                |                                                                |
| Acetone                               | 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                                                          |
| Bromodichloromethane                  | 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                                                          |
| Bromomethane                          | 0.5 U                                                        | 0.5 U                                                     | 0.5 U                                                          | 0.5 U                                                          | 0.5 U                                                          |
| 2-Butanone                            | 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                                                          |
| Carbon Tetrachloride                  | 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                                                          |
| Chloroethane                          | 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                                                          |
| Chloromethane                         | 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                                                          |
| 1,1-Dichloroethane                    | 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                                                          |
| 1,1-Dichloroethene                    | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                          | 0.2 U                                                          | 0.2 U                                                          |
| cis-1,2-Dichloroethene                | 0.2 U                                                        | 0.2                                                       | 0.7                                                            | 0.7                                                            | 0.2 U                                                          |
| trans-1,2-Dichloroethene              | 0.2 U                                                        | 0.2 U                                                     | 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                                                          |
| cis-1,3-Dichloropropene               | 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                                                          |
| Ethylbenzene                          | 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                                                          |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                          |
| Styrene                               | 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                                                          |
| Tetrachloroethene                     | 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                                                          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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                                                          |
| 1,1,2-Trichloroethane                 | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                          | 0.2 U                                                          | 0.2 U                                                          |
| Trichloroethene                       | 0.2 U                                                        | 0.2                                                       | 0.4                                                            | 0.2 U                                                          | 0.2 U                                                          |
| Trichlorofluoromethane                | 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                                                          |
| Vinyl Chloride                        | 0.2 U                                                        | 0.2 U                                                     | 0.2 U                                                          | 0.2 U                                                          | 0.2 U                                                          |
| m,p-Xylene                            | 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                                                          |
| VOLATILES (μg/L)                      |                                                              |                                                           |                                                                |                                                                |                                                                |
| Method 8260C SIM                      | 1                                                            |                                                           |                                                                |                                                                |                                                                |
| Tetrachloroethene                     | 0.020 U                                                      | 0.020 U                                                   | 0.020 U                                                        | 0.020 U                                                        | 0.020 U                                                        |
| Vinyl Chloride                        | 0.020 U                                                      | 0.034                                                     | 0.051                                                          | 0.18                                                           | 0.020 U                                                        |

|                                       | AGW250-6-81<br>Deep<br>1488981<br>7532884<br>7/14/2014 | AGW250-7-90<br>Deep<br>1488981<br>7532882<br>7/14/2014 | Dup of AGW250-7-90<br>AGW902<br>Deep<br>1488981<br>7532883<br>7/14/2014 | AGW251-1-8<br>Water Table<br>1488488<br>7531108<br>7/11/2014 | AGW251-2-25<br>Shallow<br>1488488<br>7531109<br>7/11/2014 |
|---------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| VOLATILES (μg/L)                      |                                                        |                                                        |                                                                         |                                                              |                                                           |
| Method SW8260C                        |                                                        |                                                        |                                                                         |                                                              |                                                           |
| Acetone                               | 5.0 U                                                  | 5.0 L                                                  | J 5.0 U                                                                 | 11                                                           | 50 U                                                      |
| Benzene                               | 0.2 U                                                  | 0.2 ไ                                                  | J 0.2 U                                                                 | 0.2                                                          | 2.0 U                                                     |
| Bromodichloromethane                  | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Bromoform                             | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Bromomethane                          | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 2-Butanone                            | 5.0 U                                                  | 5.0 l                                                  | J 5.0 U                                                                 | 5.0 U                                                        | 50 U                                                      |
| Carbon Disulfide                      | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Carbon Tetrachloride                  | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Chlorobenzene                         | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Chloroethane                          | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Chloroform                            | 0.3                                                    | 2.1                                                    | 2.1                                                                     | 2.2                                                          | 2.0 U                                                     |
| Chloromethane                         | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Dibromochloromethane                  | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 1,1-Dichloroethane                    | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 1,2-Dichloroethane                    | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| 1,1-Dichloroethene                    | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| cis-1,2-Dichloroethene                | 0.2 U                                                  | 0.2 ไ                                                  | J 0.2 U                                                                 | 0.5                                                          | 2.0 U                                                     |
| trans-1,2-Dichloroethene              | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| 1,2-Dichloropropane                   | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| cis-1,3-Dichloropropene               | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| trans-1,3-Dichloropropene             | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Ethylbenzene                          | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 2-Hexanone                            | 5.0 U                                                  | 5.0 l                                                  | J 5.0 U                                                                 | 5.0 U                                                        | 50 U                                                      |
| 4-Methyl-2-Pentanone (MIBK)           | 5.0 U                                                  | 5.0 l                                                  | J 5.0 U                                                                 | 5.0 U                                                        | 50 U                                                      |
| Methylene Chloride                    | 0.5 U                                                  | 0.5 ไ                                                  | J 0.5 U                                                                 | 1.6                                                          | 5.0 U                                                     |
| Styrene                               | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 1,1,2,2-Tetrachloroethane             | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Tetrachloroethene                     | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Toluene                               | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 5.9                                                          | 9.9                                                       |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 1,1,1-Trichloroethane                 | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| 1,1,2-Trichloroethane                 | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Trichloroethene                       | 0.2 U                                                  | 0.2 l                                                  | J 0.2 U                                                                 | 0.2 U                                                        | 2.0 U                                                     |
| Trichlorofluoromethane                | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Vinyl Acetate                         | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| Vinyl Chloride                        | 0.2 U                                                  | 0.2 l                                                  |                                                                         | 1.2                                                          | 2.0 U                                                     |
| m,p-Xylene                            | 0.5 U                                                  | 0.5 ป                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| o-Xylene                              | 0.5 U                                                  | 0.5 L                                                  | J 0.5 U                                                                 | 0.5 U                                                        | 5.0 U                                                     |
| VOLATILES (µg/L)<br>Method 8260C SIM  |                                                        |                                                        |                                                                         |                                                              |                                                           |
| Tetrachloroethene                     | 0.020 U                                                | 0.020 ไ                                                |                                                                         | 0.020 U                                                      | 0.020 U                                                   |
| Vinyl Chloride                        | 0.020 U                                                | 0.020 ไ                                                | J 0.020 U                                                               | 0.87                                                         | 0.6                                                       |

|                                       | AGW251-2-25 (a)<br>Shallow<br>1490624<br>7540397<br>7/11/2014 | AGW251-3-40<br>Intermediate<br>1488488<br>7531110<br>7/11/2014 | AGW251-3-40 (a)<br>Intermediate<br>1490624<br>7540398<br>7/11/2014 | AGW251-4-52<br>Intermediate<br>1488488<br>7531111<br>7/11/2014 | AGW251-4-52 (a)<br>Intermediate<br>1490624<br>7540399<br>7/11/2014 |
|---------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
|                                       | 7/11/2014                                                     | 7/11/2014                                                      | 7/11/2014                                                          | 7/11/2014                                                      | 7/11/2014                                                          |
| VOLATILES (µg/L)                      |                                                               |                                                                |                                                                    |                                                                |                                                                    |
| Method SW8260C                        | 40                                                            | 05.11                                                          | 5.0.11                                                             | 05.11                                                          | 5011                                                               |
| Acetone                               | 10                                                            | 25 U                                                           | 5.0 U                                                              | 25 U                                                           | 5.0 U                                                              |
| Benzene                               | 0.6                                                           | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Bromodichloromethane                  | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Bromoform                             | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Bromomethane                          | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 2-Butanone                            | 5.0 U                                                         | 25 U                                                           | 5.0 U                                                              | 25 U                                                           | 5.0 U                                                              |
| Carbon Disulfide                      | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Carbon Tetrachloride                  | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Chlorobenzene                         | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Chloroethane                          | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Chloroform                            | 2.1                                                           | 1.0 U                                                          | 0.6                                                                | 1.0 U                                                          | 0.9                                                                |
| Chloromethane                         | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Dibromochloromethane                  | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 1,1-Dichloroethane                    | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 1,2-Dichloroethane                    | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| 1,1-Dichloroethene                    | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| cis-1,2-Dichloroethene                | 1.7                                                           | 3.7                                                            | 4.7                                                                | 1.0 U                                                          | 0.5                                                                |
| trans-1,2-Dichloroethene              | 0.2 U                                                         | 1.0 U                                                          | 0.2                                                                | 1.0 U                                                          | 0.2 U                                                              |
| 1,2-Dichloropropane                   | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| cis-1,3-Dichloropropene               | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| trans-1,3-Dichloropropene             | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Ethylbenzene                          | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 2-Hexanone                            | 5.0 U                                                         | 25 U                                                           | 5.0 U                                                              | 25 U                                                           | 5.0 U                                                              |
| 4-Methyl-2-Pentanone (MIBK)           | 5.0 U                                                         | 25 U                                                           | 5.0 U                                                              | 25 U                                                           | 5.0 U                                                              |
| Methylene Chloride                    | 1.2                                                           | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Styrene                               | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 1,1,2,2-Tetrachloroethane             | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Tetrachloroethene                     | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Toluene                               | 12                                                            | 2.8                                                            | 3.2                                                                | 1.9                                                            | 2.4                                                                |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 1,1,1-Trichloroethane                 | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| 1,1,2-Trichloroethane                 | 0.5 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Trichloroethene                       | 0.2 U                                                         | 1.0 U                                                          | 0.2 U                                                              | 1.0 U                                                          | 0.2 U                                                              |
| Trichlorofluoromethane                | 0.2 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.2 U                                                              |
| Vinyl Acetate                         | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| Vinyl Chloride                        | 0.5 0                                                         | 2.5 0<br>2.6                                                   | 3.6                                                                | 1.0 U                                                          | 0.5 U                                                              |
| m,p-Xylene                            | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.2 U                                                              |
| o-Xylene                              | 0.5 U                                                         | 2.5 U                                                          | 0.5 U                                                              | 2.5 U                                                          | 0.5 U                                                              |
| ,                                     | 3.3 0                                                         | 2.5 0                                                          | 3.5 0                                                              | 2.5 0                                                          | 3.3 <b>3</b>                                                       |
| VOLATILES (µg/L)                      |                                                               |                                                                |                                                                    |                                                                |                                                                    |
| Method 8260C SIM                      |                                                               |                                                                |                                                                    |                                                                |                                                                    |
| Tetrachloroethene                     |                                                               | 0.020 U                                                        |                                                                    | 0.020 U                                                        |                                                                    |
| Vinyl Chloride                        |                                                               | 3.3                                                            |                                                                    | 0.11                                                           |                                                                    |

|                                       | AGW251-5-63  | AGW251-6-76         | AGW251-7-87             |
|---------------------------------------|--------------|---------------------|-------------------------|
|                                       | Intermediate | Deep                | Deep                    |
|                                       | 1488488      | 1488488             | 1488488                 |
|                                       | 7531106      | 7531107             | 7531105                 |
|                                       | 7/11/2014    | 7/11/2014           | 7/11/2014               |
| VOLATILES (ver/L)                     |              |                     |                         |
| VOLATILES (µg/L)<br>Method SW8260C    |              |                     |                         |
| Acetone                               | 11           | 5.0 U               | 5.8                     |
| Benzene                               | 0.4          | 0.2 U               | 0.4                     |
| Bromodichloromethane                  | 0.4<br>0.5 U | 0.2 U               | 0.4<br>0.5 U            |
| Bromoform                             | 0.5 U        | 0.5 U               | 0.5 U                   |
| Bromomethane                          | 0.5 U        | 0.5 U               | 0.5 U                   |
| 2-Butanone                            | 5.0 U        | 5.0 U               | 5.0 U                   |
| Carbon Disulfide                      | 0.5 U        | 0.5 U               | 0.5 U                   |
| Carbon Tetrachloride                  | 0.5 U        | 0.5 U               | 0.5 U                   |
| Chlorobenzene                         | 0.2 U        | 0.2 U               | 0.2 U                   |
| Chloroethane                          | 0.5 U        | 0.5 U               | 0.5 U                   |
| Chloroform                            | 0.5 U        | 0.5 U<br><b>0.4</b> | 0.5 U<br><b>0.3</b>     |
|                                       | 0.5 U        | 0.4<br>0.5 U        | 0.5<br>0.5 U            |
| Chloromethane Dibromochloromethane    | 0.5 U        | 0.5 U               | 0.5 U                   |
|                                       |              |                     |                         |
| 1,1-Dichloroethane                    | 0.5 U        | 0.5 U               | 0.5 U                   |
| 1,2-Dichloroethane                    | 0.2 U        | 0.2 U               | 0.2 U                   |
| 1,1-Dichloroethene                    | 0.2 U        | 0.2 U               | 0.2 U                   |
| cis-1,2-Dichloroethene                | 0.5          | 0.5                 | 0.5                     |
| trans-1,2-Dichloroethene              | 0.2 U        | 0.2 U               | 0.2 U                   |
| 1,2-Dichloropropane                   | 0.5 U        | 0.5 U               | 0.5 U                   |
| cis-1,3-Dichloropropene               | 0.2 U        | 0.2 U               | 0.2 U                   |
| trans-1,3-Dichloropropene             | 0.2 U        | 0.2 U               | 0.2 U                   |
| Ethylbenzene                          | 0.5 U        | 0.5 U               | 0.5 U                   |
| 2-Hexanone                            | 5.0 U        | 5.0 U               | 5.0 U                   |
| 4-Methyl-2-Pentanone (MIBK)           | 5.0 U        | 5.0 U               | 5.0 U                   |
| Methylene Chloride                    | 1.1          | 0.6                 | 0.8                     |
| Styrene                               | 0.5 U        | 0.5 U               | 0.5 U                   |
| 1,1,2,2-Tetrachloroethane             | 0.2 U        | 0.2 U               | 0.2 U                   |
| Tetrachloroethene                     | 0.2 U        | 0.2 U               | 0.2 U                   |
| Toluene                               | 6.5          | 0.8                 | 0.6                     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 U        | 0.5 U               | 0.5 U                   |
| 1,1,1-Trichloroethane                 | 0.5 U        | 0.5 U               | 0.5 U                   |
| 1,1,2-Trichloroethane                 | 0.2 U        | 0.2 U               | 0.2 U                   |
| Trichloroethene                       | 0.2 U        | 0.2 U               | 0.2 U                   |
| Trichlorofluoromethane                | 0.5 U        | 0.5 U               | 0.5 U                   |
| Vinyl Acetate                         | 0.5 U        | 0.5 U               | 0.5 U                   |
| Vinyl Chloride                        | 0.2 U        | 0.2 U               | 0.2 U                   |
| m,p-Xylene                            | 0.5 U        | 0.5 U               | 0.5 U                   |
| o-Xylene                              | 0.5 U        | 0.5 U               | 0.5 U                   |
| VOLATILES (µg/L)                      |              |                     |                         |
| Method 8260C SIM                      |              |                     |                         |
| Tetrachloroethene                     | 0.020 U      | 0.020 U             | 0.020 U                 |
| Vinyl Chloride                        | 0.020 0      | 0.020 0             | 0.020 0<br><b>0.052</b> |
| viriyi Criiolide                      | 0.054        | 0.000               | 0.052                   |

U = Indicates the compound was undetected at the reported concentration.

 $<sup>\</sup>label{eq:J} J = \text{Indicates the analyte was positively identified; the associated numerical value is} \\ \text{the approximate concentration of the analyte in the sample.}$ 

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

<sup>(</sup>a) = Sample rerun using antifoaming agent to achieve lower reporting limits.

|                                       | ASB0230-7<br>Water Table<br>1484433<br>7511109<br>6/23/2014 | ASB0230-15<br>Shallow<br>1484433<br>7511108<br>6/23/2014 | ASB0230-25<br>Shallow<br>1484433<br>7511107<br>6/23/2014 | ASB0230-48<br>Intermediate<br>1484433<br>7511106<br>6/23/2014 | ASB0231-6<br>Water Table<br>1484433<br>7511113<br>6/24/2014 | ASB0231-15<br>Shallow<br>1484433<br>7511111<br>6/24/2014 |
|---------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Method SW8260C                        |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Acetone                               | 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                                                    |
| Bromodichloromethane                  | 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                                                    |
| Bromomethane                          | 0.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 0.5 U                                                       | 0.5 U                                                    |
| 2-Butanone                            | 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                                                    |
| Carbon Tetrachloride                  | 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                                                    |
| Chloroethane                          | 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                                                    |
| Chloromethane                         | 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                                                    |
| 1.1-Dichloroethane                    | 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                                                    |
| 1,1-Dichloroethene                    | 0.2 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 0.2 U                                                       | 0.2 U                                                    |
| cis-1,2-Dichloroethene                | 1.1                                                         | 1.9                                                      | 2.4                                                      | 2.8                                                           | 2.1                                                         | 5.2                                                      |
| trans-1,2-Dichloroethene              | 0.3                                                         | 0.4                                                      | 0.5                                                      | 0.6                                                           | 0.3                                                         | 0.6                                                      |
| 1,2-Dichloropropane                   | 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                                                    |
| trans-1,3-Dichloropropene             | 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                                                    |
| 2-Hexanone                            | 5.0 U                                                       | 5.0 U                                                    | 5.0 U                                                    | 5.0 U                                                         | 5.0 U                                                       | 5.0 U                                                    |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                    |
| Styrene                               | 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                                                    |
| Tetrachloroethene                     | 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                                                    |
| 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                                                    |
| 1,1,1-Trichloroethane                 | 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                                                    |
| Trichloroethene                       | 1.7                                                         | 3.5                                                      | 3.6                                                      | 0.2 U                                                         | 1.8                                                         | 0.4                                                      |
| Trichlorofluoromethane                | 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                                                    |
| Vinyl Chloride                        | 0.5 U                                                       | 0.3                                                      | 0.4                                                      | 0.5 U                                                         | 0.5 U                                                       | 1.0                                                      |
| m,p-Xylene                            | 0.2 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                                                    |
| VOLATILES (μg/L)                      |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Method 8260C SIM                      |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Vinyl Chloride                        | 0.048                                                       | 0.21                                                     | 0.27                                                     | 0.088                                                         | 0.084                                                       | 0.80                                                     |

|                                       | Dup of ASB0231-15<br>ASB9231-15<br>Shallow<br>1484433<br>7511112<br>6/24/2014 | ASB0231-25<br>Shallow<br>1484433<br>7511110<br>6/24/2014 | ASB0232-7<br>Water Table<br>1484433<br>7511114<br>6/24/2014 | ASB0232-15<br>Shallow<br>1484433<br>7511115<br>6/24/2014 | ASB0232-25<br>Shallow<br>1484433<br>7511116<br>6/24/2014 |
|---------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| VOLATILES (μg/L)                      |                                                                               |                                                          |                                                             |                                                          |                                                          |
| Method SW8260C                        |                                                                               |                                                          |                                                             |                                                          |                                                          |
| Acetone                               | 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                                                    |
| Bromodichloromethane                  | 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                                                    |
| Bromomethane                          | 0.5 U                                                                         | 0.5 U                                                    | 0.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| 2-Butanone                            | 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                                                    |
| Carbon Tetrachloride                  | 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                                                    |
| Chloroethane                          | 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                                                    |
| Chloromethane                         | 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                                                    |
| 1,1-Dichloroethane                    | 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                                                    |
| 1,1-Dichloroethene                    | 0.2 U                                                                         | 0.2 U                                                    | 0.2 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| cis-1,2-Dichloroethene                | 5.3                                                                           | 9.6                                                      | 0.2 U                                                       | 3.9                                                      | 4.4                                                      |
| trans-1,2-Dichloroethene              | 0.6                                                                           | 0.8                                                      | 0.2 U                                                       | 0.3                                                      | 0.4                                                      |
| 1,2-Dichloropropane                   | 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                                                    |
| trans-1,3-Dichloropropene             | 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                                                    |
| 2-Hexanone                            | 5.0 U                                                                         | 5.0 U                                                    | 5.0 U                                                       | 5.0 U                                                    | 5.0 U                                                    |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                    |
| Styrene                               | 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                                                    |
| Tetrachloroethene                     | 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                                                    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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                                                    |
| 1,1,2-Trichloroethane                 | 0.2 U                                                                         | 0.2 U                                                    | 0.2 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Trichloroethene                       | 0.4                                                                           | 2.4                                                      | 0.2 U                                                       | 0.2 U                                                    | 1.4                                                      |
| Trichlorofluoromethane                | 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                                                    |
| Vinyl Chloride                        | 0.9                                                                           | 1.0                                                      | 0.2 U                                                       | 0.7                                                      | 0.5                                                      |
| m,p-Xylene                            | 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                                                    |
| VOLATILES (μg/L)                      |                                                                               |                                                          |                                                             |                                                          |                                                          |
| Method 8260C SIM                      |                                                                               |                                                          |                                                             |                                                          |                                                          |
| Vinyl Chloride                        | 0.79                                                                          | 0.84                                                     | 0.020 U                                                     | 0.57                                                     | 0.44                                                     |

|                                       | ASB0233-9<br>Water Table<br>1485104<br>7514026<br>6/25/2014 | ASB0233-15<br>Shallow<br>1485104<br>7514027<br>6/25/2014 | ASB0233-25<br>Shallow<br>1485104<br>7514028<br>6/25/2014 | ASB0233-50<br>Intermediate<br>1485104<br>7514029<br>6/25/2014 | ASB0234-8<br>Water Table<br>1485104<br>7514030<br>6/26/2014 | ASB0234-15<br>Shallow<br>1485104<br>7514031<br>6/26/2014 |
|---------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                             |                                                          |                                                          |                                                               |                                                             | _                                                        |
| Method SW8260C                        |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Acetone                               | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    | 5.0 U                                                         | 25 U                                                        | 5.0 U                                                    |
| Benzene                               | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Bromodichloromethane                  | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Bromoform                             | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Bromomethane                          | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 2-Butanone                            | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    | 5.0 U                                                         | 25 U                                                        | 5.0 U                                                    |
| Carbon Disulfide                      | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.6                                                           | 2.5 U                                                       | 0.5 U                                                    |
| Carbon Tetrachloride                  | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Chlorobenzene                         | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Chloroethane                          | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Chloroform                            | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Chloromethane                         | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Dibromochloromethane                  | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 1,1-Dichloroethane                    | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 1,2-Dichloroethane                    | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| 1,1-Dichloroethene                    | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| cis-1,2-Dichloroethene                | 1.0 U                                                       | 0.2 U                                                    | 1.8                                                      | 1.5                                                           | 1.0 U                                                       | 0.2 U                                                    |
| trans-1,2-Dichloroethene              | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| 1,2-Dichloropropane                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| cis-1,3-Dichloropropene               | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| trans-1,3-Dichloropropene             | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Ethylbenzene                          | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 2-Hexanone                            | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    | 5.0 U                                                         | 25 U                                                        | 5.0 U                                                    |
| 4-Methyl-2-Pentanone (MIBK)           | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    | 5.0 U                                                         | 25 U                                                        | 5.0 U                                                    |
| Methylene Chloride                    | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Styrene                               | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 1,1,2,2-Tetrachloroethane             | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Tetrachloroethene                     | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Toluene                               | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 1,1,1-Trichloroethane                 | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| 1,1,2-Trichloroethane                 | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| Trichloroethene                       | 1.0 U                                                       | 0.2 U                                                    | 4.6                                                      | 3.2                                                           | 1.0 U                                                       | 0.2 U                                                    |
| Trichlorofluoromethane                | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Vinyl Acetate                         | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| Vinyl Chloride                        | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    | 0.2 U                                                         | 1.0 U                                                       | 0.2 U                                                    |
| m,p-Xylene                            | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| o-Xylene                              | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    | 0.5 U                                                         | 2.5 U                                                       | 0.5 U                                                    |
| VOLATILES (μg/L)                      |                                                             |                                                          |                                                          |                                                               |                                                             |                                                          |
| Method 8260C SIM                      | 1                                                           |                                                          |                                                          |                                                               |                                                             |                                                          |
| Vinyl Chloride                        | 0.10 U                                                      | 0.020 U                                                  | 0.16                                                     | 0.13                                                          | 0.10 U                                                      | 0.020 U                                                  |

|                                       | ASB0234-25<br>Shallow<br>1485104<br>7514032<br>6/26/2014 | ASB0234-50<br>Intermediate<br>1485104<br>7514033<br>6/26/2014 | ASB0235-8<br>Water Table<br>1487558<br>7526696<br>7/7/2014 | ASB0235-15<br>Shallow<br>1487558<br>7526697<br>7/7/2014 | ASB0235-25<br>Shallow<br>1487558<br>7526698<br>7/7/2014 |
|---------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| VOLATILES (μg/L)                      |                                                          |                                                               |                                                            |                                                         |                                                         |
| Method SW8260C                        | 5011                                                     | 5.0 U                                                         | 5.0 U                                                      | 5.0 U                                                   | 5.0 U                                                   |
| Acetone<br>Benzene                    | 5.0 U<br>0.2 U                                           | 5.0 U<br>0.2 U                                                | 0.2 U                                                      | 5.0 U<br>0.2 U                                          | 5.0 U<br>0.2 U                                          |
| Bromodichloromethane                  | 0.2 U<br>0.5 U                                           | 0.2 U<br>0.5 U                                                | 0.2 U                                                      | 0.2 U<br>0.5 U                                          | 0.2 U<br>0.5 U                                          |
| Bromoform                             | 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                                                   |
| 2-Butanone                            | 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                                                   |
| Carbon Tetrachloride                  | 0.5 U                                                    | 0.5 U                                                         | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   |
| Chlorobenzene                         | 0.2 U                                                    | 0.2 U                                                         | 0.2 U                                                      | 0.5 U                                                   | 0.5 U                                                   |
| Chloroethane                          | 0.5 U                                                    | 0.5 U                                                         | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   |
| Chloroform                            | 0.5 U                                                    | 0.5 U                                                         | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   |
| Chloromethane                         | 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                                                   |
| 1,1-Dichloroethane                    | 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                                                   |
| 1.1-Dichloroethene                    | 0.2 U                                                    | 0.2 U                                                         | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   |
| cis-1,2-Dichloroethene                | 1.5                                                      | 1.5                                                           | 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                                                   |
| 1,2-Dichloropropane                   | 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                                                   |
| trans-1,3-Dichloropropene             | 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                                                   |
| 2-Hexanone                            | 5.0 U                                                    | 5.0 U                                                         | 5.0 U                                                      | 5.0 U                                                   | 5.0 U                                                   |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                   |
| Styrene                               | 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                                                   |
| Tetrachloroethene                     | 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                                                   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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                                                   |
| 1,1,2-Trichloroethane                 | 0.2 U                                                    | 0.2 U                                                         | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   |
| Trichloroethene                       | 4.2                                                      | 4.3                                                           | 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                                                   |
| Vinyl Acetate                         | 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                                                   |
| m,p-Xylene                            | 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                                                   |
| VOLATILES (μg/L)                      |                                                          |                                                               |                                                            |                                                         |                                                         |
| Method 8260C SIM                      |                                                          |                                                               |                                                            |                                                         |                                                         |
| Vinyl Chloride                        | 0.064                                                    | 0.089                                                         | 0.10 U                                                     | 0.020 U                                                 | 0.020 U                                                 |

|                                       | Dup of ASB0235-25<br>ASB9235-25<br>Shallow<br>1487558<br>7526700<br>7/7/2014 | ASB0235-50<br>Intermediate<br>1487558<br>7526699<br>7/7/2014 | ASB0236-9<br>Water Table<br>1487558<br>7526701<br>7/8/2014 | ASB0236-15<br>Shallow<br>1487558<br>7526702<br>7/8/2014 | ASB0236-25<br>Shallow<br>1487558<br>7526703<br>7/8/2014 |
|---------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                                              |                                                              |                                                            |                                                         |                                                         |
| Method SW8260C                        |                                                                              |                                                              |                                                            |                                                         |                                                         |
| Acetone                               | 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                                                   |
| Bromodichloromethane                  | 0.2 U                                                                        | 0.5 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.5 U                                                   |
| Bromoform                             | 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                                                   |
| 2-Butanone                            | 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                                                   |
| Carbon Tetrachloride                  | 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                                                   |
| Chloroethane                          | 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                                                   |
| Chloromethane                         | 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                                                   |
| 1,1-Dichloroethane                    | 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                                                   |
| 1,1-Dichloroethene                    | 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 U                                                   | 0.8                                                     |
| trans-1,2-Dichloroethene              | 0.2 U                                                                        | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.3                                                     |
| 1,2-Dichloropropane                   | 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                                                   |
| trans-1,3-Dichloropropene             | 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                                                   |
| 2-Hexanone                            | 5.0 U                                                                        | 5.0 U                                                        | 5.0 U                                                      | 5.0 U                                                   | 5.0 U                                                   |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                   |
| Styrene                               | 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                                                   |
| Tetrachloroethene                     | 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                                                   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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                                                   |
| 1,1,2-Trichloroethane                 | 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                                                   | 0.5                                                     |
| Trichlorofluoromethane                | 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                                                   |
| Vinyl Chloride                        | 0.2 U                                                                        | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   |
| m,p-Xylene                            | 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                                                   |
| VOLATILES (µg/L)                      |                                                                              |                                                              |                                                            |                                                         |                                                         |
| Method 8260C SIM                      |                                                                              |                                                              |                                                            |                                                         |                                                         |
| Vinyl Chloride                        | 0.020 U                                                                      | 0.061                                                        | 0.10 U                                                     | 0.020 U                                                 | 0.045                                                   |

|                                       | ASB0236-50<br>Intermediate<br>1487558<br>7526704<br>7/8/2014 | ASB0237-8<br>Water Table<br>1488490<br>7531140<br>7/9/2014 | ASB0237-15<br>Shallow<br>1488490<br>7531139<br>7/9/2014 | ASB0237-25<br>Shallow<br>1488490<br>7531138<br>7/9/2014 | ASB0238-8<br>Water Table<br>1488490<br>7531137<br>7/9/2014 |
|---------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|
| VOLATILES (µg/L)                      |                                                              |                                                            |                                                         |                                                         |                                                            |
| Method SW8260C                        |                                                              |                                                            |                                                         |                                                         |                                                            |
| Acetone                               | 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                                                      |
| Bromodichloromethane                  | 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                                                      |
| Bromomethane                          | 0.5 U                                                        | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   | 0.5 U                                                      |
| 2-Butanone                            | 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                                                      |
| Carbon Tetrachloride                  | 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                                                      |
| Chloroethane                          | 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                                                      |
| Chloromethane                         | 0.5 U<br>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                                                      |
| 1,1-Dichloroethane                    | 0.5 U<br>0.2 U                                               | 0.5 U                                                      | 0.5 U                                                   | 0.5 U<br>0.2 U                                          | 0.5 U                                                      |
| 1,2-Dichloroethane                    |                                                              | 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                                                      |
| cis-1,2-Dichloroethene                | 1.5                                                          | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   | 0.2 U                                                      |
| trans-1,2-Dichloroethene              | 0.4                                                          | 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                                                      |
| cis-1,3-Dichloropropene               | 0.2 U                                                        | 0.2 U<br>0.2 U                                             | 0.2 U                                                   | 0.2 U                                                   | 0.2 U                                                      |
| trans-1,3-Dichloropropene             | 0.2 U<br>0.5 U                                               | 0.2 U<br>0.5 U                                             | 0.2 U                                                   | 0.2 U<br>0.5 U                                          | 0.2 U<br>0.5 U                                             |
| Ethylbenzene                          |                                                              | 0.5 U<br>5.0 U                                             | 0.5 U                                                   | 0.5 U<br>5.0 U                                          |                                                            |
| 2-Hexanone                            | 5.0 U<br>5.0 U                                               | 5.0 U<br>5.0 U                                             | 5.0 U<br>5.0 U                                          |                                                         | 5.0 U<br>5.0 U                                             |
| 4-Methyl-2-Pentanone (MIBK)           | 5.0 U<br>0.5 U                                               | 0.5 U                                                      | 5.0 U<br>0.5 U                                          | 5.0 U<br>0.5 U                                          | 0.5 U                                                      |
| Methylene Chloride<br>Styrene         | 0.5 U<br>0.5 U                                               | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   | 0.5 U                                                      |
| 1,1,2,2-Tetrachloroethane             | 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                                                      |
| Toluene                               | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   | 0.2 U                                                      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   | 0.2 U                                                      |
| 1,1,1-Trichloroethane                 | 0.5 U                                                        | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   | 0.5 U                                                      |
| 1,1,2-Trichloroethane                 | 0.3 U<br>0.2 U                                               | 0.3 U                                                      | 0.5 U                                                   | 0.5 U                                                   | 0.3 U                                                      |
| Trichloroethene                       | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.2 U                                                   | 0.2 U                                                      |
| Trichlorofluoromethane                | 0.2 U                                                        | 0.2 U                                                      | 0.2 U                                                   | 0.5 U                                                   | 0.2 U                                                      |
| Vinyl Acetate                         | 0.5 U                                                        | 0.5 U                                                      | 0.5 U                                                   | 0.5 U                                                   | 0.5 U                                                      |
| Vinyl Chloride                        | 0.5 U                                                        | 0.5 U                                                      | 0.2 U                                                   | 0.2 U                                                   | 0.5 U                                                      |
| m,p-Xylene                            | 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                                                      |
| VOLATILES (μg/L)                      |                                                              |                                                            |                                                         |                                                         |                                                            |
| Method 8260C SIM                      |                                                              |                                                            |                                                         |                                                         | 1                                                          |
| Vinyl Chloride                        | 0.070                                                        | 0.020 U                                                    | 0.020 U                                                 | 0.020 U                                                 | 0.020 U                                                    |

|                                                    | ASB0238-15<br>Shallow<br>1488490<br>7531136<br>7/9/2014 | ASB0238-25<br>Shallow<br>1488490<br>7531135<br>7/9/2014 | ASB0239-9<br>Water Table<br>1488490<br>7531132<br>7/10/2014 | ASB0239-15<br>Shallow<br>1488490<br>7531133<br>7/10/2014 | ASB0239-25<br>Shallow<br>1488490<br>7531134<br>7/10/2014 |
|----------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| VOLATILES (μg/L)                                   |                                                         |                                                         |                                                             |                                                          |                                                          |
| Method SW8260C                                     |                                                         |                                                         |                                                             |                                                          |                                                          |
| Acetone                                            | 5.0 U                                                   | 5.0 U                                                   | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    |
| Benzene                                            | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Bromodichloromethane                               | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Bromoform                                          | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Bromomethane                                       | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| 2-Butanone                                         | 5.0 U                                                   | 5.0 U                                                   | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    |
| Carbon Disulfide                                   | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Carbon Tetrachloride                               | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Chlorobenzene                                      | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Chloroethane                                       | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Chloroform                                         | 0.2 U<br>0.5 U                                          | 0.2 U<br>0.5 U                                          | 1.0 U<br>2.5 U                                              | 0.2 U<br>0.5 U                                           | 0.2 U<br>0.5 U                                           |
| Chloromethane Dibromochloromethane                 | 0.5 U<br>0.5 U                                          | 0.5 U<br>0.5 U                                          | 2.5 U<br>2.5 U                                              | 0.5 U<br>0.5 U                                           | 0.5 U<br>0.5 U                                           |
| 1,1-Dichloroethane                                 | 0.5 U<br>0.5 U                                          | 0.5 U<br>0.5 U                                          | 2.5 U<br>2.5 U                                              | 0.5 U                                                    | 0.5 U                                                    |
| •                                                  | 0.5 U<br>0.2 U                                          | 0.5 U<br>0.2 U                                          | 2.5 U<br>1.0 U                                              | 0.5 U<br>0.2 U                                           | 0.5 U<br>0.2 U                                           |
| 1,2-Dichloroethane 1,1-Dichloroethene              | 0.2 U<br>0.2 U                                          | 0.2 U<br>0.2 U                                          | 1.0 U                                                       | 0.2 U<br>0.2 U                                           | 0.2 U<br>0.2 U                                           |
| •                                                  | 0.2 U<br>0.2 U                                          | 0.2 U<br><b>0.8</b>                                     | 1.0 U                                                       | 0.2 U<br>0.2 U                                           | 0.2 U<br><b>0.3</b>                                      |
| cis-1,2-Dichloroethene<br>trans-1,2-Dichloroethene | 0.2 U<br>0.2 U                                          | 0. <b>8</b><br>0.2 U                                    | 1.0 U                                                       | 0.2 U<br>0.2 U                                           | 0.3<br>0.2 U                                             |
| 1,2-Dichloropropane                                | 0.2 U                                                   | 0.2 U                                                   | 2.5 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| cis-1,3-Dichloropropene                            | 0.5 U                                                   | 0.5 U                                                   | 2.5 U<br>1.0 U                                              | 0.5 U                                                    | 0.5 U                                                    |
| trans-1,3-Dichloropropene                          | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Ethylbenzene                                       | 0.2 U                                                   | 0.2 U                                                   | 2.5 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| 2-Hexanone                                         | 5.0 U                                                   | 5.0 U                                                   | 2.5 U                                                       | 5.0 U                                                    | 5.0 U                                                    |
| 4-Methyl-2-Pentanone (MIBK)                        | 5.0 U                                                   | 5.0 U                                                   | 25 U                                                        | 5.0 U                                                    | 5.0 U                                                    |
| Methylene Chloride                                 | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Styrene                                            | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| 1,1,2,2-Tetrachloroethane                          | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Tetrachloroethene                                  | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Toluene                                            | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| 1,1,2-Trichloro-1,2,2-trifluoroethane              | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| 1,1,1-Trichloroethane                              | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| 1,1,2-Trichloroethane                              | 0.2 U                                                   | 0.2 U                                                   | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Trichloroethene                                    | 0.2 U                                                   | 0.2                                                     | 1.0 U                                                       | 0.2 U                                                    | 0.2 U                                                    |
| Trichlorofluoromethane                             | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Vinyl Acetate                                      | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| Vinyl Chloride                                     | 0.2 U                                                   | 1.1                                                     | 1.0 U                                                       | 0.2 U                                                    | 0.2                                                      |
| m,p-Xylene                                         | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| o-Xylene                                           | 0.5 U                                                   | 0.5 U                                                   | 2.5 U                                                       | 0.5 U                                                    | 0.5 U                                                    |
| VOLATILES (μg/L)                                   |                                                         |                                                         |                                                             |                                                          |                                                          |
| Method 8260C SIM                                   |                                                         |                                                         |                                                             |                                                          |                                                          |
| Vinyl Chloride                                     | 0.020 U                                                 | 1.1                                                     | 0.020 U                                                     | 0.020 U                                                  | 0.22                                                     |

| Bromodichloromethane         0.5 U         0.5 U </th <th>2 U<br/>5 U<br/>5 U<br/>5 U</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 U<br>5 U<br>5 U<br>5 U |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Acetone         5.0 U         0.2 U         0.0 U         0.0 U         0.5 U         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 U<br>5 U<br>5 U<br>5 U |
| Benzene   D.2 U   D.2 U   D.2 U   D.5 U   D.   | 2 U<br>5 U<br>5 U<br>5 U |
| Bromodichloromethane   0.5 U   | 5 U<br>5 U<br>5 U<br>0 U |
| Bromoform         0.5 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 U<br>5 U<br>0 U        |
| Bromomethane         0.5 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 U<br>0 U               |
| 2-Butanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | O U                      |
| Carbon Disulfide         0.5 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                        |
| Carbon Tetrachloride         0.2 U         0.2 U         0.2 U         0.2 U         0.2 U         0.2 U         0.0 U </td <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |
| Chlorobenzene         0.5 U         0.2 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 U                      |
| Chloroethane         0.5 U         0.2 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 U                      |
| Chloroform         0.2 U         0.5 U         0.2 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5 U                      |
| Chloromethane       0.5 U       0.2 U       0.5 U       0.2 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 U                      |
| Dibromochloromethane         0.5 U         0.2 U         0.5 U </td <td>2 U</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 U                      |
| 1,1-Dichloroethane       0.5 U       0.2 U       0.5 U       0.2 U </td <td>5 U</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 U                      |
| 1,2-Dichloroethane       0.2 U       0.5 U       0.2 U </td <td>5 U</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 U                      |
| 1,1-Dichloroethene       0.2 U       0.5 U       0.2 U </td <td>5 U</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 U                      |
| cis-1,2-Dichloroethene       0.2 U       0.5 U       0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 U                      |
| trans-1,2-Dichloroethene     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       cis-1,3-Dichloropropene     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       Ethylbenzene     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       4-Methyl-2-Pentanone (MIBK)     5.0 U     5.0 U     5.0 U     5.0 U     5.0 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
| 1,2-Dichloropropane       0.5 U       0.2 U       0.5 U<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -                        |
| cis-1,3-Dichloropropene         0.2 U         0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                        |
| trans-1,3-Dichloropropene       0.2 U       0.5 U       5.0 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                        |
| Ethylbenzene         0.5 U         5.0 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 U                      |
| 2-Hexanone       5.0 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                        |
| 4-Methyl-2-Pentanone (MIBK) 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5 U                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                        |
| Methylene Chloride 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                        |
| 0511 0511 0511 0511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |
| , and the second | 5 U                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 U                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 U                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 U<br>5 U               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 U                      |
| ' '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 U                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 U                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 U<br>5 U               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 U                      |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 U<br>2 U               |
| · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 U<br>5 U               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 U                      |
| o-Xylene 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ) U                      |
| VOLATILES (μg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| Method 8260C SIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |
| Vinyl Chloride 0.020 U 0.020 U 0.077 0.020 U 0.020 U 0.020 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |

## TABLE 7 GROUNDWATER ANALYTICAL RESULTS FOR DIRECT-PUSH BORING SAMPLES BOEING AUBURN ALGONA, WASHINGTON

|                                       |            |              | 1           | Г          | Oup of ASB0242-25 |
|---------------------------------------|------------|--------------|-------------|------------|-------------------|
|                                       | ASB0241-25 | ASB0241-48   | ASB0242-12  | ASB0242-25 | ASB9242-25        |
|                                       | Shallow    | Intermediate | Water Table | Shallow    | Shallow           |
|                                       | 1488490    | 1488490      | 1489359     | 1489359    | 1489359           |
|                                       | 7531127    | 7531128      | 7534729     | 7534730    | 7534731           |
|                                       | 7/11/2014  | 7/11/2014    | 07/14/2014  | 07/14/2014 | 07/14/2014        |
| VOLATILES (μg/L)                      |            |              |             |            |                   |
| Method SW8260C                        |            |              |             |            |                   |
| Acetone                               | 5.0 U      | 7.1          | 5.0 U       | 5.0 U      | 6.0               |
| Benzene                               | 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             |
| Bromoform                             | 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             |
| 2-Butanone                            | 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             |
| Carbon Tetrachloride                  | 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             |
| Chloroethane                          | 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             |
| Chloromethane                         | 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             |
| 1,1-Dichloroethane                    | 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             |
| 1,1-Dichloroethene                    | 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       | 0.6        | 0.6               |
| trans-1,2-Dichloroethene              | 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             |
| cis-1,3-Dichloropropene               | 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             |
| Ethylbenzene                          | 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             |
| 4-Methyl-2-Pentanone (MIBK)           | 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             |
| Styrene                               | 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             |
| Tetrachloroethene                     | 0.2 U      | 0.2 U        | 0.2 U       | 0.2        | 0.2 U             |
| Toluene                               | 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             |
| 1,1,1-Trichloroethane                 | 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             |
| Trichloroethene                       | 0.2 U      | 0.2 U        | 0.2 U       | 1.3        | 1.3               |
| Trichlorofluoromethane                | 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             |
| Vinyl Chloride                        | 0.2 U      | 0.2 U        | 0.2 U       | 0.2 U      | 0.2 U             |
| m,p-Xylene                            | 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             |
| VOLATILES (μg/L)                      |            |              |             |            |                   |
| Method 8260C SIM                      |            |              |             |            |                   |
| Vinyl Chloride                        | 0.020 U    | 0.020 U      | 0.020 U     | 0.020      | 0.022             |
|                                       |            |              |             |            |                   |

## TABLE 7 GROUNDWATER ANALYTICAL RESULTS FOR DIRECT-PUSH BORING SAMPLES BOEING AUBURN ALGONA, WASHINGTON

|                                       | ASB0242-48<br>Intermediate<br>1489359<br>7534732<br>07/14/2014 | ASB0243-14<br>Water Table<br>1489359<br>7534733<br>07/15/2014 | ASB0243-25<br>Shallow<br>1489359<br>7534734<br>07/15/2014 | ASB0243-50<br>Intermediate<br>1489359<br>7534735<br>07/15/2014 |
|---------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| VOLATILES (μg/L)                      |                                                                |                                                               |                                                           |                                                                |
| Method SW8260C                        |                                                                |                                                               |                                                           |                                                                |
| Acetone                               | 5.1                                                            | 5.0 U                                                         | 5.0 U                                                     | 5.0 U                                                          |
| Benzene                               | 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                                                          |
| Bromoform                             | 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                                                          |
| 2-Butanone                            | 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                                                          |
| Carbon Tetrachloride Chlorobenzene    | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| Chloroethane                          | 0.5 U                                                          | 0.5 U                                                         | 0.5 U                                                     | 0.5 U                                                          |
| Chloroform                            | 0.5 U<br>0.2 U                                                 | 0.5 U<br>0.2 U                                                | 0.5 U<br>0.2 U                                            | 0.5 U<br>0.2 U                                                 |
| Chloromethane                         | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| Dibromochloromethane                  | 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 O                                                          |
| 1,2-Dichloroethane                    | 0.3 U                                                          | 0.3 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| 1,1-Dichloroethene                    | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 0.2 0                                                          |
| cis-1,2-Dichloroethene                | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 4.2                                                            |
| trans-1,2-Dichloroethene              | 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                                                          |
| cis-1,3-Dichloropropene               | 0.2 U                                                          | 0.5 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| trans-1,3-Dichloropropene             | 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                                                          |
| 2-Hexanone                            | 5.0 U                                                          | 5.0 U                                                         | 5.0 U                                                     | 5.0 U                                                          |
| 4-Methyl-2-Pentanone (MIBK)           | 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                                                          |
| Styrene                               | 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                                                          |
| Tetrachloroethene                     | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| Toluene                               | 0.2                                                            | 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                                                          |
| 1,1,1-Trichloroethane                 | 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                                                          |
| Trichloroethene                       | 0.8                                                            | 0.2 U                                                         | 0.7                                                       | 5.8                                                            |
| Trichlorofluoromethane                | 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                                                          |
| Vinyl Chloride                        | 0.2 U                                                          | 0.2 U                                                         | 0.2 U                                                     | 0.2 U                                                          |
| m,p-Xylene                            | 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                                                          |
| VOLATILES (μg/L)                      |                                                                |                                                               |                                                           |                                                                |
| Method 8260C SIM                      |                                                                |                                                               |                                                           |                                                                |
| Vinyl Chloride                        | 0.020 U                                                        | 0.020 U                                                       | 0.020 U                                                   | 0.044                                                          |

 $\label{eq:U} U = \text{Indicates the compound was not detected at the reported concentration.} \\ \\ \text{Bold} = \text{Detected compound.} \\$ 

# TABLE 8 SHALLOW ZONE GROUNDWATER ANALYTICAL RESULTS MULTI-LEVEL WELL SCREENS AND DIRECT-PUSH BOREHOLE SAMPLES BOEING AUBURN ALGONA, WASHINGTON

| Location | Well Screen | Date      | Depth<br>(ft) | TCE<br>(µg/L) | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples | cis-1,2-DCE<br>(μg/L) | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples | VC (μg/L) | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples |
|----------|-------------|-----------|---------------|---------------|------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------|-----------|------------------------------------------------------------------------|
| AGW240   | AGW240-1    | 7/11/143  | 7.5           | <0.2          |                                                                        | <0.2                  |                                                                        | 0.74      |                                                                        |
|          | AGW240-3    | 7/11/143  | 18            | <0.2          | Same                                                                   | 0.7                   | Lower                                                                  | 3.7       | Lower                                                                  |
|          | AGW240-5    | 7/11/143  | 28.5          | <0.2          |                                                                        | 6.9                   |                                                                        | 4.1       |                                                                        |
| AGW241   | AGW241-1    | 7/11/143  | 6.5           | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
|          | AGW241-3    | 7/11/143  | 17            | <0.2          | Same                                                                   | 0.5                   | Lower                                                                  | 0.022     | Lower                                                                  |
|          | AGW241-5    | 7/11/143  | 27.5          | <0.2          |                                                                        | 0.6                   |                                                                        | 0.032     |                                                                        |
| AGW242   | AGW242-1    | 7/15/2014 | 6             | <0.2          |                                                                        | <0.2                  |                                                                        | 0.23      |                                                                        |
|          | AGW242-2    | 7/15/2014 | 16.5          | <0.2          | Same                                                                   | <0.2                  | Same                                                                   | <0.02     | Higher                                                                 |
|          | AGW242-3    | 7/15/2014 | 27            | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
| AGW243   | AGW243-1    | 7/14/2014 | 6.5           | <0.2          | Same                                                                   | <0.2                  | 0.2<br>Same                                                            |           | Higher                                                                 |
|          | AGW243-3    | 7/14/2014 | 25.5          | <0.2          | Jame                                                                   | <0.2                  | Jame                                                                   | <0.02     | riigilei                                                               |
| AGW247   | AGW247-1    | 7/14/2014 | 6             | <0.2          |                                                                        | 4.9                   | _                                                                      | 0.4       |                                                                        |
|          | AGW247-3    | 7/14/2014 | 16.5          | <0.2          | Same                                                                   | 6.3                   | Lower                                                                  | 1.1       | Lower                                                                  |
|          | AGW247-5    | 7/14/2014 | 27            | <0.2          |                                                                        | 5.5                   |                                                                        | 0.8       |                                                                        |
| AGW248   | AGW248-1    | 7/14/2014 | 5.5           | <0.2          |                                                                        | <0.2                  |                                                                        | 1.4       |                                                                        |
|          | AGW248-3    | 7/14/2014 | 16            | 5             | Lower                                                                  | 2                     | Lower                                                                  | 0.2       | Higher                                                                 |
|          | AGW248-5    | 7/14/2014 | 26.5          | 4.4           |                                                                        | 1.9                   |                                                                        | 0.2       |                                                                        |
| AGW249   | AGW249-1    | 7/11/2014 | 8.5           | 0.9           |                                                                        | 0.8                   |                                                                        | 0.4       |                                                                        |
|          | AGW249-3    | 7/11/2014 | 19            | 6.4           | Lower                                                                  | 2.3                   | Lower                                                                  | 0.13      | Higher                                                                 |
|          | AGW249-5    | 7/11/2014 | 29.5          | 6.7           |                                                                        | 2.2                   |                                                                        | 0.13      |                                                                        |
| AGW250   | AGW250-1    | 7/14/2014 | 9             | <0.2          | Lower                                                                  | <0.2                  | Lower                                                                  | <0.02     | Lower                                                                  |
|          | AGW250-2    | 7/14/2014 | 26.5          | 0.2           | Lower                                                                  | 0.2                   | Lower                                                                  | 0.034     | Lower                                                                  |
| AGW251   | AGW251-1    | 7/11/2014 | 8.5           | <0.2          | Same                                                                   | 0.5                   | Lower                                                                  | 1.2       | Higher                                                                 |
|          | AGW251-2    | 7/11/2014 | 25.5          | <0.2          | Same                                                                   | 1.7                   | Lower                                                                  | 0.6       | riigilei                                                               |
| ASB0235  | ASB0235-8   | 7/7/2014  | 8             | <0.2          |                                                                        | <0.2                  |                                                                        | <0.1      |                                                                        |
|          | ASB0235-15  | 7/7/2014  | 15            | <0.2          | Same                                                                   | <0.2                  | Same                                                                   | <0.02     | Same                                                                   |
|          | ASB0235-25  | 7/7/2014  | 25            | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
| ASB0236  | ASB0236-9   | 7/8/2014  | 9             | <0.2          |                                                                        | <0.2                  |                                                                        | <0.1      |                                                                        |
|          | ASB0236-15  | 7/8/2014  | 15            | <0.2          | Lower                                                                  | <0.2                  | Lower                                                                  | <0.02     | Lower                                                                  |
|          | ASB0236-25  | 7/8/2014  | 25            | 0.5           | 0.5                                                                    |                       |                                                                        | 0.045     |                                                                        |
| ASB0237  | ASB0237-8   | 7/9/2014  | 8             | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
|          | ASB0237-15  | 7/9/2014  | 15            | <0.2          | Same                                                                   | <0.2                  | Same                                                                   | <0.02     | Same                                                                   |
|          | ASB0237-25  | 7/9/2014  | 25            | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
| ASB0238  | ASB0238-8   | 7/9/2014  | 8             | <0.2          |                                                                        | <0.2                  |                                                                        | <0.02     |                                                                        |
|          | ASB0238-15  | 7/9/2014  | 15            | <0.2          | Lower                                                                  | <0.2                  | Lower                                                                  | <0.02     | Lower                                                                  |

### **TABLE 8**

### SHALLOW ZONE GROUNDWATER ANALYTICAL RESULTS MULTI-LEVEL WELL SCREENS AND DIRECT-PUSH BOREHOLE SAMPLES BOEING AUBURN ALGONA, WASHINGTON

| Location | Well Screen<br>ASB0238-25 | <b>Date</b> 7/9/2014 | Depth<br>(ft) | ΤCE<br>(μg/L)<br>0.2 | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples | cis-1,2-DCE<br>(µg/L)<br>0.8 | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples | VC (μg/L)<br>1.1 | Shallowest Sample<br>Concentration<br>Comparision to Deeper<br>Samples |  |
|----------|---------------------------|----------------------|---------------|----------------------|------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------|------------------------------------------------------------------------|--|
| ASB0239  | ASB0239-9                 | 7/10/2014            | 9             | <1.0                 |                                                                        | <1.0                         |                                                                        | <0.02            |                                                                        |  |
|          | ASB0239-15                | 7/10/2014            | 15            | <0.2                 | Same                                                                   | <0.2                         | Lower                                                                  | <0.02            | Lower                                                                  |  |
|          | ASB0239-25                | 7/10/2014            | 25            | <0.2                 |                                                                        | 0.3                          |                                                                        | 0.22             |                                                                        |  |
| ASB0240  | ASB0240-10                | 7/10/2014            | 10            | <0.2                 |                                                                        | <0.2                         |                                                                        | <0.02            |                                                                        |  |
|          | ASB0240-15                | 7/10/2014            | 15            | <0.2                 | Lower                                                                  | <0.2                         | Lower                                                                  | <0.02            | Lower                                                                  |  |
|          | ASB0240-25                | 7/10/2014            | 25            | 3.1                  |                                                                        | 1                            |                                                                        | 0.077            |                                                                        |  |
| ASB0241  | ASB0241-9                 | 7/11/2014            | 9             | <0.2                 |                                                                        | <0.2                         |                                                                        | <0.02            |                                                                        |  |
|          | ASB0241-15                | 7/11/2014            | 15            | <0.2                 | Same                                                                   | <0.2                         | Same                                                                   | <0.02            | Same                                                                   |  |
|          | ASB0241-25                | 7/11/2014            | 25            | <0.2                 |                                                                        | <0.2                         |                                                                        | <0.02            |                                                                        |  |
| ASB0242  | ASB0242-12                | 7/14/2014            | 12            | <0.2                 | Lower                                                                  | <0.2                         | Lower                                                                  | <0.02            |                                                                        |  |
|          | ASB0242-25                | 7/14/2014            | 25            | 1.3                  | Lower                                                                  | 0.6                          | Lower                                                                  | 0.02             | Lower                                                                  |  |
| ASB0243  | ASB0243-14                | 7/15/2014            | 14            | <0.2                 | Lower                                                                  | <0.2                         | Same                                                                   | <0.02            | Same                                                                   |  |
|          | ASB0243-25                | 7/15/2014            | 25            | 0.7                  | Lower                                                                  | <0.2                         | Same                                                                   | <0.02            | Same                                                                   |  |
|          |                           |                      |               | % Lower              | 44%                                                                    | % Lower                      | 67%                                                                    | % Lower          | 50%                                                                    |  |
|          |                           |                      |               | % Higher             | 0%                                                                     | % Higher                     | 0%                                                                     | % Higher         | 28%                                                                    |  |
|          |                           |                      |               | % Same               | 56%                                                                    | % Same                       | 33%                                                                    | % Same           | 22%                                                                    |  |
|          |                           |                      |               |                      | 100%                                                                   |                              | 100%                                                                   |                  | 100%                                                                   |  |

TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
VC = vinyl chloride
ft = feet
µg/L = micrograms per liter

### Notes:

Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.

Multilevel wells have multiple channels. Channel designations are included in the well screen ID (e.g., AGW240-1)

Boring sample designations include the location name (e.g., ASB0235) followed by the depth (feet, below ground surface) at which the samples was collected (e.g., 8)

Bold = Depth interval with highest concentration..

Deeper Shallow Zone data is shaded gray.

### Monitoring Well Logs: AGW240 through AGW251

### Soil Classification System

MAJOR DIVISIONS

GRAPHIC LETTER SYMBOL SYMBOL (LETTER DESCRIPTIONS (2)(3)

GRAVEL AND GRAVELLY SOIL (Little or no fines)

(Mare then 50% of the following states and fines)

(Mare then 50% of the following states are states as a second state are

|                                                                                         | GRAVEL AND                                 | CLEAN GRAVEL                  | 8 8 8 | GW                                          | Well-graded gravel; gravel/sand mixture(s); little or no fines                                                 |
|-----------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------|-------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| SOIL<br>rial is<br>size)                                                                | GRAVELLY SOIL                              | (Little or no fines)          | 00000 | GP                                          | Poorly graded gravel; gravel/sand mixture(s); little or no fines                                               |
| ED Sinateria                                                                            | (More than 50% of coarse fraction retained | GRAVEL WITH FINES             |       | GM                                          | Silty gravel; gravel/sand/silt mixture(s)                                                                      |
| -GRAINED<br>150% of mat<br>No. 200 siev                                                 | on No. 4 sieve)                            | (Appreciable amount of fines) |       | GC                                          | Clayey gravel; gravel/sand/clay mixture(s)                                                                     |
| COARSE-GRAINED SOIL<br>(More than 50% of material is<br>larger than No. 200 sieve size) | SAND AND                                   | CLEAN SAND                    |       | SW                                          | Well-graded sand; gravelly sand; little or no fines                                                            |
| COARSE<br>(More than<br>larger than                                                     | SANDY SOIL                                 | (Little or no fines)          |       | SP                                          | Poorly graded sand; gravelly sand; little or no fines                                                          |
| (Mo<br>large                                                                            | (More than 50% of coarse fraction passed   | SAND WITH FINES               |       | SM                                          | Silty sand; sand/silt mixture(s)                                                                               |
|                                                                                         | through No. 4 sieve)                       | (Appreciable amount of fines) |       | SC                                          | Clayey sand; sand/clay mixture(s)                                                                              |
| L<br>ial                                                                                | SILT AI                                    | ND CLAY                       |       | ML                                          | Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity |
| D SOIL<br>f material<br>200 sieve                                                       | (Liquid limit                              | t less than 50)               |       | CL                                          | Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay                   |
| -GRAINED<br>than 50% of r<br>er than No. 2<br>size)                                     | · ·                                        | ,                             |       | OL                                          | Organic silt; organic, silty clay of low plasticity                                                            |
| FINE-GRAINEC<br>(More than 50% of<br>is smaller than No. 3<br>size)                     | SILT AI                                    | ND CLAY                       | ШШШ   | MH                                          | Inorganic silt; micaceous or diatomaceous fine sand                                                            |
| FINE-<br>More the smalle                                                                | (Liquid limit o                            |                               | СН    | Inorganic clay of high plasticity; fat clay |                                                                                                                |
| T 5 8                                                                                   |                                            | ,                             |       | ОН                                          | Organic clay of medium to high plasticity; organic silt                                                        |
|                                                                                         | HIGHLY ORGA                                | NIC SOIL                      |       | PT                                          | Peat; humus; swamp soil with high organic content                                                              |

GRAPHIC LETTER
OTHER MATERIALS SYMBOL TYPICAL DESCRIPTIONS

| PAVEMENT | AC or PC | Asphalt concrete pavement or Portland cement pavement |
|----------|----------|-------------------------------------------------------|
| ROCK     | RK       | Rock (See Rock Classification)                        |
| WOOD     | WD       | Wood, lumber, wood chips                              |
| DEBRIS   | DB       | Construction debris, garbage                          |

### NOTES:

- USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
- 2. Soil descriptions are based on the general approach presented in the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the Standard Test Method for Classification of Soils for Engineering Purposes, as outlined in ASTM D 2487.
- 3. Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:

Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc. Secondary Constituents: > 30% and  $\le 50\%$  - "very gravelly," "very sandy," "very silty," etc.

> 15% and  $\leq$  30% - "gravelly," "sandy," "silty," etc. Additional Constituents: > 5% and  $\leq$  15% - "with gravel," "with sand," "with silt," etc.

≤ 5% - "trace gravel," "trace sand," "trace silt," etc., or not noted.



Boeing Auburn Auburn, Washington

Soil Classification System and Key

Figure A-1

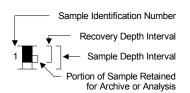
### **Drilling and Sampling Key**

### SAMPLER TYPE

### SAMPLE NUMBER & INTERVAL

### Code Description

- a 3.25-inch O.D., 2.42-inch I.D. Split Spoon
- b 2.00-inch O.D., 1.50-inch I.D. Split Spoon
- c Shelby Tube
- d Grab Sample
- e Single-Tube Core Barrel
- f Double-Tube Core Barrel
- g Other See text if applicable
- 1 300-lb Hammer, 30-inch Drop
- 2 140-lb Hammer, 30-inch Drop
- 3 Pushed
- 4 Rotosonic
- 5 Air Rotary (Rock)
- 6 Wash Rotary (Rock)
- 7 Other See text if applicable



### Field and Lab Test Data

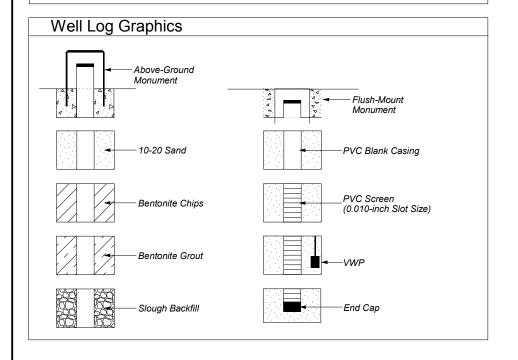
| Code      | Description                                     |
|-----------|-------------------------------------------------|
| PP = 1.0  | Pocket Penetrometer, tsf                        |
| TV = 0.5  | Torvane, tsf                                    |
| PID = 100 | Photoionization Detector VOC screening, ppm     |
| W = 10    | Moisture Content, %                             |
| D = 120   | Dry Density, pcf                                |
| -200 = 60 | Material smaller than No. 200 sieve, %          |
| GS        | Grain Size - See separate figure for data       |
| AL        | Atterberg Limits - See separate figure for data |
| VST       | Vane Shear Test                                 |
| GT        | Other Geotechnical Testing                      |
| CA        | Chemical Analysis                               |

### Groundwater

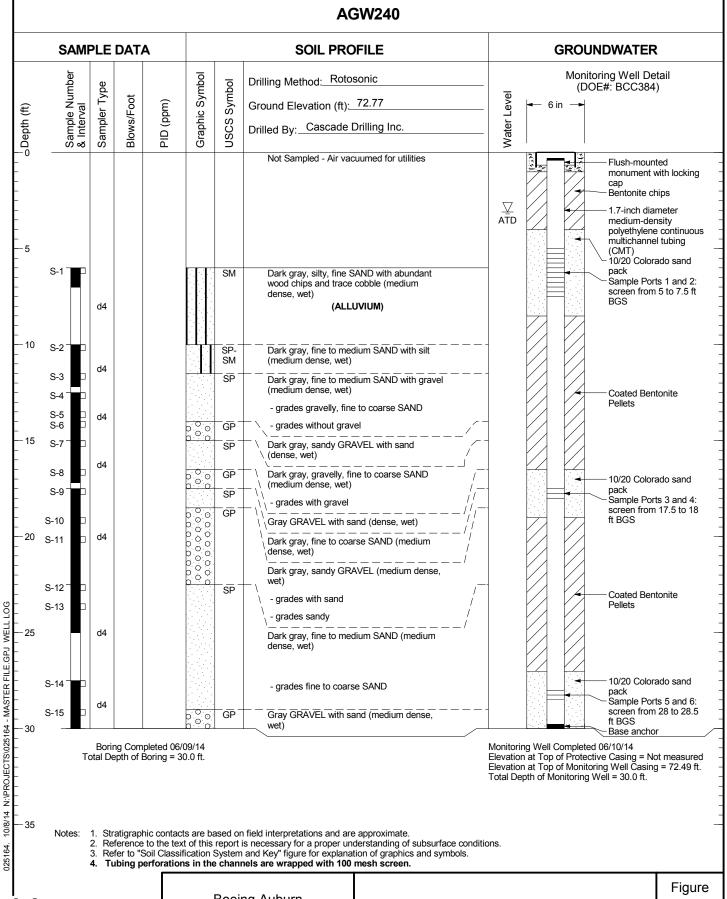
 $\nabla$  Approximate water elevation at time of drilling (ATD).

Approximate water elevation at other time(s). When multiple water levels are obtained other than ATD, only a representative range is shown. See text for additional information.

Note: Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.





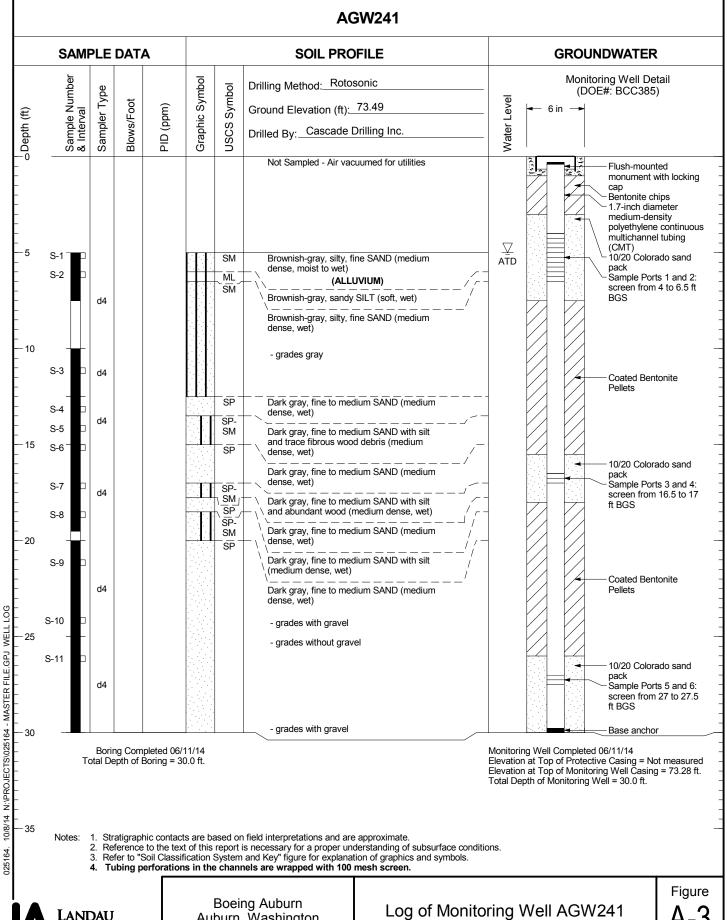




Boeing Auburn Auburn, Washington

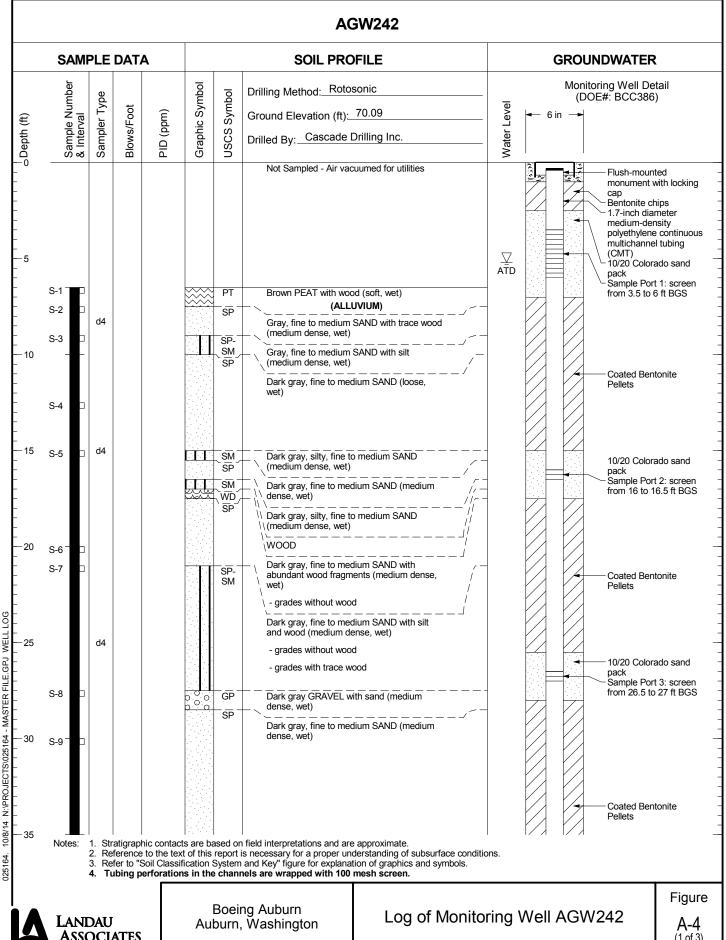
Log of Monitoring Well AGW240

A-2



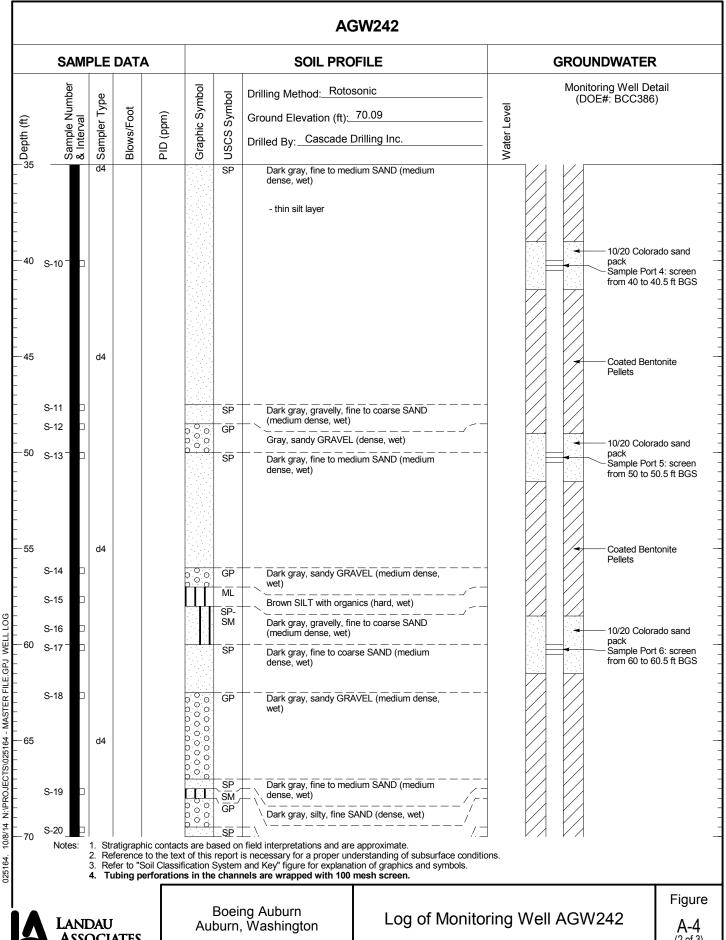


Auburn, Washington

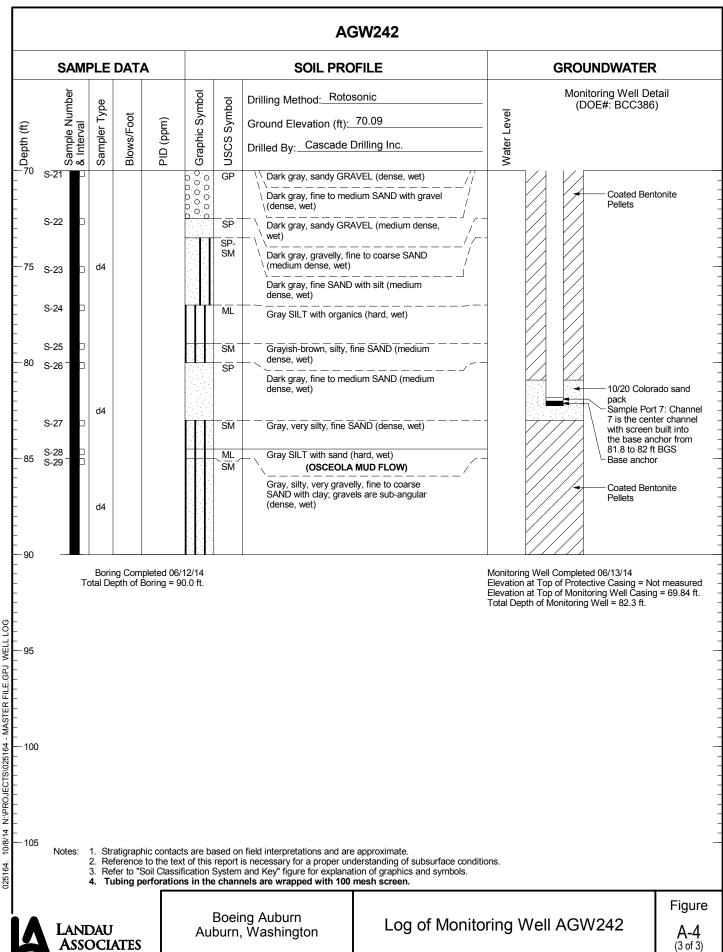


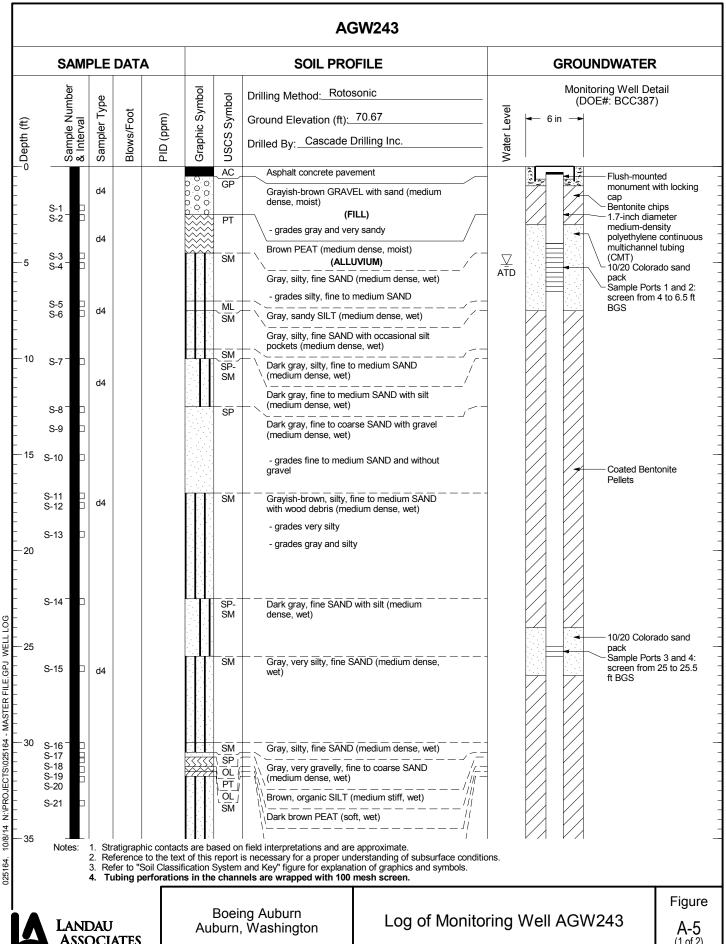


(1 of 3)

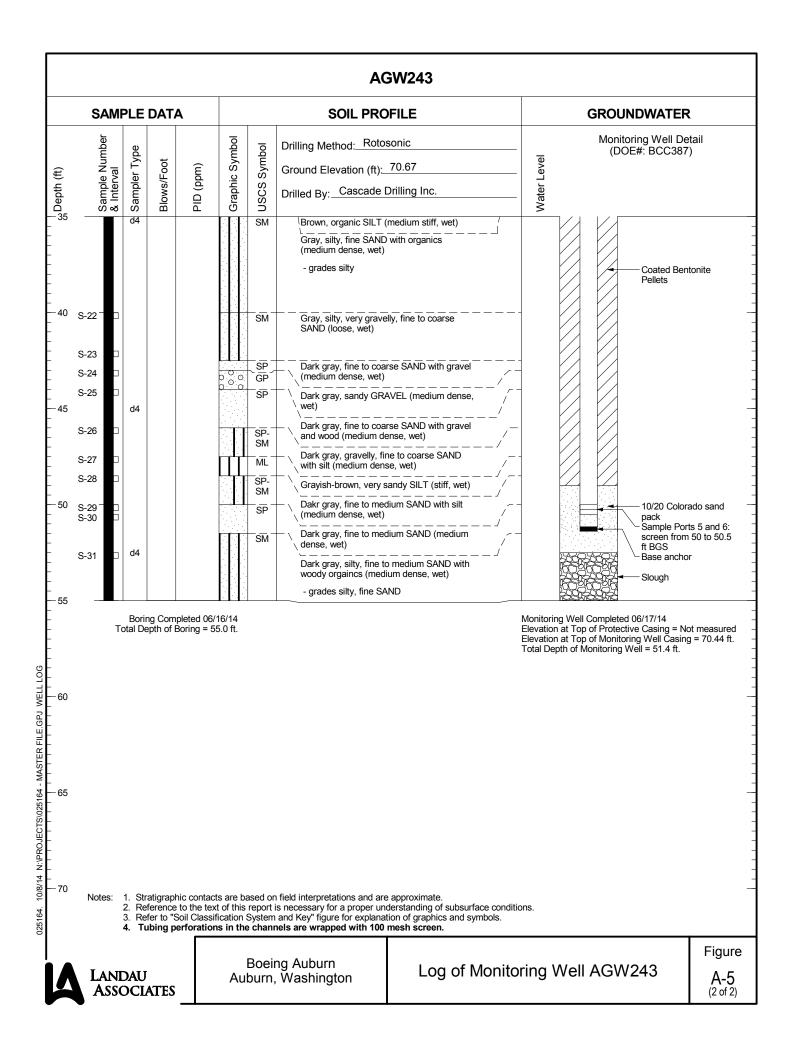


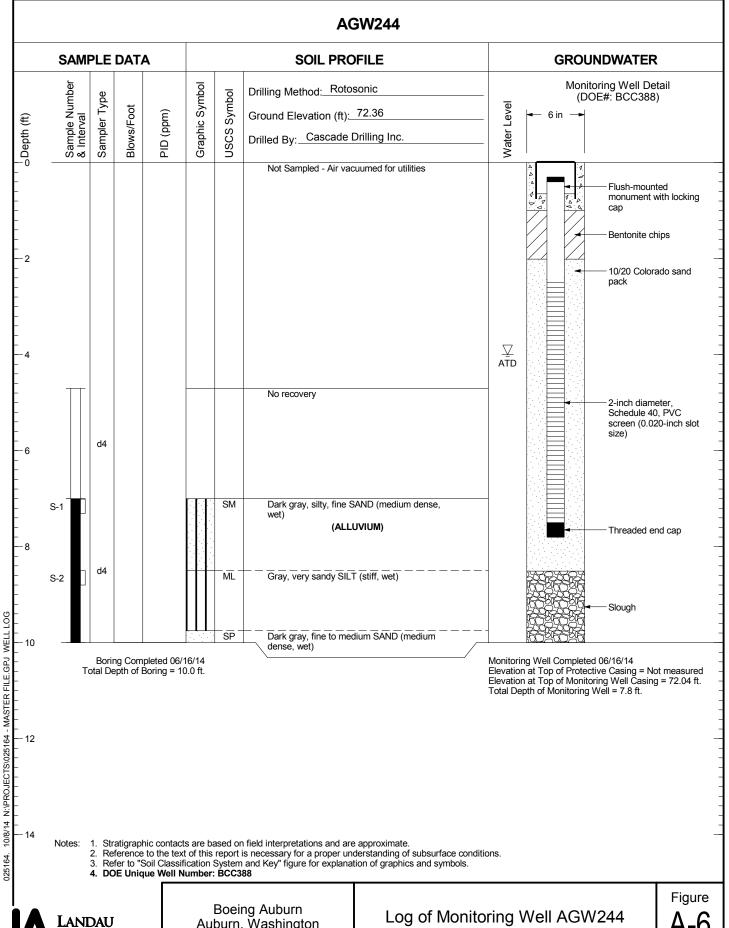
(2 of 3)



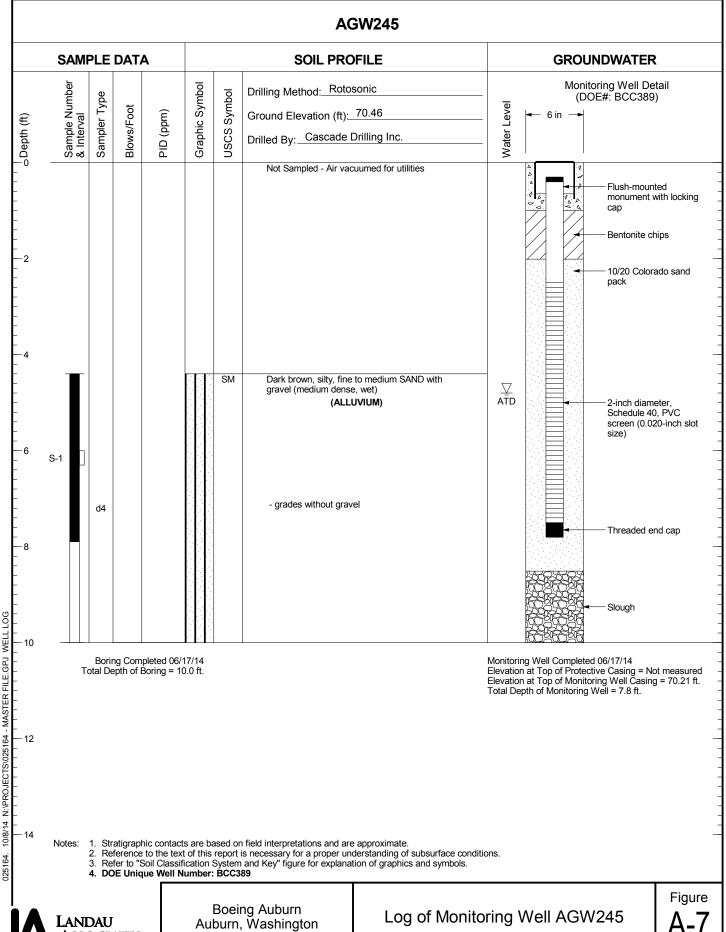


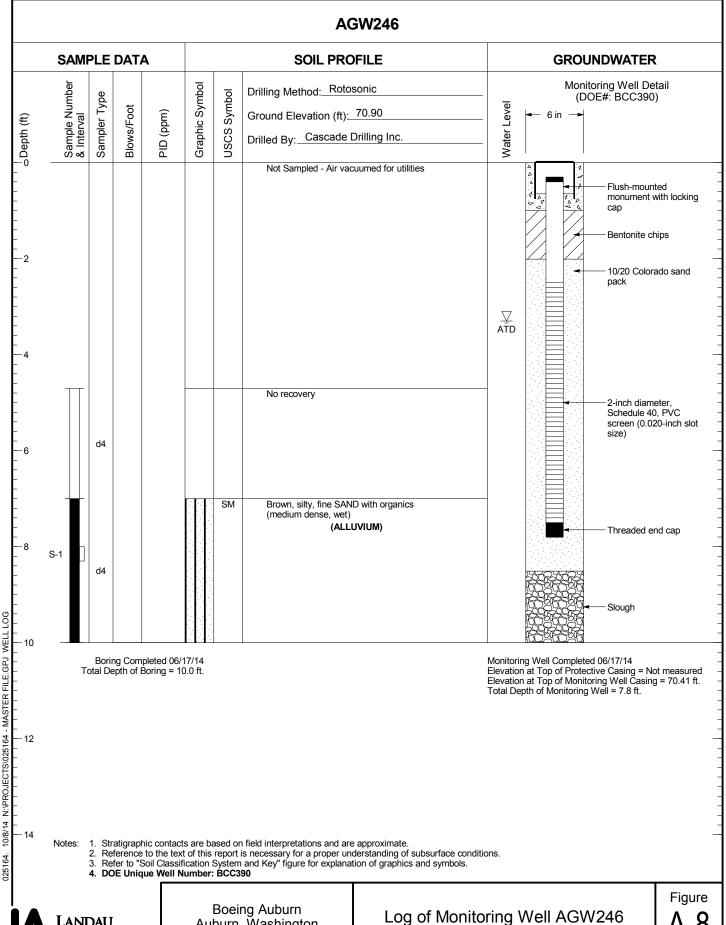
(1 of 2)





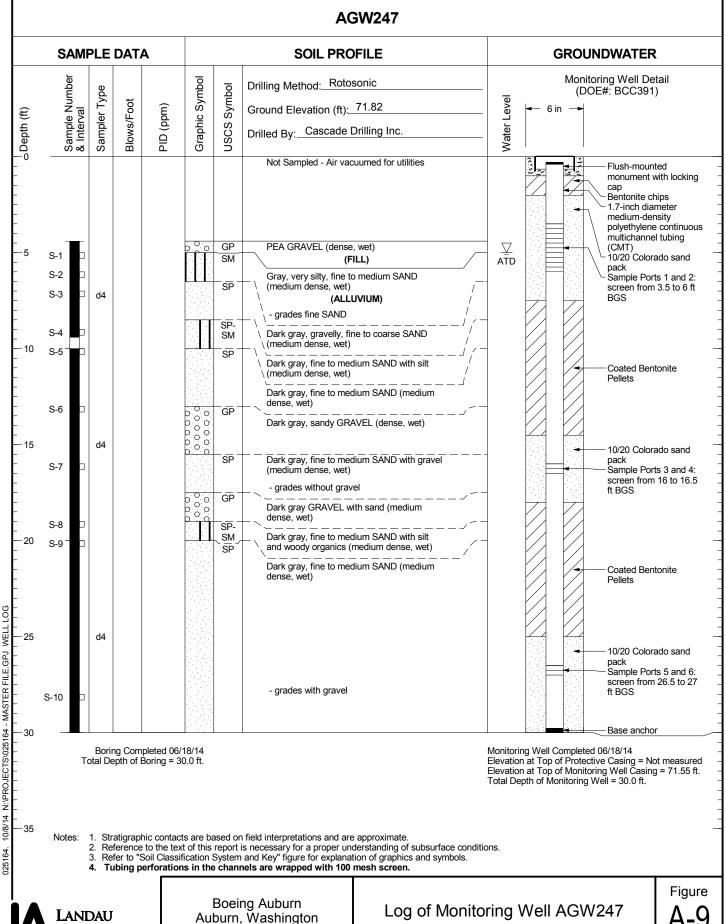
LANDAU **ASSOCIATES**  Auburn, Washington

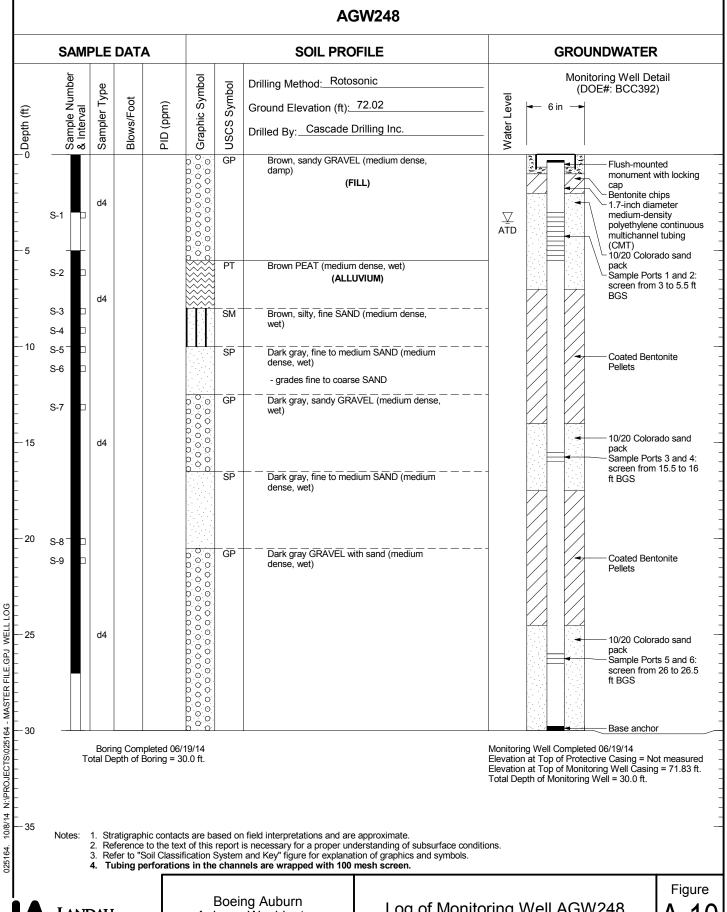






Auburn, Washington

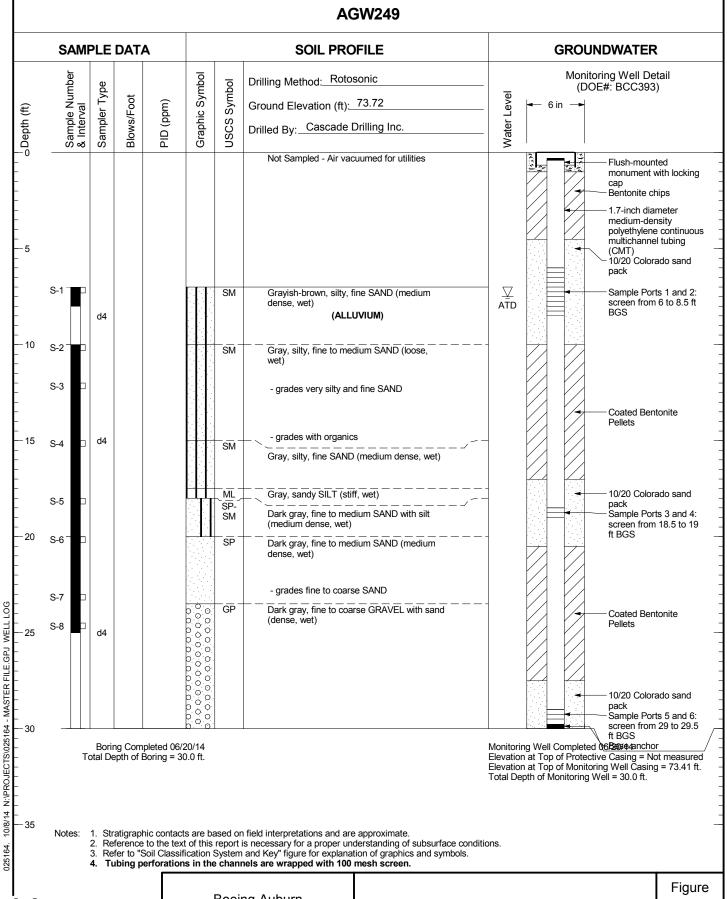






Auburn, Washington

Log of Monitoring Well AGW248

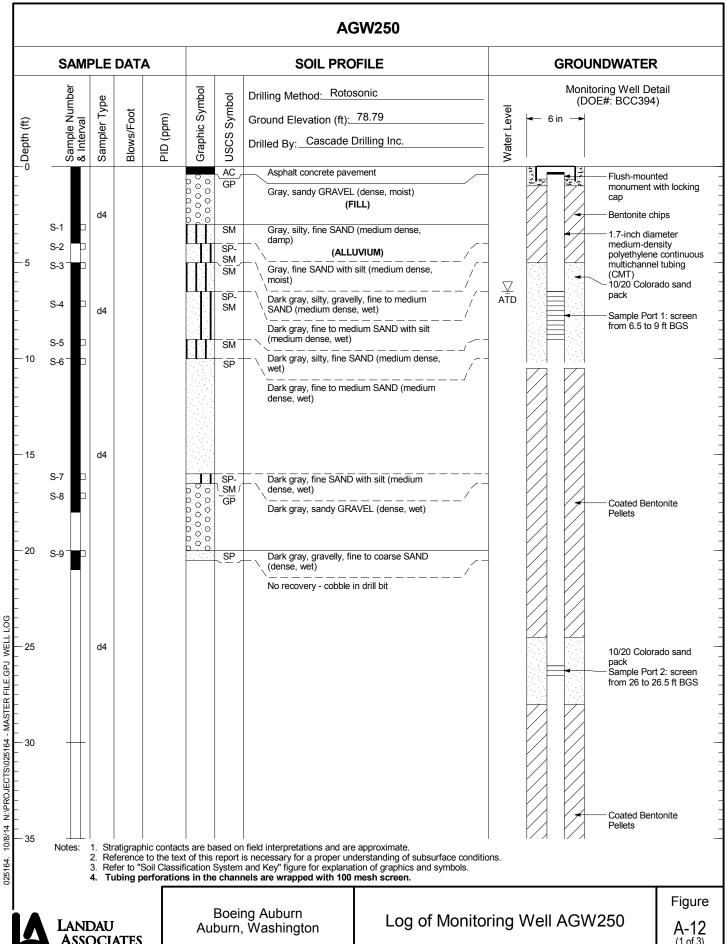




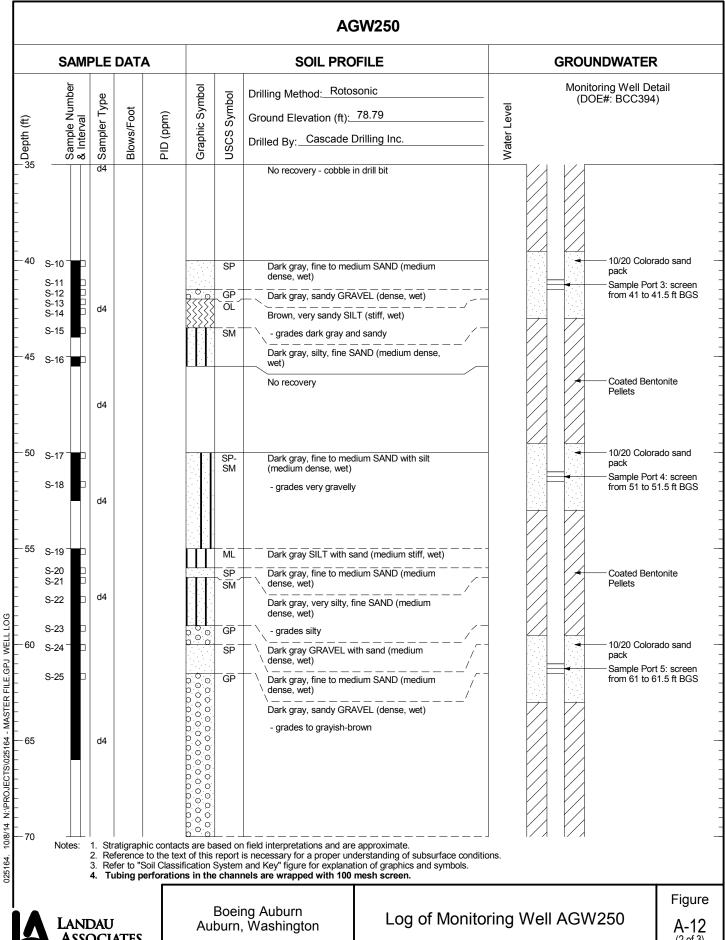
Boeing Auburn Auburn, Washington

Log of Monitoring Well AGW249

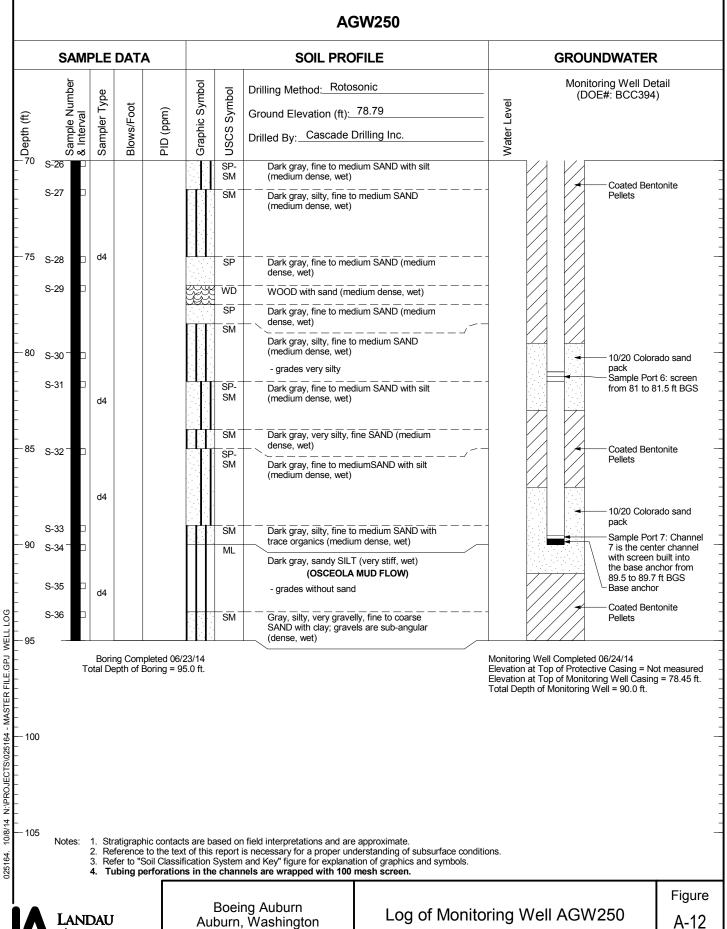
A-11



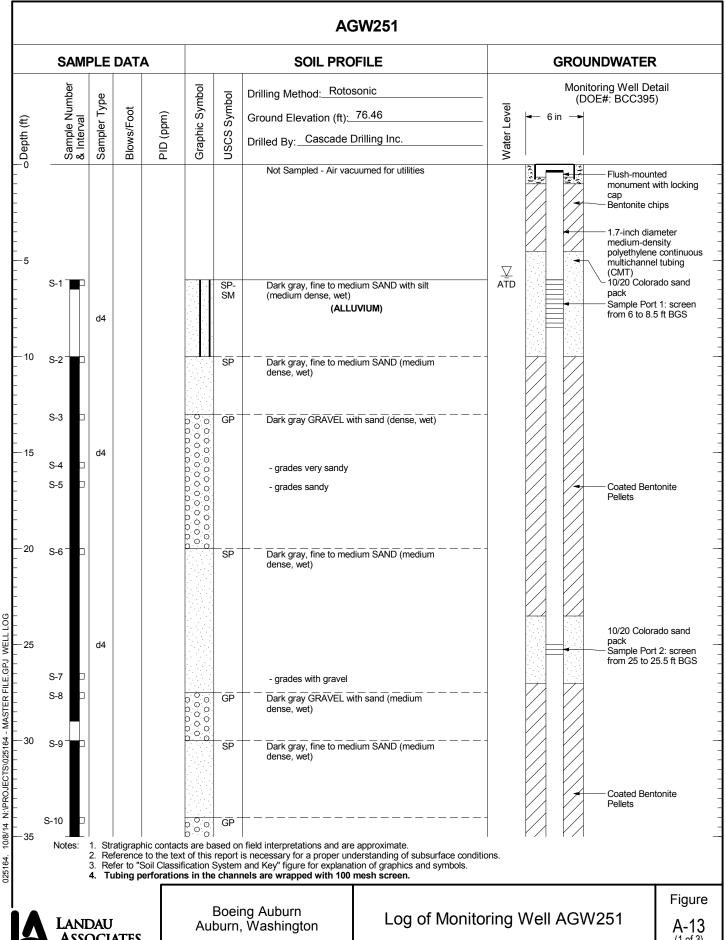
(1 of 3)



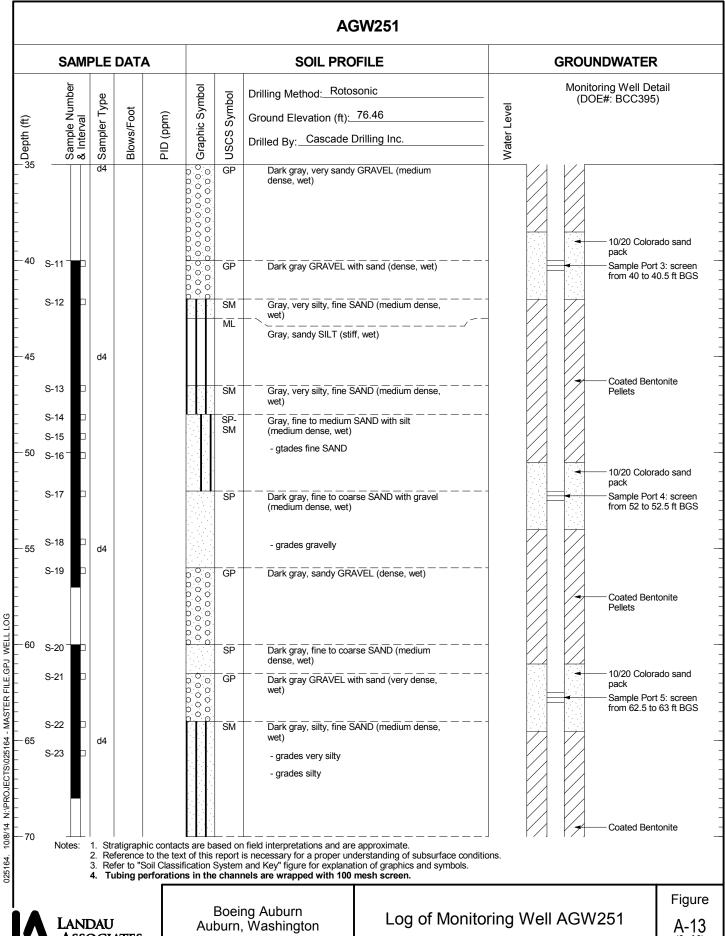
(2 of 3)



(3 of 3)

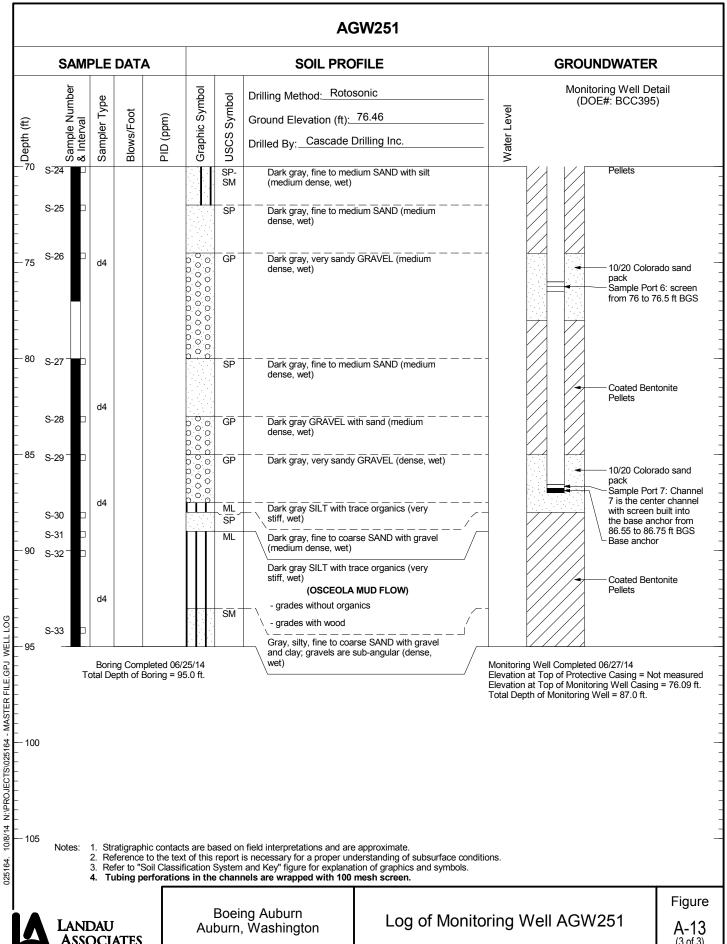


(1 of 3)





(2 of 3)



(3 of 3)

### Direct-Push Boring Logs: ASB0230 through ASB0243

### Soil Classification System

### **MAJOR DIVISIONS**

### **USCS** GRAPHIC LETTER SYMBOL SYMBOL (1)

### **TYPICAL DESCRIPTIONS** (2)(3)

|                                                                                           | DIVISIONS                                  |                                        | STINIDOL 3 | INDOL                                                                                        | DESCRIPTIONS                                                                                                   |
|-------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                           | GRAVEL AND                                 | CLEAN GRAVEL                           |            | GW                                                                                           | Well-graded gravel; gravel/sand mixture(s); little or no fines                                                 |
| SOIL<br>rial is<br>size)                                                                  | GRAVELLY SOIL                              | (Little or no fines)                   |            | GP                                                                                           | Poorly graded gravel; gravel/sand mixture(s); little or no fines                                               |
| 1 202                                                                                     | (More than 50% of coarse fraction retained | GRAVEL WITH FINES                      |            | GM                                                                                           | Silty gravel; gravel/sand/silt mixture(s)                                                                      |
| GRAINED<br>50% of mat<br>No. 200 siev                                                     | on No. 4 sieve)                            | (Appreciable amount of fines)          |            | GC                                                                                           | Clayey gravel; gravel/sand/clay mixture(s)                                                                     |
|                                                                                           | SAND AND                                   | CLEAN SAND                             |            | SW                                                                                           | Well-graded sand; gravelly sand; little or no fines                                                            |
| SSE-<br>than<br>than                                                                      | SANDY SOIL                                 | (Little or no fines)                   |            | SP                                                                                           | Poorly graded sand; gravelly sand; little or no fines                                                          |
| COARSE-<br>(More than<br>larger than I                                                    | (More than 50% of coarse fraction passed   | SAND WITH FINES (Appreciable amount of |            | SM                                                                                           | Silty sand; sand/silt mixture(s)                                                                               |
| Ω = <u>α</u>                                                                              | through No. 4 sieve)                       | fines)                                 |            | SC                                                                                           | Clayey sand; sand/clay mixture(s)                                                                              |
| SOIL of than transize)                                                                    | SILTA                                      | ND CLAY                                |            | ML                                                                                           | Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity |
| SC<br>% of<br>ler th<br>size                                                              | _                                          |                                        | CL         | Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay |                                                                                                                |
| FINE-GRAINED SOIL<br>(More than 50% of<br>material is smaller than<br>No. 200 sieve size) | (Liquid limit                              | t less than 50)                        |            | OL                                                                                           | Organic silt; organic, silty clay of low plasticity                                                            |
| RAIN<br>e than<br>al is sm<br>200 sie                                                     | SILTA                                      | ND CLAY                                |            | MH                                                                                           | Inorganic silt; micaceous or diatomaceous fine sand                                                            |
| JE-GRAI<br>(More tha<br>laterial is<br>No. 200 s                                          | _                                          |                                        |            | СН                                                                                           | Inorganic clay of high plasticity; fat clay                                                                    |
| A E                                                                                       | (Liquid limit o                            |                                        | ОН         | Organic clay of medium to high plasticity; organic silt                                      |                                                                                                                |
|                                                                                           | HIGHLY OF                                  | RGANIC SOIL                            |            | PT                                                                                           | Peat; humus; swamp soil with high organic content                                                              |

**OTHER MATERIALS** 

### **GRAPHIC LETTER** SYMBOL SYMBOL

### TYPICAL DESCRIPTIONS

| PAVEMENT | AC or PC                                       | Asphalt concrete pavement or Portland cement pavement |
|----------|------------------------------------------------|-------------------------------------------------------|
| ROCK     | RK                                             | Rock (See Rock Classification)                        |
| WOOD     | WD WD                                          | Wood, lumber, wood chips                              |
| DEBRIS   | ⟨ <b>/</b> ⟨ <b>/</b> ⟨ <b>/</b> ⟨ <b>/</b> DB | Construction debris, garbage                          |

- Notes: 1. USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
  - 2. Soil descriptions are based on the general approach presented in the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the Standard Test Method for Classification of Soils for Engineering Purposes, as outlined in ASTM D 2487.
  - 3. Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:

 $\label{eq:primary constituent:} Secondary Constituents: $ > 50\% - "GRAVEL," "SAND," "SILT," "CLAY," etc. $ > 30\% and $ \leq 50\% - "very gravelly," "very sandy," "very silty," etc. $ > 15\% and $ \leq 30\% - "gravelly," "sandy," "silty," etc. $ < 5\% and $ \leq 15\% - "with gravel," "with sand," "with silt," etc. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted. $ < 5\% - "with gravel," "with trace gravel," "with trace gravel," "with trace gravel," "with trace gravel," "with gravel," "$ 

4. Soil density or consistency descriptions are based on judgement using a combination of sampler penetration blow counts, drilling or excavating conditions, field tests, and laboratory tests, as appropriate.

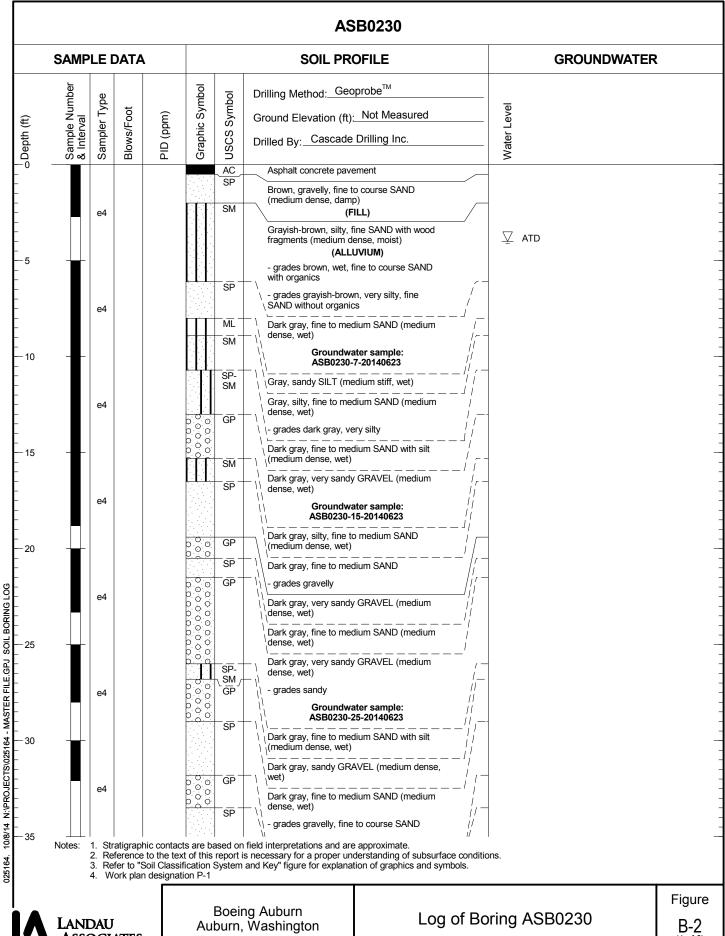
### Drilling and Sampling Key Field and Lab Test Data SAMPLER TYPE SAMPLE NUMBER & INTERVAL Code Description Code Description 3.25-inch O.D., 2.42-inch I.D. Split Spoon PP = 1.0Pocket Penetrometer, tsf TV = 0.5 b 2.00-inch O.D., 1.50-inch I.D. Split Spoon Sample Identification Number Torvane, tsf Shelby Tube PID = 100 Photoionization Detector VOC screening, ppm С Recovery Depth Interval d Grab Sample W = 10Moisture Content, % Single-Tube Core Barrel D = 120Dry Density, pcf Sample Depth Interval Double-Tube Core Barrel -200 = 60 Material smaller than No. 200 sieve, % 2.50-inch O.D., 2.00-inch I.D. WSDOT GS Grain Size - See separate figure for data Portion of Sample Retained 3.00-inch O.D., 2.375-inch I.D. Mod. California ALAtterberg Limits - See separate figure for data for Archive or Analysis Other - See text if applicable GT Other Geotechnical Testing 300-lb Hammer, 30-inch Drop Chemical Analysis 1 CA 2 140-lb Hammer, 30-inch Drop Groundwater Pushed Approximate water level at time of drilling (ATD) Vibrocore (Rotosonic/Geoprobe) Approximate water level at time other than ATD Other - See text if applicable



Boeing Auburn Auburn, Washington

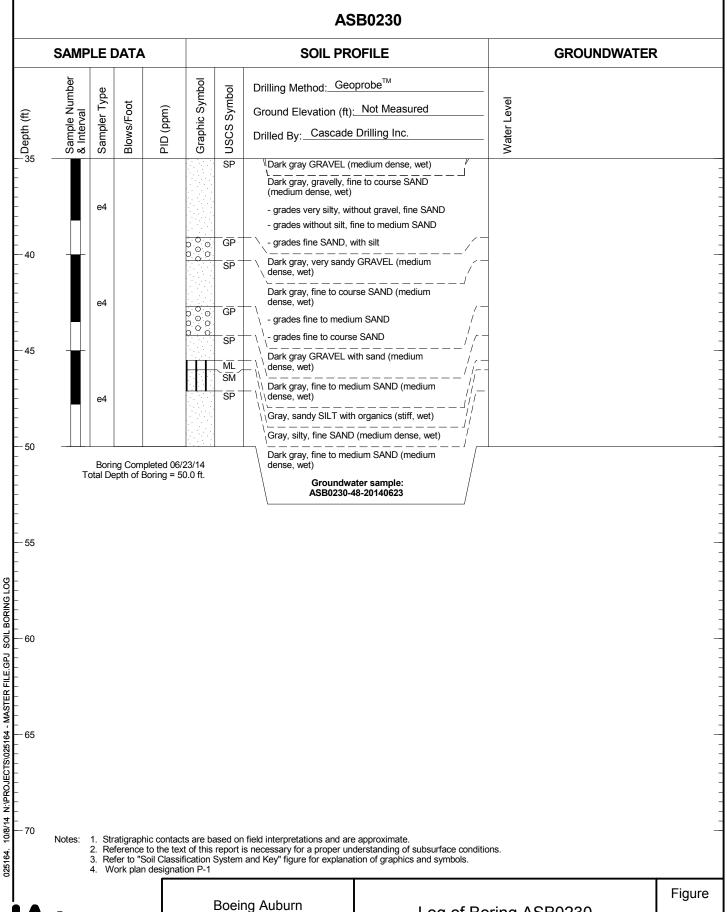
Soil Classification System and Key

Figure





(1 of 2)

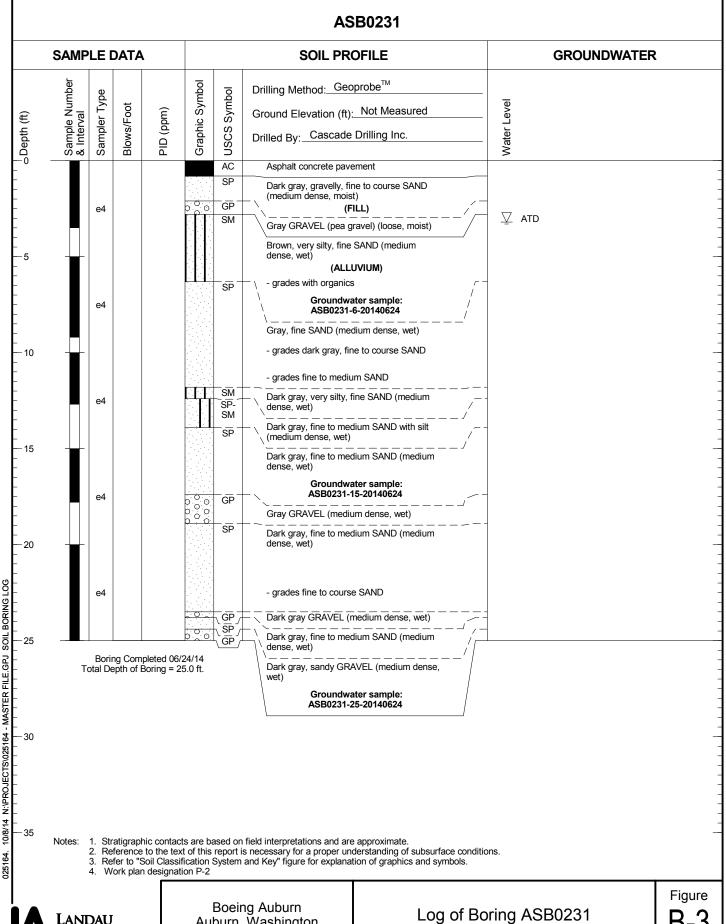




Boeing Auburn Auburn, Washington

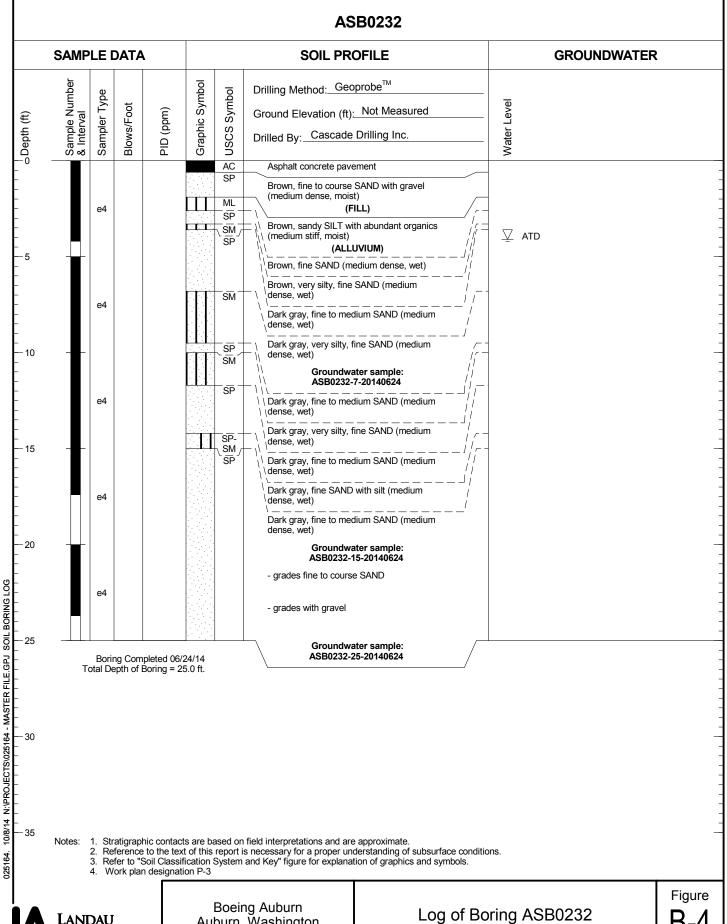
Log of Boring ASB0230

B-2 (2 of 2)





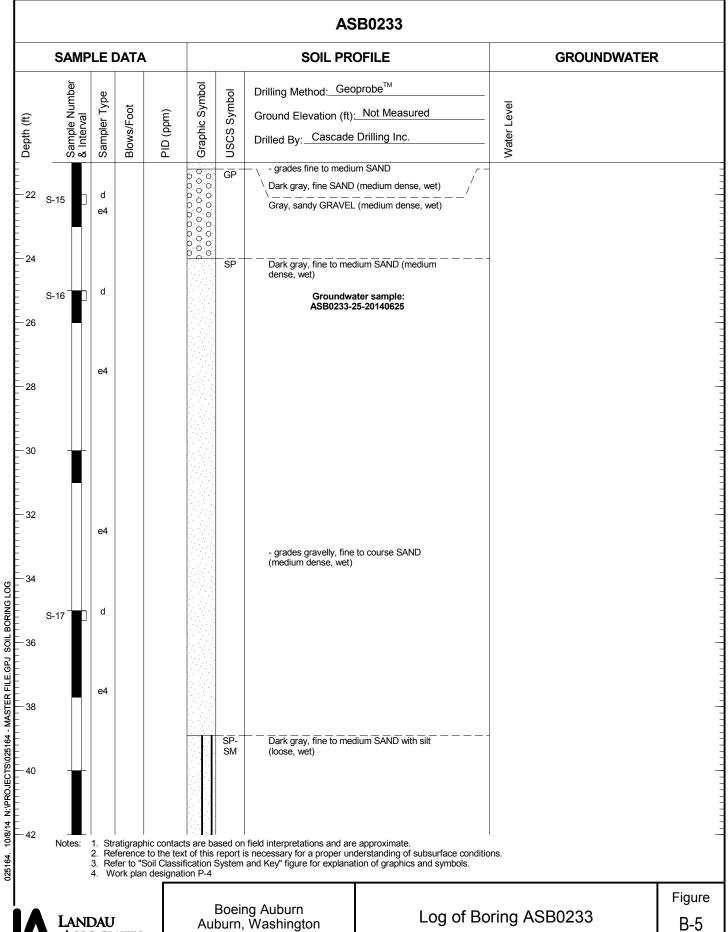
Auburn, Washington



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| SAMF                        | LE [                               | DATA       |                        |                                       |                 | SOIL PROFILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GROUNDWA    | ATER |
|-----------------------------|------------------------------------|------------|------------------------|---------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|
| Sample Number<br>& Interval | Sampler Type                       | Blows/Foot | PID (ppm)              | Graphic Symbol                        | USCS Symbol     | Drilling Method: Geoprobe™  Ground Elevation (ft): Not Measured  Drilled By: Cascade Drilling Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Water Level |      |
|                             |                                    |            |                        |                                       | AC              | Asphalt concrete pavement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |
| 1                           | e4                                 |            |                        |                                       | GP              | Grayish-brown, sandy GRAVEL (medium<br>dense, damp) (FILL) - grades moist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |
| S-1                         | d                                  |            |                        | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | PT              | Dark brown PEAT with silt (soft to medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _           |      |
| ,<br>S-2 ☐                  | d                                  |            |                        |                                       | SM              | stiff, moist)  (ALLUVIUM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |
| S-3                         | d<br>e4                            |            |                        |                                       | SP-<br>SM       | Grayish-brown, silty, fine SAND with organics (medium dense, wet)  Dark gray, fine to medium SAND (medium dense, wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |
| S-4                         | d                                  |            |                        |                                       | SM              | Brown, fine to medium SAND with silt and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |      |
| S-5                         | d                                  |            |                        |                                       | SP-<br>SM       | organics (medium dense, wet)  The state of t |             |      |
| 0 s-6                       | d                                  |            |                        |                                       | SM              | dense, wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |      |
| S-7                         | d                                  |            |                        |                                       | SP-<br>SM       | Groundwater sample:  ASB0233-9-20140625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |
| S-8 ]<br>12 S-9 ]           | d                                  |            |                        |                                       | SP<br>SM        | Dark gray, fine SAND with silt (medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |      |
| S-10                        | e4<br>d                            |            |                        |                                       |                 | Brown, silty, fine to medium SAND (medium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |
| S-11                        | d                                  |            |                        |                                       |                 | Dark gray, fine to course SAND (medium dense, wet)  Gray, silty, fine SAND (medium dense, wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |      |
| 16                          | d                                  |            |                        |                                       | SM<br>SP-<br>SM | - grades dark gray // - Groundwater sample: // - ASB0233-15-20140625 //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |      |
| S-12                        | e4                                 |            |                        |                                       | SM<br>SP-<br>SM | Dark gray, very silty, fine SAND (medium // dense, wet) // Dark gray, fine SAND with silt (medium // dense, wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | . –         |      |
| S-13                        | d                                  |            |                        |                                       | SP              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _           |      |
| 0 S-14                      | d                                  |            |                        |                                       |                 | \ \ Dark grayish-brown, fine SAND with silt \ (medium dense, wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |      |
| Notes:                      | <ol> <li>Re</li> <li>Re</li> </ol> | ference to | the text<br>il Classif | t of this re<br>ication Sy            | port is         | field interpretations and are approximate. s necessary for a proper understanding of subsurface cond and Key" figure for explanation of graphics and symbols.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | litions.    |      |

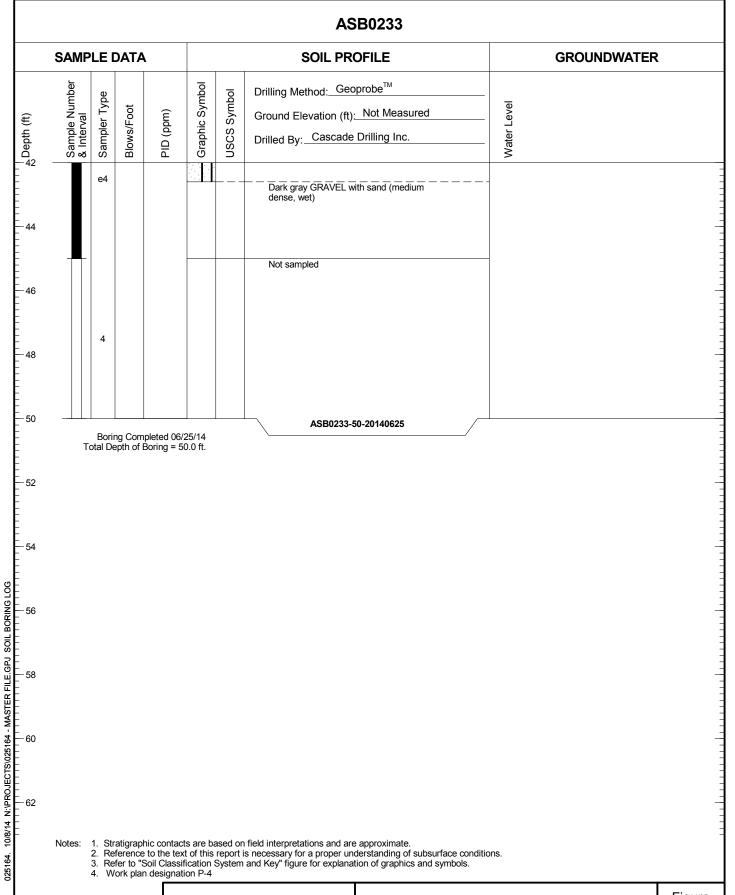






Auburn, Washington

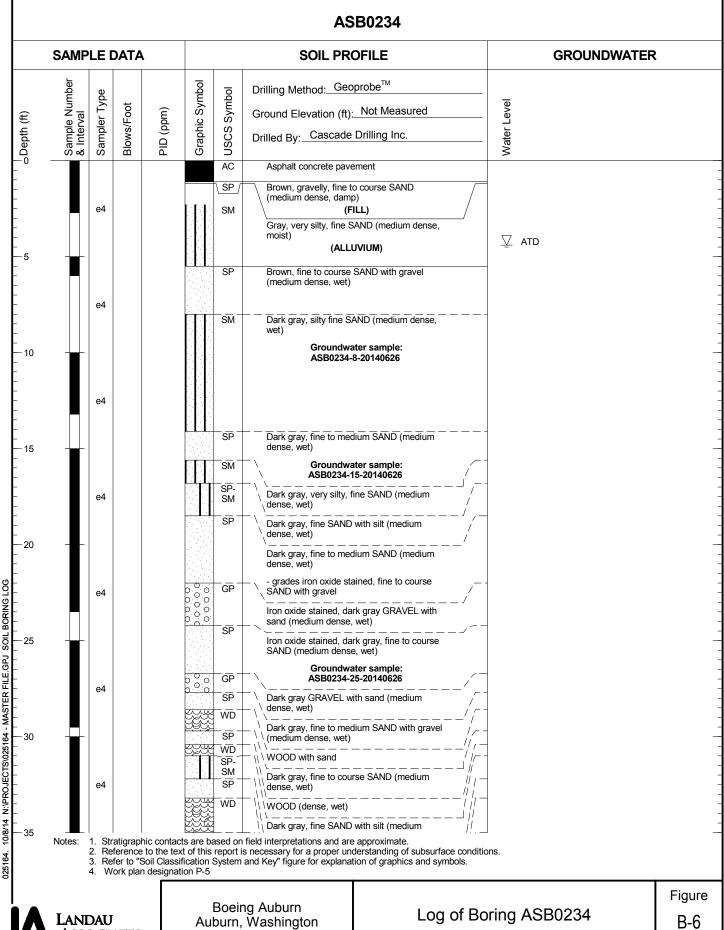
(2 of 3)



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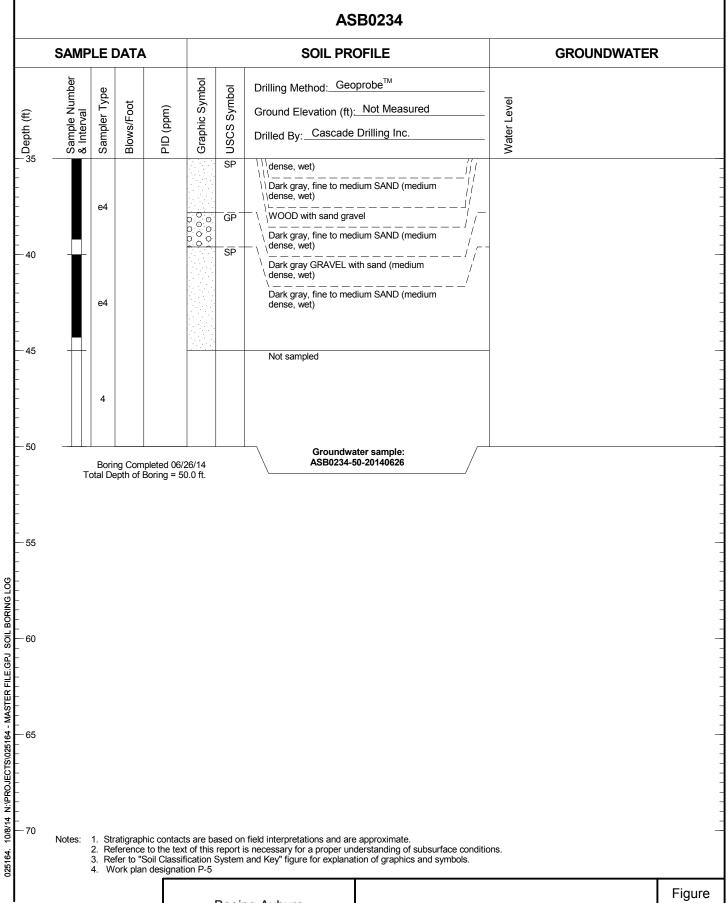
Figure B-5 (3 of 3)



(1 of 2)

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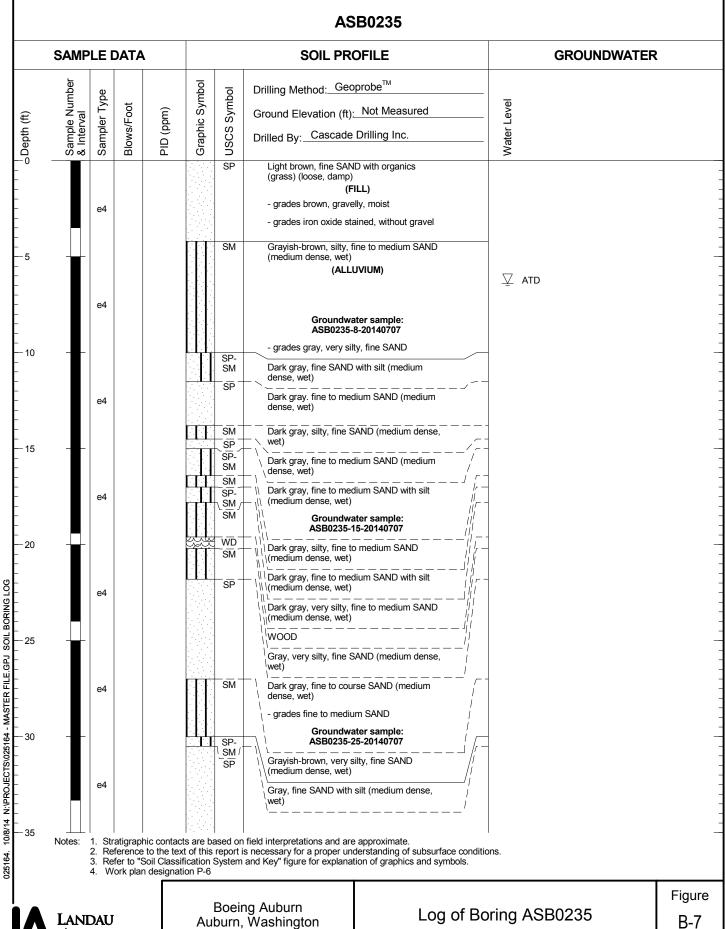




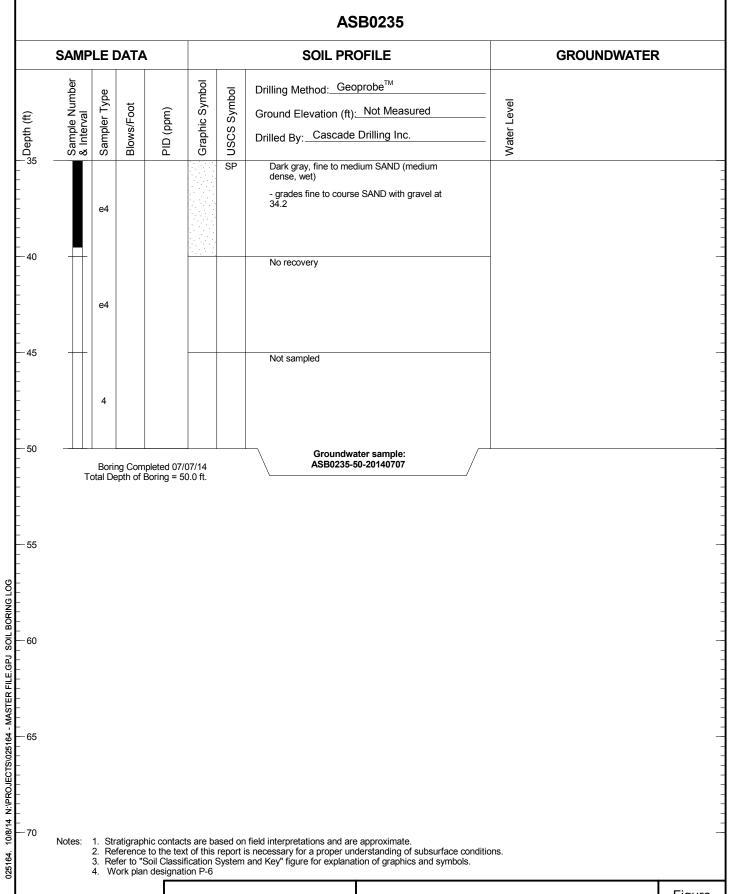
Boeing Auburn Auburn, Washington

Log of Boring ASB0234

B-6 (2 of 2)







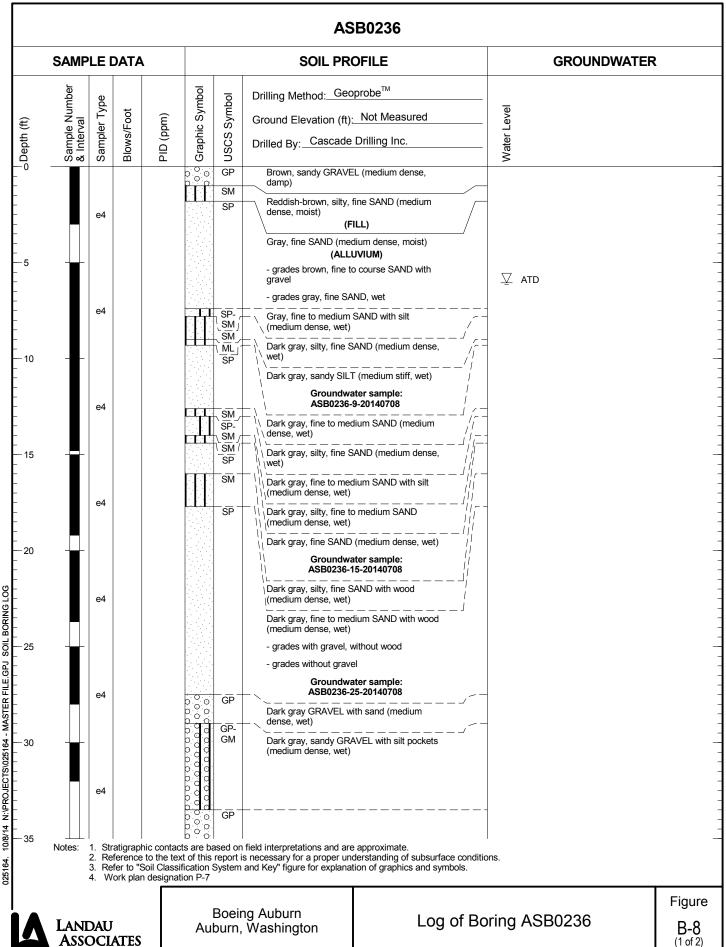
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Boeing Auburn Auburn, Washington

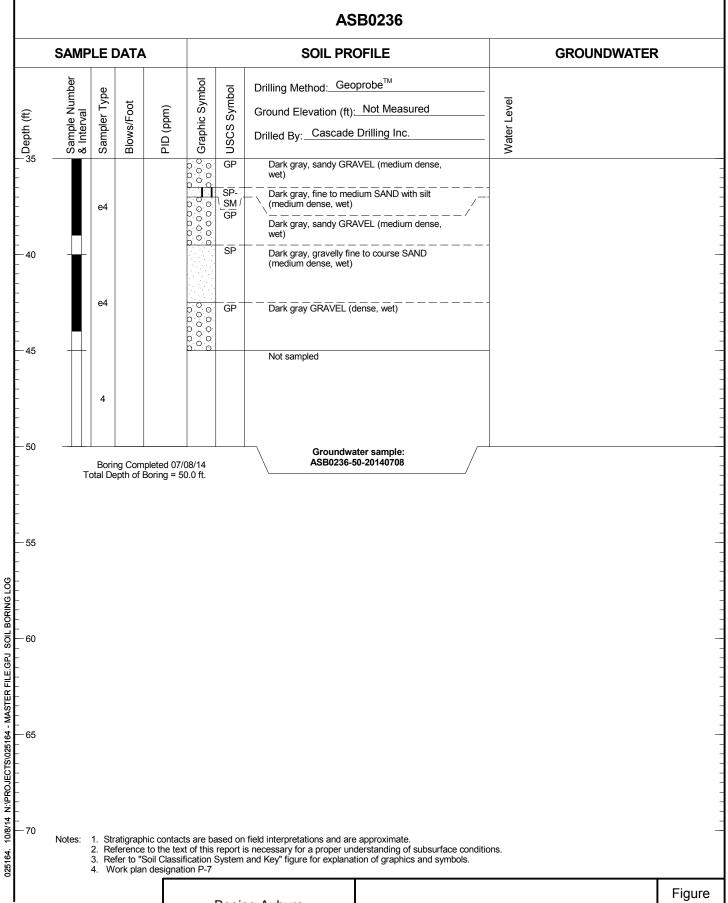
Log of Boring ASB0235

Figure

B-7 (2 of 2)





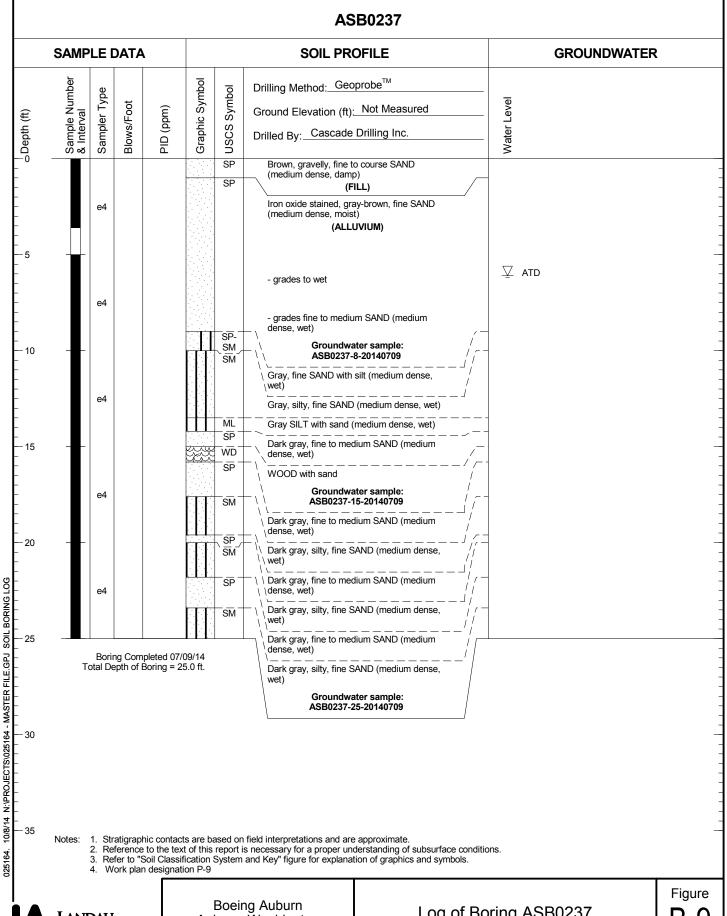




Boeing Auburn Auburn, Washington

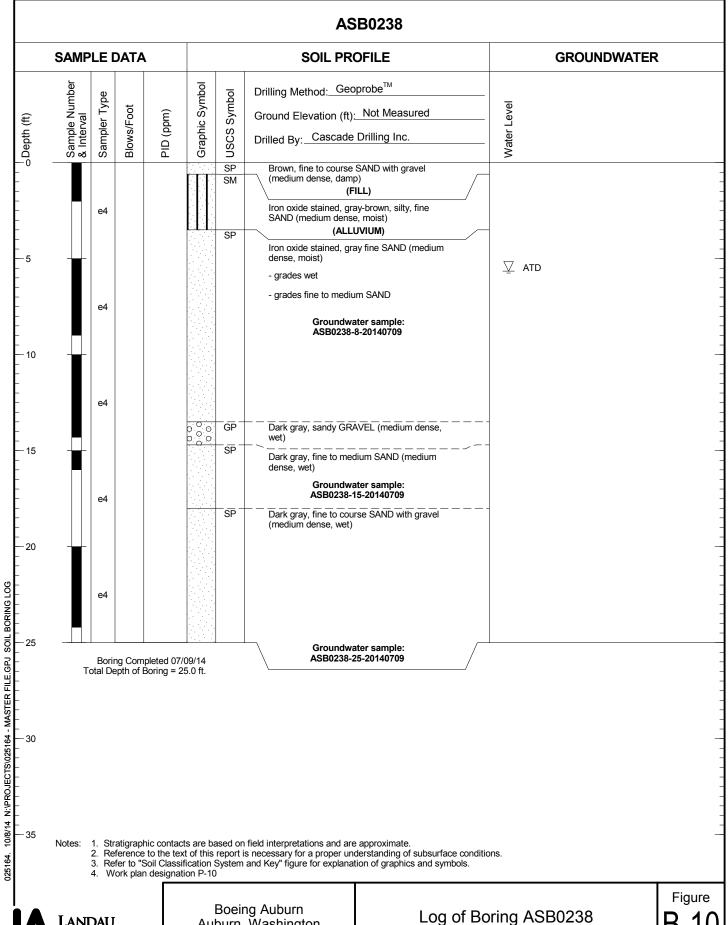
Log of Boring ASB0236

B-8 (2 of 2)

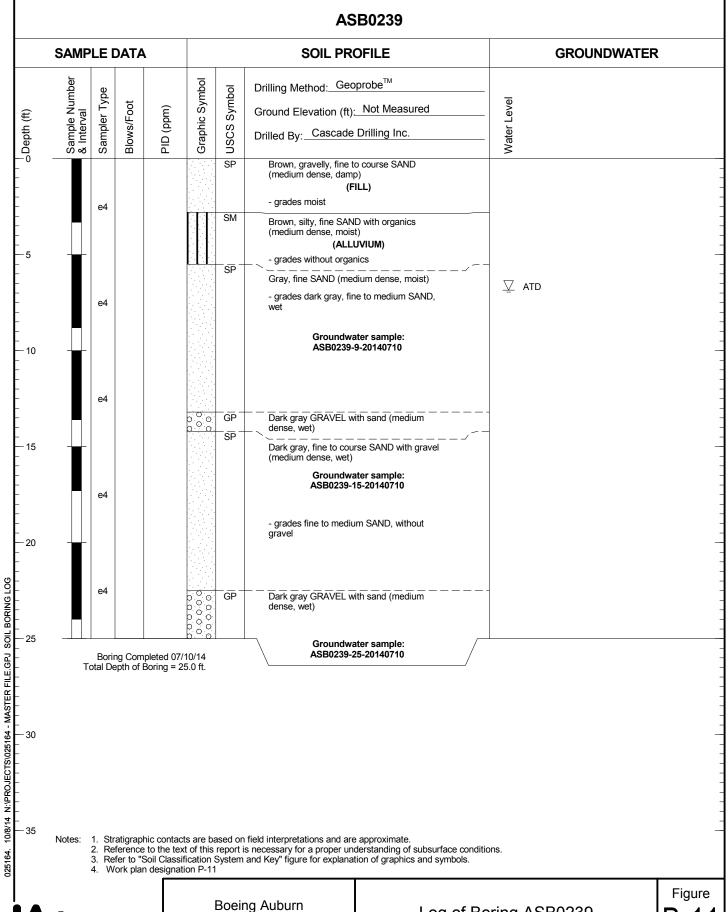


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Log of Boring ASB0237

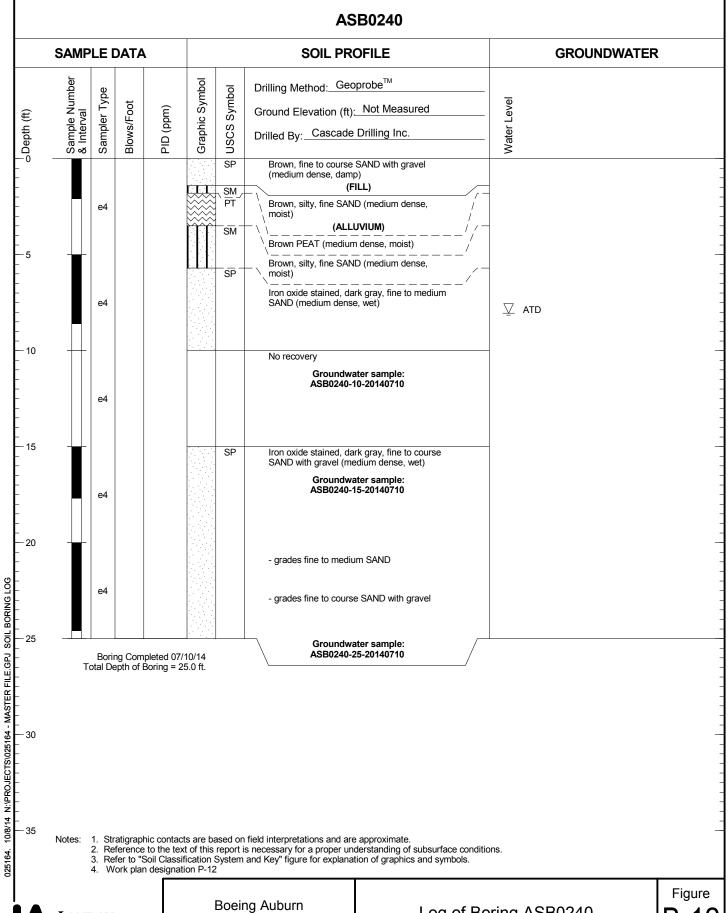






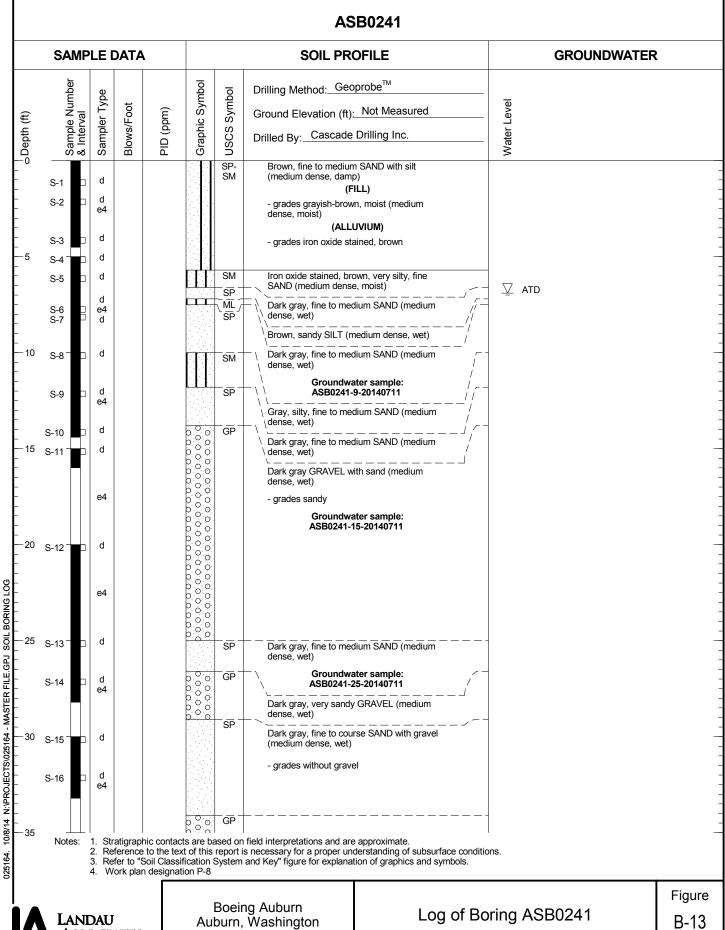


Log of Boring ASB0239



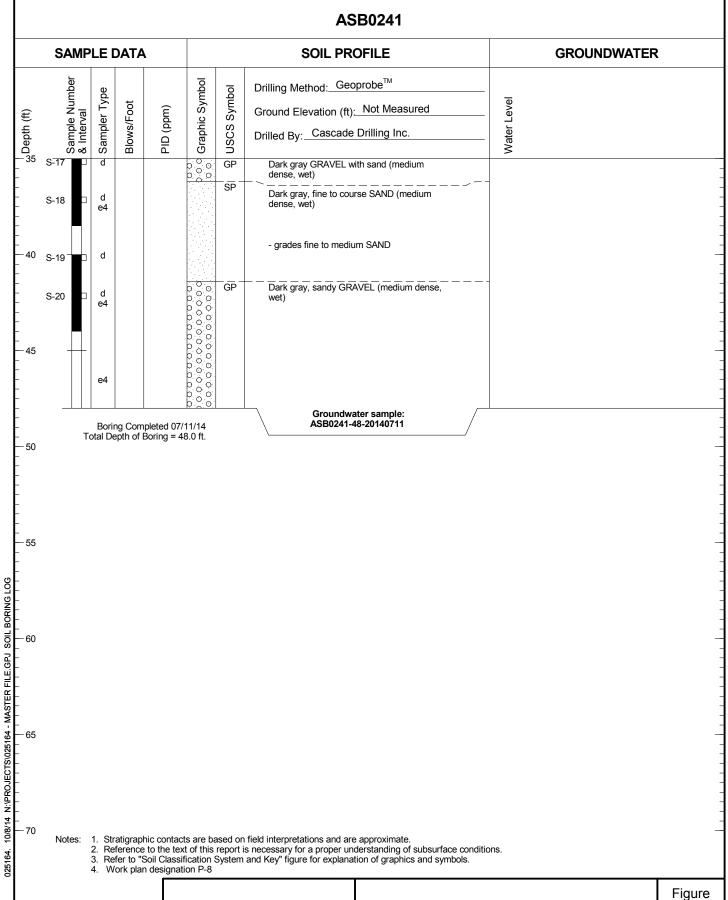


Log of Boring ASB0240





(1 of 2)



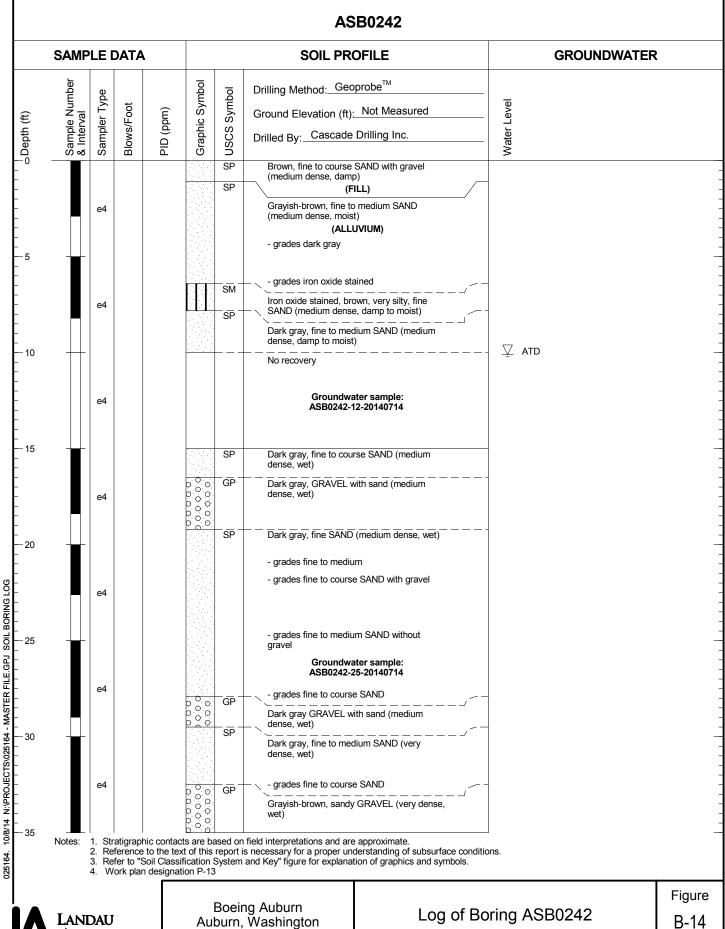


Boeing Auburn Auburn, Washington

Log of Boring ASB0241

rigure

B-13 (2 of 2)



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Auburn, Washington

(1 of 2)

|            | SAMP                     | LE [                                | DATA                | 1                         |                  |             | SOIL PROFILE                                                                                                                                                               | GROUNDWATER |  |
|------------|--------------------------|-------------------------------------|---------------------|---------------------------|------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| 35         | Sample Number & Interval | Sampler Type                        | Blows/Foot          | PID (ppm)                 | Graphic Symbol   | USCS Symbol | Drilling Method: Geoprobe™  Ground Elevation (ft): Not Measured  Drilled By: Cascade Drilling Inc.  Not sampled                                                            | Water Level |  |
|            |                          | 4                                   |                     |                           |                  |             |                                                                                                                                                                            |             |  |
|            |                          |                                     |                     |                           |                  |             |                                                                                                                                                                            |             |  |
|            | T                        | Borii<br>otal De                    | ng Com<br>epth of E | pleted 07/<br>Boring = 48 | 14/14<br>3.0 ft. |             | Groundwater sample:<br>ASB0242-48-20140714                                                                                                                                 |             |  |
| 5          |                          |                                     |                     |                           |                  |             |                                                                                                                                                                            |             |  |
| 0          |                          |                                     |                     |                           |                  |             |                                                                                                                                                                            |             |  |
| 65         |                          |                                     |                     |                           |                  |             |                                                                                                                                                                            |             |  |
| <b>7</b> 0 | Notes:                   | <ol> <li>Str</li> <li>Re</li> </ol> | atigraph            | nic contact               | s are b          | ased on     | n field interpretations and are approximate.<br>s necessary for a proper understanding of subsurface condition<br>and Key" figure for explanation of graphics and symbols. | ons         |  |

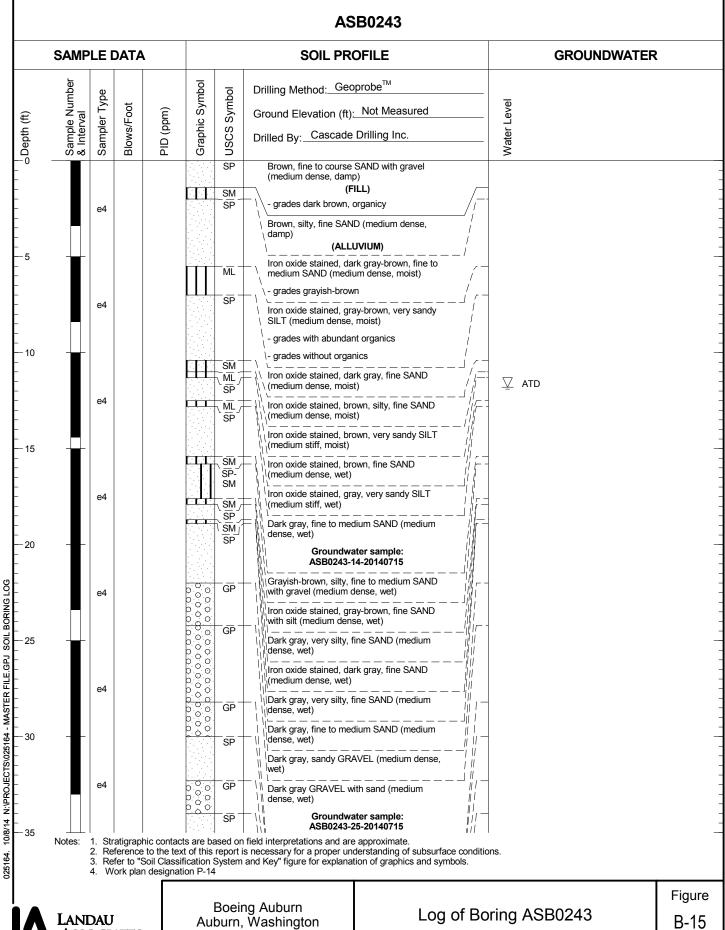
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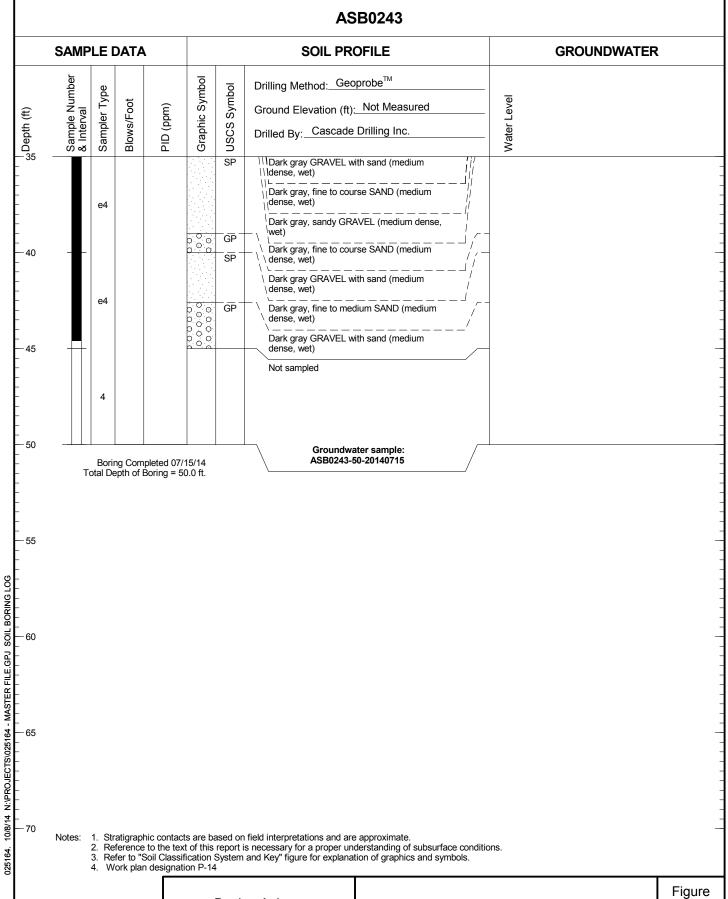
Log of Boring ASB0242

Figure

B-14 (2 of 2)



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Boeing Auburn Auburn, Washington

Log of Boring ASB0243

B-15 (2 of 2)