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August 31, 2015

Mr. Jason Metzger
Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE, Suite 1054 East
Atlanta, Georgia 30334

Subject: **Submittal of Fourth VIRP Progress Report**
Response to Comment Letter Dated June 29, 2015 for
Third VIRP Progress Report – February 18, 2015
AMC International, HSI No. 10405
310 Brookhollow Industrial Boulevard, Dalton, Whitfield County, Georgia

Dear Mr. Metzger:

EarthCon Consultants, Inc. (EarthCon), on behalf of our client Apollo Technologies, Inc. (Apollo) is pleased to submit the Fourth Voluntary Investigation and Remediation Plan (VIRP) Progress Report for the AMC International facility (HSI No. 10405) located in Dalton, Whitfield County, Georgia (Facility). In addition, we are also providing a response to the Georgia Environmental Protection Division (EPD) comment letter dated June 29, 2015 on the Third VIRP Status Report submitted by Apollo, dated February 18, 2015.

We note at the outset that EPD's comments were received approximately one week after implementation of previously planned field activities. Therefore, not all of EPD's comments could be addressed during this last monitoring period. Set forth below are EPD's comments followed by our responses.

EPD Comment 1: EPD concurs that site soils have been vertically and horizontally delineated to Type 1 risk reduction standards (RRS) based on the results from the 2014 soil sampling activities.

Apollo Response: Comment noted.

EPD Comment 2: Based on both the potentiometric map shown in Figure 6 and the groundwater sampling results, further horizontal delineation will be required downgradient of MW-23.

Apollo Response: An onsite meeting was held on August 5, 2015 with representatives of Apollo, EarthCon, and EPD. Detections of regulated substances in offsite bedrock monitoring well MW-23 are low; however, concentrations are above delineation criteria. MW-23 is a bedrock well screened across water-bearing fractures. As discussed with EPD during the August 5, 2015 onsite meeting, a water well survey to determine whether these concentrations may have an impact to a downgradient receptor was conducted, which included identifying nearby residences and contacting the local utility company to confirm the residences were connected to city water. Some additional work is needed on the well survey before we can rule out the need for additional delineation, and we expect to conclude this work shortly. Further information is provided in Section 4.3 (page 9) of the Fourth VIRP Progress Report.

EPD Comment 3: Please note that the completion of horizontal delineation downgradient of MW-23 and in bedrock downgradient of the Dobbs GWRS Area is due in the next progress report in accordance with the VRP application checklist. EPD would like to work with AMC's Consultant in attempting to locate a suitable and accessible location for the installation of a bedrock well along Focus Drive, equidistant from DMW-11 and OBG-W1/MW-22D. We are available to meet at the site and assist in the scoping of a potential location at any time.

Apollo Response: An onsite meeting was held on August 5, 2015 with representatives of Apollo, EarthCon, and EPD. A well cannot be installed in a location equidistant from DMW-11 and OBGW1/MW-22D due to surface water collecting in this area. Potential locations along Focus Drive were discussed. Based on tax parcel information, this area is heavily industrial and if detections were found in fractured bedrock, it would be difficult to determine where those constituents originated. Additionally, nesting a bedrock well in the location of DMW-11 was discussed. However, the same issue arises that if detections were found in fractured bedrock, it would be difficult to determine where those constituents originated. Therefore, a water well survey was conducted to determine whether the concentrations in the Dobbs Area would have an impact to a downgradient receptor. The well survey included identifying nearby residences and contacting the local utility company to confirm the residences were connected to city water. Some additional work is needed on the well survey before we can rule out the need for additional delineation, and we expect to conclude this work shortly. Further information is provided in Section 4.3 (page 11) of the Fourth VIRP Progress Report.

EPD Comment 4: In reviewing the groundwater data for the Dobbs System wells and the downgradient well concentrations it does not appear that the treatment system has "pulled" contamination downgradient and offsite. Per the progress report, the recovery wells are not adequately designed to effectively capture the plume which extends off-property and still not completely delineated. Consequently EPD does not concur with turning off this system and looks forward to further interpretation of contaminant transport in the area based on additional, strategically located wells.

Apollo Response: Comment noted. This comment is addressed in Section 2.3 Groundwater Remediation Systems and Section 4.3 Plume Stability and Extent of Groundwater Impacts, Dobbs Area.

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EPD Comment 5: From a review of Table 1 – Monitoring Well Construction Details and the Field Forms in Appendix C, EPD noted discrepancies between the well depths and screen intervals (Table 1) and the well depths and subsequent pump placements recorded in the field. The table below highlights some of these discrepancies.

Well ID	Total Depth* (ft bgs)	Total Depth** (ft bgs)	Depth to Water* (ft bgs)	Screen Interval** (ft bgs)	Pump Placement* (ft bgs)
AMW-1	28.70	28.90	21.82	14.75-24.75	25
DMW-1***	54.06	53.70	39.66	45-55	46.5
OBG-W7	46.87	69	42.05	49-69	44
DMW-9	47.75	65	39.12	45-65	44
AMW-12	45.5	48	28.8	38-48	37
MW-22D	67.82	64.56	29.12	54-64	Not Provided
MW-23	60.19	57.29	30.56	47-57	Not Provided

NOTES: *Recorded in Field; ** Table 1; * High Turbidity**

Based on the table above and the turbidity readings in some of the wells sampled, consideration should be given to redeveloping some wells prior to the next sampling event. In addition, for some of the wells highlighted above, the pumps appear to have been placed too high in the water column. Please review all of the wells sampled to determine if the pump placement relative to screen interval was correct.

Apollo Response: Comment noted. The following monitoring wells were redeveloped in March 2015: OBG-W7, DMW-1, DMW-5, DMW-6, AMW-8, AMW-14, AMW-20, and ARW-2. For future sampling events, EarthCon will review well screen intervals to confirm appropriate pump placement.

EPD Comment 6: In reviewing the groundwater data for wells DMW-12 and MW-23, EPD is in general agreement with turning off ARW-2 for a limited period of time as part of the full evaluation of the groundwater treatment system. As noted, the wells would be shut down during the implementation of ISCO. What is not known is when ISCO will be implemented since it is not shown in the milestone schedule. It is anticipated that ISCO will be implemented in the near future (see comment # 8).

Apollo Response: Well ARW-2 will be turned off to facilitate evaluation of the groundwater remediation system. A schedule for initial ISCO implementation is included on Table 9 in the attached Fourth VIRP Progress Report.

EPD Comment 7: Please report groundwater results in both tables and figures in the same units as the analytical reports, which appear to be micrograms per liter (ug/L).

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Apollo Response: The laboratory analytical data for the March 2015 and June 2015 sampling events are reported in mg/L. Apollo has reported the groundwater results in both tables and on figures in mg/L.

EPD Comment 8: The reports contain isoconcentration figures for multiple constituents of concern (COCs). The isoconcentration maps provided are inaccurately drawn since they did not account for numerous wells which were not sampled, but have previously had elevated concentrations. Please consider this fact when drawing isoconcentration figures for future reporting. In addition, please make the following changes in future reports:

a. Separate isoconcentration figures for each of the COCs should be developed for the overburden and the partially weathered bedrock and bedrock.
b. Please add 1,1-dichloroethene figures for both the overburden and the partially weathered bedrock and bedrock in subsequent reporting.
c. For the RRS isoconcentration contour and shading, a more distinct color, other than light gray, should be used.

Apollo Response: The June 2015 monitoring event included sampling of all accessible groundwater monitoring wells. Going forward, all accessible groundwater monitoring wells will be sampled during each semi-annual sampling event. Therefore, isoconcentrations maps included in the Fourth and subsequent VIRP Progress Reports will include data for all accessible wells.

a. As discussed with EPD during the August 5, 2015 meeting, the wells are screened in overburden/partially weathered rock (PWR) and PWR/bedrock. It is evident that the overburden, PWR, and bedrock are interconnected. Therefore, it would be difficult to separate out isoconcentration maps for each of the COCs per hydrogeologic unit.
b. An isoconcentration map for 1,1-dichloroethene is provided as Figure 14 in the Fourth VIRP Progress Report.
c. Comment noted.

EPD Comment 9: EPD concurs with the groundwater investigation going forward focusing and reporting on 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, 1,4-dioxane, cis-1,2-DCE, PCE, trans-1,2-DCE, TCE and vinyl chloride only. However, please ensure that full VOC scans are run on all groundwater samples and included in laboratory analytical reports.

Apollo Response: This was discussed during the August 5, 2015 meeting with EPD. EPD requested to see one additional monitoring event with a full VOC scan before concurring with this recommendation. The laboratory analytical data report for the March 2015 sampling event provides the full VOC scan. Based on this data, the more limited list of constituents will be sampled and reported in future sampling events.

EPD Comment 10: Comment 14 from EPD's December 8, 2014 comment letter was not addressed in the progress report. Please include surface water trend graphs in subsequent reporting.

Apollo Response: Comment noted. Surface water trend graphs are included in Appendix D of the attached Progress Report.

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EPD Comment 11: The project milestone schedule provided in Table 9 does not include any proposed remedial activities, which will occur over the next couple of years. Since the full-scale corrective action design is anticipated to be completed in this period please add these activities to the schedule in the next progress report.

Apollo Response: Comment noted.

If you have any questions regarding the Fourth VIRP Progress Report or this response, please feel free to contact the undersigned at (770) 973-2100.

Sincerely,

Kristen R. Rivera, P.G.
Senior Geologist

Carol D. Northern, P.G.
Principal Geologist

Attachment: Fourth VIRP Progress Report

Cc: Ms. Robin Futch, Georgia EPD
Ms. Maria Callas, Apollo Technologies, Inc.
Mr. Adam Sowatzka, King & Spalding

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FOURTH VIRP PROGRESS REPORT

AMC INTERNATIONAL, INC.
310 BROOKHOLLOW INDUSTRIAL BOULEVARD
DALTON, WHITFIELD COUNTY, GEORGIA
HSI SITE NUMBER 10405

PREPARED FOR:

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EarthCon Project No. 00.20140392.00

August 2015

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PG CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Kristen R. Rivera, P.G.
Senior Geologist

Registration No. 2049
State of Georgia

Date: August 31, 2015

1.0 INTRODUCTION

The AMC International, Inc. facility, located at 310 Brookhollow Industrial Boulevard in Dalton, Whitfield County, Georgia (HSI Site Number 10405) (Site), is owned and operated by Apollo Technologies, Inc. (Apollo). The Site location is shown in Figure 1. The Voluntary Investigation and Remediation Plan (VIRP) Application for the Site was submitted to the Georgia Environmental Protection Division (EPD) on April 12, 2013. The VIRP was approved by EPD in a letter dated August 8, 2013. This Fourth VIRP Progress Report provides a summary of activities conducted at the Site for the 6-month period from February through July 2015 (Report Period).

2.0 SUMMARY OF SITE ACTIVITIES

During this Report Period, the following activities were conducted:

- A targeted sampling event (March 2015);
- Monitoring well maintenance, redevelopment, and well abandonment;
- Monitoring well top of casing elevation surveys for select wells;
- Plume stability evaluation;
- A site wide sampling event (June 2015);
- Evaluation of the groundwater remediation systems; and
- Corrective action planning.

EPD issued comments on the February 2015 Third VIRP Status Report in a letter dated June 29, 2015. EPD concurred with conclusions presented in the Third VIRP Progress Report that regulated substances in soils at the Site are delineated to Type 1 risk reduction standards (RRS) both vertically and horizontally. EPD also agreed that Apollo could shut down recovery well ARW-2 in the Fire Release Area. EPD approved shutting down recovery wells ARW-1 and ARW-3 in September 2014. Representatives of Apollo, EarthCon Consultants, Inc. (EarthCon) and EPD met on August 5, 2015, at the Site to discuss EPD's June 29, 2015 comments and the proposed plan for corrective action at the Site which includes in situ chemical oxidation (ISCO) in the Fire Release Area and a monitored natural attenuation (MNA) pilot test for the Dobbs Area. The additional monitoring wells to delineate offsite bedrock contamination that EPD requested in the June 29, 2015 letter were also discussed.

2.1 Surface Water

Surface water samples were collected from sample locations ASW-1 Upstream, ASW-1, and ASW-2 on March 16, 2015 and from sample locations ASW-1 Upstream, ASW-1, ASW-2 and ASW Bypass on June 22, 2015. The surface water sample locations are shown on Figure 2. A description of the field procedures is provided in Appendix A and the field sampling forms are provided in Appendix B.

2.2 Groundwater

2.2.1 Monitoring Well Redevelopment and Well Abandonment

Due to siltation and high turbidity levels, monitoring wells OBG-W7, DMW-1, DMW-5, DMW-6, AMW-8, AMW-14, AMW-20, and ARW-2 were redeveloped in March 2015. Additionally, monitoring well OBG-W6 was abandoned on March 16, 2015. Due to high turbidity, well MW-23 was sampled using a diffusion bag. Notes documenting these activities are provided along with the field sampling forms in Appendix B.

2.2.2 Groundwater Sampling

In March 2015, groundwater samples were collected from 26 monitoring wells during a targeted sampling event. One additional sample was collected from well MW-23 in April 2015. During the site wide sampling event conducted in June 2015 all monitoring wells, with the exception of DMW-8/DRW-2, DMW-10, and AMW-9, were sampled. The locations of the monitoring wells are shown on Figure 2. The monitoring well construction details are presented in Table 1 and the water level measurements are presented in Table 2. Field parameters for the June 2015 sampling event are provided in Table 3. A description of the field procedures are presented in Appendix A and the groundwater sampling field forms are provided in Appendix B.

Static water levels were measured site wide on March 16, 2015 and June 11, 2015, with the exception of wells DMW-8/DRW-2 and DMW-5. The pump is lodged in DMW-8/DRW-2 preventing accurate measurements. Monitoring well DMW-5 was covered with gravel on June 11, 2015. A metal detector was used to locate and uncover the well the following week. The depth to water was measured for DMW-5 prior to sampling as shown on the groundwater sampling field form in Appendix B.

Top of casing elevations were surveyed on April 8, 2015 for wells either not previously surveyed or to verify existing elevations. The following wells were surveyed: AMW-4, ARW-1, ARW-2, ARW-3, ARW-4, DMW-2, DMW-3, DMW-7/DRW-1, DMW-8/DRW-2, DMW-9/DRW-3, MW-22D, MW-23, and ISCO pilot test wells I-1 through I-8. The updated elevation data provided in Table 2 was then used to calculate groundwater elevations.

2.3 Groundwater Remediation Systems

An evaluation of the Fire Release and Dobbs Area groundwater remediation systems (GWRS) was conducted on June 25, 2015. The Fire Release Area GWRS consists of a multi-pump dual-phase extraction (MDPE) system. Pneumatic pumps are used to extract groundwater, which is transferred to a holding tank. From the holding tank, the groundwater is transferred to an air stripper for treatment and discharged to the local sanitary sewer system. Vapors generated from the air stripper are treated using two granular activated carbon (GAC) vessels prior to being discharged to the

atmosphere. The GWRS is automated and operated using an onsite programmable logic controller (PLC) unit.

The MDPE system includes a soil vapor extraction (SVE) blower, which historically extracted contaminated vapors from the subsurface. Vapors extracted by the blower were intersected by an air/water separator tank and transferred through two GAC vessels. Condensate captured by the air/water separator tank was then transferred back to the groundwater holding tank for air stripper treatment. EPD approved the shutdown of the SVE system in the Fire Release Area on September 22, 2014. EPD also approved a partial shutdown of the GWRS in the Fire Release Area (recovery wells ARW-1 and ARW-3, only) on September 22, 2014. On September 25, 2014, the pumps at recovery wells ARW-1 and ARW-3 were removed from the well vaults and placed in the GWRS treatment shed. EPD approved shutdown of ARW-2 on June 29, 2015. The pump will be removed from this well during the December monitoring event. ARW-4 was taken off line in March 2015 once permanganate was discovered to have migrated to the recovery well. With implementation of the ISCO corrective action program scheduled to begin in early 2016, the pump in ARW-4 will also be removed during the December monitoring event.

The Dobbs Area GWRS also consists of a pump-and-treat system. Pneumatic pumps are used to extract groundwater from recovery wells into an air stripper for treatment. Once treated, groundwater is discharged to an onsite infiltration system. The location of the infiltration system is shown on Figure 3. Vapors generated from the air stripper are transferred through an air/water separator drum and two GAC vessels prior to being discharged to the atmosphere. The remediation system is not equipped for automatic operation and must be manually controlled and monitored by site personnel. Based on the current condition and age of the GWRS, significant overhaul and repairs are necessary. Repairs to or replacement of the air stripper system would be required to adequately treat groundwater. Erosion and settling of the ground surface was observed near the area of the infiltration gallery, which indicates that flooding may have occurred. The piping system for the water treatment system and supplied compressed air has aged significantly. It appears the Dobbs Area GWRS was effective initially; however, due to the age of the system and the limited life expectancy for pump-and-treat remediation systems, the GWRS is no longer effective. Therefore, Apollo plans to discontinue use of the GWRS.

3.0 ANALYTICAL RESULTS

The surface water and groundwater analytical results for the March and June 2015 sampling events are discussed below. The surface water and groundwater analytical results are summarized in Tables 4 through 6. The laboratory analytical reports are provided in Appendix C.

3.1 Surface Water Analytical Results

Surface water samples were collected on March 16, 2015 from locations ASW-1 Upstream, ASW-1, and ASW-2. As shown in Table 4, constituents were not detected at concentrations above the

laboratory reporting limits in the sample collected from surface water sampling station ASW-1 Upstream. Concentrations of cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE) were detected in samples collected from location ASW-1. PCE was detected in the sample collected from location ASW-2.

Surface water samples were collected on June 22, 2015 from locations ASW-1 Upstream, ASW-1, ASW-2, and ASW Bypass. Constituents were not detected at concentrations above the laboratory reporting limits in the sample collected from surface water sampling station ASW-1 Upstream or from ASW Bypass. Concentrations of cis-1,2-DCE, PCE, and TCE were detected in samples collected from location ASW-1. Cis-1,2-DCE and PCE were detected in the sample collected from ASW-2.

3.2 Groundwater Analytical Results

Groundwater samples were collected from 26 monitoring wells in March 2015. One additional groundwater sample was collected from well MW-23 in April 2015. A site wide sampling event was conducted in June 2015. All monitoring wells, with the exception of DMW-8/DRW-2, DMW-10, and AMW-9, were sampled. A summary of the VOC analyses is provided in Table 5 while the MNA parameter results for the June sampling event are summarized in Table 6.

Fire Release Area

During the targeted groundwater sampling event in March 2015, groundwater samples were collected from 18 monitoring wells in the Fire Release Area. One additional groundwater sample was collected on April 15, 2015 from monitoring well MW-23. As shown in Table 5, laboratory analytical results indicate the presence of six constituents at concentrations above laboratory reporting limits. Five of the six constituents, including 1,1-DCE, 1,4-dioxane, cis-1,2-DCE, PCE, and TCE were present at concentrations above delineation criteria. Only four, including 1,4-dioxane, cis-1,2-DCE, PCE, and TCE, were present at concentrations above the EPD-approved non-residential Type 4 RRS.

During the site wide sampling event in June 2015, groundwater samples were collected from 35 monitoring wells. As shown in Table 5, laboratory analytical results indicate the presence of eight constituents at concentrations above laboratory reporting limits. Five of the eight constituents, including 1,1-DCE, 1,4-dioxane, cis-1,2-DCE, PCE, and TCE were present at concentrations above delineation criteria. Only four, including 1,4-dioxane, cis-1,2-DCE, PCE, and TCE, were present at concentrations above the EPD-approved Type 4 RRS.

A groundwater analytical data review was conducted for the June 2015 sampling event and is provided with the laboratory analytical reports in Appendix C. Based on high MS recovery values for cis-1,2-DCE, PCE, and TCE in one (DMW-5) of the three site specific MS samples, the VOC results from monitoring well DMW-5 may be biased high. Because the other two MS/MSD results were within laboratory limits, this does not appear to be a site wide problem. Methane was detected in

most of the method blank samples at concentrations below the practical quantitation limit (PQL). The concentrations ranged from 0.97 to 4.9 micrograms per liter (µg/L). Results less than five times the blank value are impacted by the method blank results and may be biased high or false positive; results greater than five times the blank value are usable. Ethene was detected in one method blank at a concentration of 3.3 µg/L. The only impacted sample result is ethene in sample OBG-W8, which may be biased high or false positive.

Dobbs Area

Groundwater samples were collected from eight monitoring wells in the Dobbs GWRS Area in March 2015. As shown in Table 5, eight constituents were detected at concentrations above both laboratory reporting limits and the delineation criteria. The eight constituents included: 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), 1,4-dioxane, cis-1,2-DCE, PCE, TCE, and vinyl chloride (VC). Six of these nine constituents, including 1,1-DCE, 1,2-DCA, 1,4-dioxane, PCE, TCE, and VC, were detected at concentrations above the EPD-approved Type 4 RRS.

Cyclohexane was detected in well DMW-9/DRW-3 only during the March 2015 sampling event at a concentration of 0.066 milligrams per liter (mg/L). The delineation criterion for cyclohexane is the detection limit (0.005 mg/L). Although the concentration is above the delineation criterion/Type 1 RRS, cyclohexane complies with the EPD-approved residential Type 2 RRS of 3.5 mg/L. Also, cyclohexane was not detected above the detection limit during the June 2015 sampling event. Therefore, cyclohexane was not included on Table 6.

Groundwater samples were collected from 10 monitoring wells in the Dobbs GWRS Area in June 2015. As shown in Table 5, 10 constituents were detected at concentrations above laboratory reporting limits. Of those, seven constituents were above the delineation criteria including: 1,1,1-TCA, 1,1-DCE, 1,2-DCA, 1,4-dioxane, PCE, TCE, and VC. Six of these constituents, including 1,1-DCE, 1,2-DCA, 1,4-dioxane, PCE, TCE, and VC, were detected at concentrations above the EPD-approved Type 4 RRS.

4.0 CONCEPTUAL SITE MODEL

4.1 Groundwater Flow

The water level measurements collected on June 11, 2015 (Table 2) were used to develop a potentiometric surface map for the Site. As shown on Figure 4, groundwater elevation data suggest there is a groundwater ridge oriented along a northeast-southwest trending axis roughly bisecting the building footprint. This ridge appears to be acting as a groundwater divide with groundwater flow diverging from either side of this divide. Groundwater flow west of this divide is to the west/northwest toward the Dobbs Area. Groundwater flow east of this divide is to the east/southeast toward the Fire Release Area and the creek. Since recovery wells ARW-1 and ARW-3 were shut

down in September 2014, it appears that groundwater flow has re-equilibrated to natural conditions. Elevation data from the bedrock wells were not used in the groundwater contouring.

4.2 Extent of Soil and Surface Water Impacts

Soil

In their June 29, 2015 comment letter, EPD concurred with conclusions presented in the February 2015 Third VIRP Progress Report that regulated substances in soils are delineated to Type 1 RRS both vertically and horizontally at the Site. A cross section location map is provided as Figure 5. Vertical soil delineation is demonstrated on the cross sections shown on Figures 6 through 8.

Surface Water

Surface water samples were collected on March 16, 2015 and June 22, 2015 from surface water sample locations ASW-1 Upstream, ASW-1, and ASW-2. Surface water sample location ASW Bypass was sampled during the June 22, 2015 event. As shown in Table 4, constituents were not detected at concentrations above the laboratory reporting limits in the samples collected from surface water sampling stations ASW-1 Upstream and ASW Bypass. Concentrations of cis-1,2-DCE, PCE, and TCE were detected in samples collected from location ASW-1. Cis-1,2-DCE and PCE were detected in the sample collected from ASW-2. Concentrations detected were greater than the respective Georgia Instream Water Quality Standards (ISWQS). However, the concentrations and locations of these detected constituents are consistent with previous detections. The concentrations above ISWQS are bracketed within that segment of the stream located on the AMC property. It is anticipated that the contaminants detected in the surface water will comply with ISWQS during the course of corrective action that will focus on source area concentrations in groundwater. A summary of historical surface water data collected since 2012, along with trend graphs, is provided in Appendix D.

4.3 Plume Stability Evaluation and Extent of Groundwater Impacts

A summary of the constituents detected in groundwater at the Site is provided in Table 5 while the MNA parameter results for the June 2015 event are provided in Table 6. June 2015 groundwater plume isoconcentration maps for the eight primary constituents are provided as Figures 9 through 16. A summary of historical groundwater data collected since 1995, along with trend graphs, is provided in Appendix D.

A Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis was conducted for the Fire Release Area plume and the Dobbs Area plume. The plume analytics evaluation was conducted to provide an understanding of the stability of the various site constituent plumes in terms of area, average concentration, and mass indicator for the constituents, as well as to evaluate the overall molar characteristics of the groundwater plume. The Technical Memorandum for the Plume

Analytics Evaluation including a Ricker Method® Plume Stability Analysis, along with the supporting tables, figures, and appendices, is presented in Appendix E.

The plume analytics evaluation was performed using historical groundwater analytical data from 2005 through June 2015. The 2005 through 2015 data set provides 13 sampling events over a 10-year period. The data used for the plume analytics evaluation for PCE, TCE, cis-1,2-DCE, VC 1,1,1,-TCA, and 1,1-DCE are summarized in Appendix E Tables 1 through 6, respectively.

The plume analytics evaluation included the following elements:

- Ricker Method® Plume Stability Analysis;
- Total molar trend and molar ratio analysis for chloroethenes/ethanes;
- Molar ratio (pie chart) analysis (temporal and spatial) for chloroethenes/ethanes; and
- Plume difference over time evaluation.

The plume stability analysis was performed using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. The area, average concentration, and mass indicator for each year were plotted to observe changes in each parameter from event to event. To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or is possibly expanding.

The groundwater data was also evaluated on a molar basis. During reductive dechlorination, a parent compound degrades to a daughter compound and the mass based concentration of total VOCs decreases because one chlorine atom is released in each sequential reaction. However, the number of moles does not decrease since one molecule of a parent compound (e.g., PCE) produces one molecule of its respective daughter compound (e.g., TCE). The molar concentration only decreases once the parent constituent has been completely mineralized to benign end products (i.e., carbon dioxide, water, and chloride ion). Therefore, the total plume decrease (or increase) for constituents can be estimated by calculating the molar concentration (in nmol/L) of each species and then adding all the concentrations together for a total molar concentration of the plume. The molar concentration evaluations can demonstrate complete mineralization of VOC compounds, as well as assist in evaluating and detecting potential new, separate, and/or episodic release sources within a plume. Figures 9 and 11 in Appendix E provide total CVOC molar analyses for June 2015.

Spatial differences in constituent concentrations over time were also evaluated. Spatial difference maps (or “plume difference maps”) were prepared that illustrate where concentrations increase or decrease between two sample events. Each spatial plume difference map depicts the magnitude and locations where the dissolved constituent plume differed between the two sampling dates denoted by areas of red shading (areas of concentration increase) and blue shading (areas of concentration decrease).

Because current and historical groundwater flow direction information and evaluation of constituent concentrations and MNA results clearly indicate two distinct groundwater plumes (Fire Release Area plume and Dobbs Area plume), the discussion below is organized by each distinct area.

Fire Release Area

A Ricker Method® Plume Stability Analysis was conducted for the Fire Release Area plume using groundwater data for each of the six CVOCs and total CVOCs for years 2005 through June 2015, which resulted in the following trends:

Constituent	Area	Average Concentration	Mass Indicator
*PCE	Increasing	Decreasing	Decreasing
*TCE	Stable/Increasing	Increasing	Increasing
*cis-1,2-DCE	Increasing	Increasing	Increasing
*VC	Increasing	Stable	Increasing
1,1,1-TCA	Decreasing	Decreasing	Decreasing
1,1-DCE	Decreasing	Stable	Decreasing
Total CVOCs	Increasing	Decreasing	Decreasing

*Primary parent – daughter sequence

The results indicate a decrease in the PCE plume average concentration and mass indicator and an increase in PCE plume area. Results also show an increase in plume area, plume average concentration, and mass indicator for TCE, cis-1,2-DCE, and VC. The decreasing PCE average concentration and mass indicator followed by increasing average concentration and mass indicator for TCE, cis-1,2-DCE, and VC is what would be expected for a plume undergoing some degree of reductive dechlorination. However, because PCE is the predominant constituent as evidenced by a mass indicator orders of magnitude higher than TCE, cis,1-2-DCE, and VC, reductive dechlorination is subtly occurring but not at an appreciable rate that translates into plume mass reduction through complete mineralization (Appendix E Figures 1-5).

The total CVOC plume is also slowly decreasing in total molar plume average concentration. This may be due to the subtle reductive dechlorination processes coupled with the physical removal of contaminant mass from the plume by the recovery wells. The area of the total CVOC plume has slightly increased from 4.92 acres to 6.05 acres over 10 years. The direction in which the plume appears to have increased is perpendicular to groundwater flow. Typically groundwater plumes are

elongate in shape and parallel to groundwater flow direction. As seen in the plume difference map (Appendix E Figure 8), the groundwater plume seems to have expanded north and perpendicular to groundwater flow direction toward recovery wells ARW-1, ARW-2, ARW-3, and ARW-4. These recovery wells may have pulled the plume in their direction, possibly explaining the increase in plume area. Again, it is important to note that although area of the plume slightly increased, the mass and average concentrations within the plume have decreased.

Detections of regulated substances in offsite bedrock monitoring well MW-23 are low; however, concentrations are above delineation criteria. As discussed with EPD during the August 5, 2015 onsite meeting, a water well survey to determine whether these concentrations may impact a receptor was conducted. Residences are located downgradient and across the creek from MW-23 (Appendix F). These residences are located on Roberts Circle and Roberts Avenue to the east of the Site and on Callahan Road to the northeast. Dalton Utilities was contacted to determine whether these homes were serviced by city water. Dalton Utilities confirmed that the residences on Roberts Circle and Roberts Avenue are connected. The only address on Callahan Road that is not connected to Dalton Utilities is 710 Callahan Road. Further investigation will be conducted to verify whether this home is serviced by a private well. If it is determined that the address at 710 Callahan Road is serviced by a private well screened in bedrock, further evaluation will be considered. If not, further delineation of low level bedrock concentrations is not warranted based on the low level concentrations and lack of downgradient receptors.

Dobbs Area

A Ricker Method® Plume Stability Analysis was conducted for the Dobbs Area plume using groundwater data for each of the six CVOCs and total CVOCs for years 2005 through June 2015, which resulted in the following trends:

Constituent	Area	Average Concentration	Mass Indicator
*1,1,1-TCA	Decreasing	Decreasing	Decreasing
*1,1-DCE	Decreasing	Stable/Decreasing	Decreasing
*VC	Stable	Stable	Stable
PCE	Decreasing	Stable	Stable/Decreasing
TCE	Stable	Stable/Decreasing	Stable
cis-1,2-DCE	Stable/Increasing	Increasing	Stable/Increasing
Total CVOCs	Decreasing	Decreasing	Decreasing

*Primary parent – daughter sequence

These results show that the total CVOC plume is decreasing. This statement is supported by the stable to decreasing trends in area, average concentration, and mass indicator for the CVOC constituents as well as total CVOCs (Appendix E Figures 1-5). Reductions in molar mass have also occurred across nearly the entire plume. This decrease in molar concentration initially may have been due to the operation of the groundwater recovery system removing contaminant mass. However, as seen on Figure 11 in Appendix E, the operation of the recovery system does not appear to have had a pronounced impact on reducing plume mass as evidenced by the relatively stable trend since 2009.

The Dobbs Area plume boundary has not noticeably changed between 2005 and June 2015 except with a slight shift upgradient. The upgradient shift appears to be due to concentrations detected in DMW-6. The June 2015 molar ratio pattern of DMW-6 does not match the molar ratio patterns of the other wells in the Dobbs Area but resembles the molar ratio patterns of wells downgradient of the hydrogeologic ridge in the Fire Release Area (e.g. DMW-3 and DMW-5). The active recovery wells in the Dobbs Area may have induced a gradient allowing contaminants to migrate from the Fire Release Area toward the Dobbs Area through preferential pathways. However, for purposes of this evaluation, DMW-6 was included into the Dobbs plume analysis. Concentrations of PCE, TCE, cis-1,2-DCE, and VC are not relatively significant in the Dobbs Area plume as evidenced by their very low relative average concentrations and mass indicators when compared to 1,1,1-TCA and 1,1-

DCE. However, these low concentrations may have biased the plume boundary in an upgradient direction.

Although detections of regulated substances in the offsite overburden well OBG-W1 and bedrock well MW-22D are low, concentrations are above delineation criteria. Even though the Dobbs Area plume has not been delineated to below delineation criteria immediately downgradient of these two wells, the Dobbs Area plume is delineated to the northwest by overburden well DMW-11. As discussed with EPD during the August 5, 2015 onsite meeting, a water well survey to determine whether these concentrations may have an impact to a receptor was conducted. In an August 10, 2015 email, EPD also provided an address of a drinking water well that may have caused the 1995 Site listing (388 Callahan Road SE). The area immediately downgradient of the Dobbs Area plume is mostly zoned industrial and primarily consists of properties owned by Cargill, Inc. (Appendix F). The 388 Callahan Road SE address is located northwest of the industrial area, approximately 0.85 miles from the Site. Properties located closer to the Site but still northwest of the industrial area on Laster Drive, approximately 0.28 miles from the Site appear to be residences, although they are zoned industrial. Dalton Utilities confirmed there are no addresses on Laster Drive that are currently connected. Further investigation will be conducted to verify whether residential properties, if present on Laster Drive are serviced by private wells. At this time, further delineation of constituent concentrations in bedrock does not appear to be warranted based on the low level concentrations, heavy industrial use of the downgradient properties, and lack of direct downgradient receptors.

5.0 CORRECTIVE ACTION PLAN

Final corrective action strategies are provided below for the Fire Release Area and the Dobbs Area.

5.1 Fire Release Area – ISCO Injection Program

Based on results of the Ricker Method® Plume Stability Analysis for the Fire Release Area, which demonstrates reductive dechlorination of PCE into daughter products is occurring at a limited rate, a targeted ISCO program will be conducted in the Fire Release Area to address the constituents detected above delineation criteria in groundwater. The objective of this ISCO program is to reduce contaminant mass in groundwater and to shrink the plume. Potassium permanganate was selected as the oxidant for this area due to its effectiveness in treating chlorinated ethenes and its longevity in the subsurface.

5.1.1 Groundwater

The ISCO injection program in groundwater will focus on the overburden and partially weathered rock (PWR). Injection borings will be advanced into the PWR using a direct-push drill rig, which will be used to inject the chemical oxidant solution through the drill rod. The drilling and chemical injection activities will be performed by Redox Tech, LLC. A potassium permanganate slurry will be injected from depths of approximately 25 feet below ground surface (bgs) to the top of the PWR.

As shown on Figure 17, 54 direct push injection borings will be advanced at the following locations:

- Seven along the southeast corner of the building in accessible areas at the top of the slope;
- Three along the northeast corner of the building near wells DMW-3 and DMW-5 and upgradient of monitoring well MW-23;
- Fourteen at the base of the slope at the southeast corner of the building near AMW-1;
- Eighteen east of the building in the area of high groundwater concentrations east of AMW-9;
- Twelve in that portion of the groundwater plume between recovery wells ARW-1, ARW-2, and ARW-4.

The injection borings will not be located within 300 feet of the creek to reduce the potential for daylighting of permanganate in the creek. The exact location of the injection borings will depend on site topography. The final boring locations will be surveyed. Although the ISCO injection points will be located more than 300 feet upgradient of the creek, there is a possibility of permanganate traveling along a preferential pathway and daylighting in the creek. The creek will be monitored for specific conductance and color during the injection event and weekly for three weeks following the ISCO event. The specific conductance and color of the creek will also be checked during the monthly groundwater monitoring. If permanganate is visually observed in the creek, control measures will be implemented.

The direct push borings will be advanced 3 feet into the PWR or until refusal. Approximately 220 pounds of potassium permanganate will be injected in a 240-gallon slurry (11 wt% potassium permanganate). After locating the PWR and injecting permanganate, a boring will be advanced adjacent to the first boring to a depth of approximately 1 to 2 feet above the PWR and a 240-gallon slurry of potassium permanganate will be injected. The rods will be pulled up approximately 4 to 5 feet and another 240-gallon slurry of potassium permanganate will be injected. In total, approximately 720 gallons of an 11 percent potassium permanganate solution will be injected in three intervals at each location. This sequence of injections will allow the permanganate slurry to make contact with contaminants in the PWR as well the contaminants in overburden.

In addition to the direct push locations, sodium permanganate will be injected in existing remediation wells VER-1, VER-2, VER-3, VER-4 and pilot test well I-6. Wells VER-1, VER-2, VER-3, and VER-4 are screened across the overburden and PWR and the pilot test well is screened in the PWR. Sodium permanganate was selected as the oxidant at these locations because a potassium permanganate slurry is too thick to inject through a well screen. Approximately 1,000 gallons of 10 wt% sodium permanganate solution will be injected into each of the five wells for a total of 4,170 pounds of sodium permanganate in 5,000 gallons of injectate.

The effectiveness of the groundwater ISCO program will be evaluated through collection of groundwater samples for field measurements from the following 20 monitoring wells:

AMW-1	AMW-2	AMW-3	AMW-6	AMW-8
AMW-9	AMW-10	AMW-11D	AMW-12	AMW-13
AMW-14	AMW-15	AMW-16	AMW-17	DMW-3
DMW-5	DMW-12	ARW-1	ARW-2	ARW-4

Field parameters including pH, specific conductance, ORP, and dissolved oxygen will be collected on a monthly basis for six months. In addition, the color of the water samples will be observed by viewing the sample against a white background to assess the length of time permanganate persists in the aquifer. Results of the monthly field measurements and VOC results from the following semi-annual sampling event will be incorporated into the plume analytics to evaluate the effectiveness of the ISCO event (to determine if additional events are necessary).

5.1.2 Soil

Concentrations of PCE greater than the Type 4 RRS have been observed in soil samples collected from two areas located southeast and east of the building. The first area is in the vicinity of wells AMW-2 and AMW-3 and the second area is in the vicinity of soil boring SB-36 located east of the building and southeast of well AMW-12. To evaluate the effectiveness of ISCO in the unsaturated soil, the permanganate natural oxidant demand (PNOD) for the soils in the overburden was measured. The PNOD for a composite sample of the overburden soils collected from a depth of 1.5 to 2.5 feet bgs was determined to be 16.7 grams per kilogram (g/Kg). Previous soil sampling identified a PNOD of 2.2 g/Kg from composite soil samples collected from depths of 25 to 35 feet.

The soil in these areas is composed primarily of organic-rich sandy and silty shale. Therefore, it is likely that constituents are strongly sorbed to the organics in the soil. Because there is the potential for ISCO treatment to mobilize the constituents in soil, seven soil samples will be collected from the overburden in areas of high soil concentrations and submitted for laboratory analysis of VOCs and Synthetic Precipitation Leaching Procedure (SPLP) VOCs. Based on the results of these samples, the need for further soil remediation will be evaluated.

5.2 Dobbs Area – MNA Pilot Test

Based on the results of the Ricker Method® Plume Stability Analysis for the Dobbs Area, there is strong evidence indicating the plume is stable and decreasing in area, average concentration, and mass indicator. Additionally, there is evidence that degradation of the primary parent constituent 1,1,1-TCA to 1,1-DCE and VC is occurring. Additionally, the current GWRS is no longer effective in treating contaminant mass. Therefore, a monitored natural attenuation (MNA) pilot test will be conducted for the Dobbs Area. The GWRS will be shut down and the pumps will be removed from

the wells. Because the pump is lodged in DMW-2/DRW-8, this well will be abandoned and a replacement monitoring well will be installed to similar specifications in a location further downgradient (Figure 3).

The effectiveness of the MNA Pilot Test will be evaluated through collection of groundwater samples from the following 10 monitoring wells:

DMW-1	DMW-2	DMW-6	DMW-7/DRW-1	DMW-9/DRW-3
DMW-11	OBG-W1	OBG-W7	MW-22D	MW-24 (replacement well)

The groundwater samples will be collected on a quarterly basis for VOC and MNA analyses. Additionally, field parameters including pH, specific conductance, oxidation-reduction potential (ORP), dissolved oxygen, and ferrous iron will be collected. The MNA Pilot Test will be evaluated after 4 quarters and results will be used to update the plume stability evaluation. If there is a dramatic shift in contaminant concentration in downgradient monitoring wells, a contingency plan will be implemented. It is important to note that one time contaminant fluctuation is not unreasonable and would not be unexpected. Therefore, the focus will be on trends and not the results of a one-time sampling event.

5.3 Cost Estimate

Table 7 provides a cost estimate for the final corrective action strategies for the site. The costs are summarized as follows:

- The cost for the groundwater ISCO injection program for the Fire Release Area is $360,000; and,
- The cost for the groundwater MNA Pilot Test for the Dobbs Area is $65,000 which includes four quarterly monitoring events.

6.0 RECOMMENDATIONS

Monitoring well DMW-10, which was installed in 2002 currently has an obstruction in the well which prevents sampling. The historic analytical data show that this well has been non-detect since installation. Due to its age and condition, DMW-10 is recommended for abandonment.

Based on an evaluation of the current and historical groundwater data, and the known degradation pathways for the initial release constituents, groundwater investigations going forward will focus on the following constituents: 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, 1,4-dioxane, cis-1,2-DCE, PCE, trans-1,2-DCE, TCE, and VC. No other constituents will be reported.

7.0 MONTHLY INVOICE SUMMARY

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. During the six-month period from March 1, 2015 to August 31, 2015, Ms. Kristen Ritter Rivera, P.G., invoiced 142.25 hours on this project. A monthly summary of hours invoiced and a description of services provided is shown in Table 8.

8.0 SCHEDULE

A project schedule for activities is provided in Table 9. Activities planned for the fifth 6-month reporting period (September 2015 through February 2016) include the following:

- Implement Dobbs Area MNA Pilot Test (September 2015);
- Complete well receptor survey (Fall 2015);
- Abandon monitoring wells DMW-8/DRW-2 and DMW-10 (December 2015);
- Install replacement well MW-24 (December 2015);
- Semi-annual sampling event (December 2015);
- Implement ISCO groundwater corrective action plan, collect soil SPLP samples (January 2016); and
- Update Plume Stability Evaluation (January 2016).

The Fifth Semi-Annual Progress Report will be submitted by February 29, 2016.

TABLES

TABLE 1. MONITORING WELL CONSTRUCTION DETAILS

Monitoring Well	Installation Date	Total Depth feet, BGS	Screened Interval, feet BGS		Screen Length feet	Screened Zone	Top of Casing Elevation feet
			Top	Bottom			
Dobbs Area							
DMW-1	2/21/95	53.70	45	55	10	BDRK	776.05
DMW-2	2/22/95	55.10	47	57	10	BDRK	775.93
DMW-6	10/4/00*	56.04	35	55	20	BDRK	779.43
DMW-7/DRW-1	10/4/00*	62	42	62	20	BDRK	775.84
DMW-8/DRW-2	10/4/00*	64	44	64	20	BDRK	772.39
DMW-9/DRW-3	10/4/00*	65	45	65	20	BDRK	772.05
DMW-10	3/1/02*	60	30	60	30	BDRK	778.32
DMW-11	3/1/02*	30	20	30	10	OVB	738.84
OBG-W1	11/21/13	45	33	43	10	BDRK	757.85
OBG-W2	11/20/13	56	29	39	10	PWR/BRDK	780.91
OBG-W7	11/22/13	69	49	69	OH	BDRK	773.34
MW-22D	12/18/14	64.56	54	64	10	BDRK	758.32
Fire Release Area							
AMW-1	10/8/01	28.90	14.75	24.75	10	OVB	760.44
AMW-2	10/9/01	41.25	29.75	39.75	10	OVB/PWR	773.95
AMW-3	10/9/01	34	20	30	10	OVB	768.29
AMW-4	10/30/01	31	18.5	28.5	10	OVB	731.75
AMW-5	11/5/01	30	23.5	28.5	5	OVB	745.21
AMW-6	11/6/01	25	14.5	24.5	10	OVB	752.96
AMW-7	11/7/01	29.5	19.5	29.5	10	OVB	737.45
AMW-8	3/3/02*	43	5.5	40.5	35	OVB/PWR	763.93
AMW-9	3/3/02*	48	38	48	10	OVB/PWR	778.59
AMW-10	3/3/02*	32	21.5	31.5	10	OVB	764.22
AMW-11D	1/14/02	93.5	78.5	88.5	10	BDRK	762.76
AMW-12	1/10/02	48	38	48	10	BDRK	783.20
AMW-13	1/8/02	44	34	44	10	OVB	770.10
AMW-14	1/15/02	49	37.5	47.5	10	BDRK	770.28
AMW-15	1/8/02	20.5	10	20	10	OVB	754.14
AMW-16	1/16/02	33	21.5	31.5	10	OVB/PWR	764.00
AMW-17	1/18/02	40	28.5	38.5	10	BDRK	778.33
AMW-18	4/18/02	24	12	22	10	OVB	746.45
AMW-19	4/17/02	29	19	29	10	OVB	734.40
AMW-20	4/17/02	40	29	39	10	OVB	746.93
AMW-21	6/24/03	44	34	44	10	OVB	753.12
DMW-3	2/22/95	44.82	35	45	10	BDRK	783.14
DMW-5	10/4/00*	69.82	50	70	20	BDRK	782.57
DMW-12	1/10/02	53.76	30	50	20	BDRK	767.17
DMW-13	1/8/02	45.19	35.1	45.1	10	OVB	780.23
DMW-14D	4/1/07*	59.2	54.2	59.2	5	BDRK	727.10
DMW-15	4/1/07*	31.2	21.2	31.2	10	OVB	728.15
ARW-1	6/30/03	56	28	48	20	PWR/BRDK	765.89
ARW-2	7/3/03	61	41	61	20	PWR/BRDK	783.24
ARW-3	7/23/03	53.4	33.2	53.2	20	PWR/BRDK	750.18
ARW-4	7/24/03	61.8	41.6	61.6	20	PWR/BRDK	765.61
OBG-W3	11/18/13	42	32	42	10	OVB/PWR	776.45
OBG-W4	11/20/13	38	28	38	10	PWR/BRDK	741.56
OBG-W5	11/21/13	12.5	7.5	12.5	5	OVB	719.79
OBG-W8	11/18/13	49	41.5	49	OH	BDRK	732.99
MW-23	1/7/15	57.29	47	57	10	BDRK	762.09
VER-1	12/12/01	32.9	7.9	32.9	25	OVB/PWR	727.64
VER-2	1/29/02	48	8	48	40	OVB/PWR	730.96
VER-3	2/22/02	67	8	67	59	OVB/PWR	719.83
VER-4	4/17/02	64.5	9.5	64.5	55	OVB/PWR	728.35

Notes

BGS - below ground surface
NA - not available
OVB - overburden
PWR - partially weathered rock
BDRK - bedrock
OH - open hole
***** - installation dates inferred from date of first groundwater sample collected

Prepared by: SNW 08/26/2015
Checked by: CDN 8/26/2015

TABLE 2. WATER LEVEL MEASUREMENTS

Monitoring Well	Date	Top of Casing Elevation feet	Depth to Water feet	Total Depth feet	Groundwater Elevation feet
Dobbs Area					
DMW-1	3/16/15	776.05	36.59	54.39	739.46
	6/11/15		38.21	54.24	737.84
DMW-2	3/16/15	775.93	44.48	54.52	731.45
	6/11/15		45.94	54.50	729.99
DMW-6	3/16/15	779.43	32.94	55.53	746.49
	6/11/15		33.97	55.53	745.46
DMW-7/DRW-1	3/16/15	775.84	37.44	60.05	738.40
	6/11/15		40.18	64.60	735.66
DMW-8/DRW-2	3/16/15	772.39	27.05	NM	745.34
	6/11/15		NM	NM	NM
DMW-9/DRW-3	3/16/15	772.05	36.65	63.30	735.40
	6/11/15		44.79	60.30	727.26
DMW-10	3/16/15	778.32	33.20	60.87	745.12
	6/11/15		33.64	60.93	744.68
DMW-11	3/16/15	738.84	23.05	29.31	715.79
	6/11/15		23.15	29.59	715.69
OBG-W1	3/16/15	757.85	27.76	46.30	730.09
	6/11/15		28.24	46.35	729.61
OBG-W2	3/16/15	780.91	36.35	43.08	744.56
	6/11/15		37.00	43.13	743.91
OBG-W7	3/16/15	773.34	37.77	47.03	735.57
	6/11/15		41.15	47.00	732.19
MW-22D	3/16/15	758.32	28.60	67.54	729.72
	6/11/15		28.52	67.95	729.80
Fire Release Area					
AMW-1	3/16/15	760.44	17.76	28.67	742.68
	6/11/15		19.36	28.69	741.08
AMW-2	3/16/15	773.95	28.62	40.42	745.33
	6/11/15		30.66	40.44	743.29
AMW-3	3/16/15	768.29	25.65	33.41	742.64
	6/11/15		27.24	33.90	741.05
AMW-4	3/16/15	731.75	15.91	31.49	715.84
	6/11/15		17.00	31.53	714.75
AMW-5	3/16/15	745.21	26.04	30.85	719.17
	6/11/15		25.58	31.09	719.63
AMW-6	3/16/15	752.96	11.69	26.87	741.27
	6/11/15		12.31	26.87	740.65
AMW-7	3/16/15	737.45	20.56	32.60	716.89
	6/11/15		20.37	32.79	717.08
AMW-8	3/16/15	763.93	26.84	37.44	737.09
	6/11/15		27.61	37.45	736.32
AMW-9	3/16/15	778.59	36.55	47.59	742.04
	6/11/15		38.02	47.70	740.57
AMW-10	3/16/15	764.22	23.72	34.81	740.50
	6/11/15		25.86	34.82	738.36
AMW-11D	3/16/15	762.76	22.38	90.00	740.38
	6/11/15		22.75	90.00	740.01
AMW-12	3/16/15	783.20	35.77	47.91	747.43
	6/11/15		37.75	47.97	745.45
AMW-13	3/16/15	770.10	33.12	47.41	736.98
	6/11/15		33.80	47.40	736.30
AMW-14	3/16/15	770.28	33.55	49.90	736.73
	6/11/15		33.82	49.90	736.46
AMW-15	3/16/15	754.14	11.84	22.85	742.30
	6/11/15		13.53	22.88	740.61

TABLE 2. WATER LEVEL MEASUREMENTS

Monitoring Well	Date	Top of Casing Elevation feet	Depth to Water feet	Total Depth feet	Groundwater Elevation feet
AMW-16	3/16/15	764.00	21.73	34.55	742.27
	6/11/15		21.80	34.64	742.20
AMW-17	3/16/15	778.33	30.20	40.61	748.13
	6/11/15		31.41	40.79	746.92
AMW-18	3/16/15	746.45	18.96	24.61	727.49
	6/11/15		19.31	24.64	727.14
AMW-19	3/16/15	734.40	19.18	30.98	715.22
	6/11/15		19.87	31.01	714.53
AMW-20	3/16/15	746.93	31.97	41.07	714.96
	6/11/15		32.21	41.10	714.72
AMW-21	3/16/15	753.12	34.86	45.75	718.26
	6/11/15		34.12	45.43	719.00
DMW-3	3/16/15	783.14	34.94	45.08	748.20
	6/11/15		35.00	45.14	748.14
DMW-5	3/16/15	782.57	35.92	70.00	746.65
	6/11/15		NM	NM	NM
DMW-12	3/16/15	767.17	27.77	53.92	739.40
	6/11/15		28.65	53.54	738.52
DMW-13	3/16/15	780.23	37.80	50.25	742.43
	6/11/15		37.81	51.19	742.42
DMW-14D	3/16/15	727.10	15.11	59.11	711.99
	6/11/15		15.44	59.20	711.66
DMW-15	3/16/15	728.15	14.20	31.16	713.95
	6/11/15		19.56	31.18	708.59
ARW-1	3/16/15	765.89	26.36	44.94	739.53
	6/11/15		27.19	45.00	738.70
ARW-2	3/16/15	783.24	34.30	60.21	748.94
	6/11/15		35.44	60.30	747.80
ARW-3	3/16/15	750.18	30.41	52.46	719.77
	6/11/15		29.72	52.54	720.46
ARW-4	3/16/15	765.61	29.28	60.80	736.33
	6/11/15		29.89	61.00	735.72
OBG-W3	3/16/15	776.45	35.87	44.11	740.58
	6/11/15		36.02	44.13	740.43
OBG-W4	3/16/15	741.56	26.91	41.63	714.65
	6/11/15		27.57	41.52	713.99
OBG-W5	3/16/15	719.79	5.11	15.71	714.68
	6/11/15		5.30	15.71	714.49
OBG-W8	3/16/15	732.99	15.34	51.65	717.65
	6/11/15		15.28	52.44	717.71
MW-23	3/16/15	762.09	36.06	59.88	726.03
	6/11/15		35.70	NM	726.39

Notes
Top of casing elevation data based on historic survey for wells installed prior to Dec 2014.
NM - not measured

Prepared by: KAH 7/2/2015
Checked by: CDN 7/29/15

TABLE 3. FIELD PARAMETERS, JUNE 2015

Sample Location	Date	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm	Turbidity NTU	Ferrous Iron mg/L
Dobbs Area								
DMW-1	6/23/15	22.23	7.15	3.35	135.5	467	8.21	0.02
DMW-2	6/23/15	26.48	7.87	6.57	136.0	350	2.10	0.11
DMW-6	6/23/15	24.37	6.69	0.33	-73.8	768	341	2.56
DMW-7/DRW-1	6/24/15	21.24	6.73	0.99	207.6	763	6.13	0.06
DMW-8/DRW-2	Not Sampled -Pump in Well							
DMW-9/DRW-3	6/24/15	20.04	5.93	0.59	-3.5	691	6.79	2.86
DMW-10	Not Sampled - Debris in Well							
DMW-11	6/23/15	19.29	5.62	1.52	163.0	197	0.56	0.00
OBG-W1	6/23/15	19.00	5.78	0.99	292.5	155	5.82	0.00
OBG-W2	6/23/15	20.51	7.27	5.70	101.4	257	1.99	0.01
OBG-W7	6/23/15	20.53	6.32	2.52	122.8	582	2.68	0.00
MW-22D	6/22/15	18.51	6.56	2.76	217.1	491	3.76	0.00
Fire Release Area								
AMW-1	6/16/15	17.87	5.44	4.80	183.1	56	9.64	0.00
AMW-2	6/17/15	17.37	5.56	6.04	166.0	157	1.91	0.00
AMW-3	6/17/15	17.21	4.17	6.59	242.9	550	5.30	0.00
AMW-4	6/15/15	16.00	5.28	4.10	162.1	26	1.89	0.00
AMW-5	6/16/15	17.54	6.09	7.60	183.5	181	9.52	0.00
AMW-6	6/16/15	17.04	6.86	5.00	136.9	244	0.69	0.00
AMW-7	6/16/15	16.64	5.89	9.28	172.1	98	1.73	0.02
AMW-8	6/18/15	19.42	6.55	6.09	193.2	278	8.90	0.10
AMW-9	Permanganate Present							
AMW-10	6/22/15	19.34	5.88	1.62	118.9	139	0.62	0.00
AMW-11D	6/22/15	20.11	7.40	3.09	98.5	401	5.62	0.03
AMW-12	6/23/15	24.17	7.29	3.91	97.7	422	0.32	0.04
AMW-13	6/22/15	19.45	6.36	0.71	138.1	718	6.19	0.00
AMW-14	6/15/15	16.40	5.25	0.34	147.0	147	0.67	0.00
AMW-15	6/16/15	18.64	6.68	15.60	190.6	270	4.75	0.06
AMW-16	6/16/15	17.62	6.73	4.21	113.1	243	0.80	0.00
AMW-17	6/15/15	24.04	7.69	4.21	74.4	316	15.30	0.00
AMW-18	6/15/15	17.71	7.21	2.11	98.0	299	0.79	0.00
AMW-19	6/16/15	18.42	3.93	4.17	305.5	25	6.80	0.00
AMW-20	6/17/15	18.21	5.55	NM	198.4	47	10.30	0.01
AMW-21	6/18/15	17.38	6.17	NM	154.9	190	1.26	0.00
DMW-3	6/23/15	21.88	7.08	6.00	192.6	527	1.92	0.48
DMW-5	6/23/15	21.59	7.05	6.94	183.3	569	63.33	0.08
DMW-12	6/23/15	17.73	7.30	4.95	137.3	298	173.50	0.01
DMW-13	6/17/15	22.20	6.27	4.10	129.2	173	9.70	0.00
DMW-14D	6/15/15	16.59	9.24	4.86	56.2	444	13.90	0.00
DMW-15	6/15/15	15.78	5.29	1.30	134.7	156	4.50	0.00
ARW-1	6/24/15	18.54	7.29	3.25	135.2	382	0.00	0.04
ARW-2	6/23/15	19.82	6.49	4.75	230.1	386	86.00	1.04
ARW-3	6/18/15	16.84	6.40	NM	178.3	168	0.58	0.01
ARW-4	6/24/15	17.67	6.68	0.64	163.0	699	3.56	0.04
OBG-W3	6/17/15	22.96	6.56	4.60	105.4	200	29.10	0.00
OBG-W4	6/17/15	16.31	6.18	NM	167.5	137	47.10	0.00
OBG-W5	6/15/15	16.04	5.79	5.42	221.7	261	0.03	0.00
OBG-W8	6/15/15	16.44	10.45	4.50	66.1	335	3.86	0.00
MW-23	Sampled using diffusion bag, field parameters not measured							
Surface Water Locations								
ASW-1 UPSTREAM	6/22/15	24.48	7.37	7.26	--	263	6.83	--
ASW-1	6/22/15	22.93	7.39	6.64	--	297	3.83	--
ASW-2	6/22/15	22.74	7.15	6.02	--	281	2.33	--
ASW-BYPASS	6/22/15	31.65	7.63	6.16	--	312	27.88	--

Note
-- no sample collected or analyzed
mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NTU - nephelometric turbidity units
NM - not measured, DO sensor malfunction

Prepared by: KAH 6/26/15
Checked by: CDN 7/15/15

TABLE 4. SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

	Constituents (mg/L)	cis-1,2-DCE	PCE	TCE	Vinyl Chloride
	ISWQS (mg/L)	NA	0.0033	0.03	0.0024
Sample Location	**Date**				
ASW-1 UPSTREAM	3/16/15	< 0.005	< 0.005	< 0.005	< 0.002
	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001
ASW-1	3/16/15	**0.016**	**0.23**	0.013	< 0.002
	6/22/15*	**0.0836**	**0.591**	**0.0412**	< 0.010
ASW-2	3/16/15	< 0.005	**0.032**	< 0.005	< 0.002
	6/22/15	**0.0029**	**0.0074**	< 0.001	< 0.001
ASW BYPASS	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001

Notes:

ISWQS - GA EPD Instream Water Quality Standards (391-3-6)

mg/L - micrograms per liter

NA - not available

Bold - concentration greater than ISWQS

* - elevated detection limits

Prepared by: KAH 7/13/15

Checked by: CDN 7/17/15

TABLE 5. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

	Constituent (mg/L)	1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-DCA	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl chloride	1,4-Dioxane
	Delineation Criteria (mg/L)	0.2	4	0.007	0.005	0.07	0.005	0.1	0.005	0.002	DL
	Type 4 RRS (mg/L)	13	NC	0.52	0.005	0.204	0.098	0.16	0.00524	0.00327	0.01
Sample Location	**Date**	***Dobbs Area***									
DMW-1	3/19/15	0.17	0.015	**0.32**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	**0.0059**
	6/23/15*	**0.412**	0.0101	**0.765**	0.0011J	< 0.005	0.0028 J	< 0.005	< 0.005	< 0.005	**0.0113**
DMW-2	3/19/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.016**	< 0.005	< 0.005	< 0.002	**0.0081**
	6/23/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	**0.0069**
DMW-6	3/19/15	0.055	0.036	**0.023**	< 0.005	**0.12**	**0.4**	< 0.005	**0.17**	**0.33**	**0.025**
	6/23/15	0.0284	0.0145	**0.0131**	< 0.001	0.0491	**0.162**	< 0.001	**0.0822**	**0.0675**	**0.0226**
DMW-7/DRW-1	3/19/15	**12**	0.078	**17**	**0.08**	< 0.005	< 0.005	< 0.005	**0.012**	< 0.002	**0.019**
	6/24/15	**9.89**	0.115	**15.3**	**0.0718**	< 0.001	< 0.001	< 0.001	**0.0112**	< 0.001	**0.0207**
DMW-8/DRW-2	Not Sampled - pump in well										
DMW-9/DRW-3	3/19/15	**1.8**	0.11	**2.7**	**0.011**	0.041	**0.0061**	< 0.005	**0.02**	**0.0056**	**0.019**
	6/24/15	**4.74**	0.387	**5.65**	**0.0171**	0.0236	**0.0281**	< 0.001	**0.0158**	**0.0048**	**0.0314**
DMW-10	Not Sampled - debris in well										
DMW-11	6/23/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W1	3/18/15	**1.1**	0.0052	**0.31**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
	6/23/15*	**1.02**	0.005 J	**0.331**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002
OBG-W2	6/23/15	0.0031	< 0.001	< 0.001	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W7	3/19/15	**7.1**	0.16	**3.7**	**0.02**	0.039	**0.035**	< 0.005	**0.063**	**0.0062**	**0.061**
	6/23/15	**4.27**	0.129	**3.04**	**0.0126**	0.0391	**0.0335**	0.0031	**0.0531**	**0.0047**	**0.0597**
MW-22D	3/18/15	**0.29**	0.011	**0.14**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
	6/22/15*	0.188	0.0108	**0.0974**	0.00065 J	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.002
		Fire Release Area									
AMW-1	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.12 J**	**150**	< 0.25	< 0.25	< 0.1	< 0.005
	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.0842**	**90.2**	< 0.001	**0.0427**	< 0.001	**0.0031**
AMW-2	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**3.1**	< 0.005	**0.0054**	< 0.002	< 0.005
	6/16/15	0.0013	< 0.001	< 0.001	< 0.001	0.0024	**1.68**	< 0.001	0.0037	< 0.001	< 0.002
AMW-3	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
	6/17/15*	< 0.1	< 0.1	< 0.1	< 0.1	0.0321 J	**22.9**	< 0.1	< 0.1	< 0.1	< 0.002
AMW-4	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-5	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.285**	< 0.001	< 0.001	< 0.001	**0.002 J**
AMW-6	6/16/15	0.0113	< 0.001	0.0065	< 0.001	0.0037	**0.44**	< 0.001	**0.0071**	< 0.001	< 0.002
AMW-7	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0075**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-8	3/18/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**7.9**	< 0.005	**0.021**	< 0.002	< 0.005
	6/18/15*	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**9.26**	< 0.05	< 0.05	< 0.05	**0.0066**
AMW-9	permanganate present										
AMW-10	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
	6/22/15*	< 0.025	< 0.025	< 0.025	< 0.025	0.0156 J	**31.8**	< 0.025	**0.0535**	< 0.025	**0.0057**
AMW-11D	3/18/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.022**	< 0.005	< 0.005	< 0.002	< 0.005
	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.006**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-12	3/19/15*	0.077 J	< 0.25	< 0.25	< 0.25	**0.79**	**34**	< 0.25	**1.3**	< 0.1	**0.0081**
	6/23/15*	0.531	0.0067	**0.0572**	< 0.005	**0.858**	**27.1**	0.0048 J	**0.754**	< 0.005	**0.0093**
AMW-13	3/18/15*	< 0.050	< 0.050	< 0.050	< 0.050	**1.2**	**22**	< 0.050	**0.78**	< 0.020	< 0.005
	6/22/15*	< 0.25	< 0.25	< 0.25	< 0.25	**1.31**	**22.8**	< 0.25	**0.738**	< 0.25	< 0.002
AMW-14	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	0.034	**0.67**	< 0.005	**0.026**	< 0.002	< 0.005
	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	**0.103**	**1.51**	< 0.001	**0.0779**	< 0.001	< 0.002
AMW-15	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	0.01	**0.22**	< 0.005	**0.0058**	< 0.002	< 0.005
	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	0.0063	**0.411**	< 0.001	**0.0068**	< 0.001	**0.0031**
AMW-16	3/17/15	0.0086	< 0.005	< 0.005	< 0.005	< 0.005	**2.6**	< 0.005	**0.015**	< 0.002	< 0.005
	6/16/15	0.0048	< 0.001	0.0032	< 0.001	0.0032	**1.31**	< 0.001	**0.0107**	< 0.001	< 0.002
AMW-17	6/15/15	0.0113	< 0.001	0.0018	< 0.001	< 0.001	**0.0083**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-18	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0025	< 0.001	< 0.001	< 0.001	< 0.002
AMW-19	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-20	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.014**	< 0.005	< 0.005	< 0.002	< 0.005
	6/17/15	< 0.001	< 0.001	< 0.001	< 0.001	0.0019	**0.0272**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-21	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.72**	**22**	< 0.25	**0.52**	< 0.1	< 0.005
	6/18/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.808**	**22.1**	< 0.2	**0.504**	< 0.2	< 0.002
DMW-3	6/23/15*	0.102	0.0098	**0.182**	0.00063 J	**0.55**	**2.08**	0.0048 J	**0.225**	< 0.005	**0.108**
DMW-5	6/23/15*	0.0165	0.0052	**0.0286**	< 0.005	**0.199**	**0.558**	0.0086	**0.482**	< 0.005	**0.0053**
DMW-12	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.19 J**	**48**	< 0.25	**0.54**	< 0.1	< 0.005
	6/23/15*	< 0.5	< 0.5	< 0.5	< 0.5	**0.122 J**	**31**	< 0.5	**0.375 J**	< 0.5	**0.0038**
DMW-13	6/17/15	0.0089	< 0.001	0.0053	< 0.001	0.0019	**0.701**	< 0.001	**0.0085**	< 0.001	< 0.002
DMW-14D	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-15	6/15/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0016	< 0.001	< 0.001	< 0.001	< 0.002
ARW-1	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**42**	< 0.25	**0.56**	< 0.1	< 0.005
	6/24/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.205**	**38.2**	< 0.2	**0.434**	< 0.2	**0.0026**
ARW-2	3/18/15	0.03	< 0.005	**0.017**	< 0.005	**0.13**	**1.6**	< 0.005	**0.049**	< 0.002	< 0.005
	6/23/15*	0.0311	< 0.01	**0.0375**	< 0.01	**0.121**	**1.3**	0.0062 J	**0.0508**	< 0.01	**0.0047**
ARW-3	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.074**	**3**	< 0.005	**0.055**	< 0.002	< 0.005
	6/18/15*	< 0.025	< 0.025	< 0.025	< 0.025	**0.0999**	**2.81**	< 0.025	**0.0637**	< 0.025	< 0.002
ARW-4	6/24/15*	< 0.4	< 0.4	< 0.4	< 0.4	**2.59**	**22.6**	< 0.4	**0.86**	< 0.4	**0.002**
OBG-W3	6/17/15	0.0068	< 0.001	0.0022	< 0.001	0.0021	**0.0424**	< 0.001	0.0013	< 0.001	< 0.002
OBG-W4	6/17/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W5	3/17/15	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	**8.7**	< 0.005	**0.13**	< 0.002	< 0.005
	6/15/15	0.0019	0.0016	0.0014	< 0.001	**0.193**	**4.79**	< 0.001	**0.122**	< 0.001	< 0.002
OBG-W8	6/16/15	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0023	< 0.001	< 0.001	< 0.001	< 0.002
MW-23	4/15/15	< 0.005	< 0.005	< 0.005	< 0.005	0.0091	**0.033**	< 0.005	**0.02**	< 0.002	< 0.002
	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001	0.0015	**0.0086**	< 0.001	0.0033	< 0.001	< 0.002

Notes

Delineation Criteria equals Type 1 Risk Reduction Standard (RRS)

mg/L - milligrams per liter

DL - Detection Limit

BOLD - Concentration above delineation concentration

Bold and Shaded - Concentration above EPD approved Type 4 RRS

J - Estimated value

NC - not calculated

*elevated detection limits due to sample matrix

Prepared by: KAH 7/17/15

Checked by: CDN 7/17/15

TABLE 6. GROUNDWATER MNA RESULTS, JUNE 2015

Monitoring Well	Date	TOC mg/L	Sulfide mg/L	Chloride mg/L	Nitrogen, Nitrate mg/L	Sulfate mg/L	Ethane ug/L	Ethene ug/L	Methane ug/L	Alkalinity mg/L
Dobbs Area										
DMW-1	6/23/15	1.1	< 0.10	3.8 J	< 0.020	7.6	< 10	< 10	7.3 J*	216
DMW-2	6/23/15	0.62 J	< 0.10	3.2 J	0.15	25.3	< 10	< 10	4.9 J*	145
DMW-6	6/23/15	4.0	< 0.10	4.4 J	< 0.020	5.7	< 10	42.1	4780	386
DMW-7/DRW-1	6/24/15	2.8	< 0.10	93.7	< 0.020	9.4	< 10	< 10	36.2	300
DMW-9/DRW-3	6/24/15	3.3	< 0.10	40.9	< 0.020	6.1	< 10	< 10	1180	250
DMW-11	6/23/15	0.91 J	< 0.10	5.4	0.49	12.9	< 10	< 10	3.9 J*	71.5
OBG-W1	6/23/15	0.69 J	< 0.10	5.7	1.5	4.2 J	< 10	< 10	5.0 J*	54.8
OBG-W2	6/23/15	< 1	< 0.10	3.2 J	0.095	5.6	< 10	< 10	4.8 J*	140
OBG-W7	6/23/15	2.8	< 0.10	27.6	0.051	8.1	< 10	< 10	889	263
MW-22D	6/22/15	0.99 J	< 0.10	13.5	1.1	13.1	< 10	< 10	9.1 J*	216
Fire Release Area										
AMW-1	6/16/15	3.9	< 0.10	5.5	0.46	2.5 J	< 10	< 10	1.5 J*	11.9
AMW-2	6/16/15	17.7	< 0.10	10.4	0.62	4 J	< 10	< 10	1.7 J*	47.2
AMW-3	6/17/15	0.94 J	< 0.10	142	4	< 5	< 10	< 10	1.6 J*	< 5
AMW-4	6/15/15	< 1	< 0.10	< 5	0.073	< 5	< 10	< 10	1.7 J*	10.4
AMW-5	6/16/15	< 1	< 0.10	< 5	0.15	4.4 J	< 10	< 10	1.8 J*	64.1
AMW-6	6/16/15	1.7	< 0.10	3.3 J	0.18	4.2 J	< 10	< 10	2.2 J*	108
AMW-7	6/16/15	0.5 J	< 0.10	< 5	0.1	4.4 J	< 10	< 10	1.2 J*	45.4
AMW-8	6/18/15	0.55 J	< 0.10	< 5	0.16	3.2 J	< 10	< 10	1.7 J*	111
AMW-10	6/22/15	1.3	< 0.10	4.4 J	0.12	3.1 J	< 10	< 10	9.5 J*	58.3
AMW-11D	6/22/15	0.87 J	< 0.10	2.6 J	0.023	12.2	< 10	< 10	6.2 J*	196
AMW-12	6/23/15	0.83 J	< 0.10	10.2	1.3	10.6	< 10	< 10	1.9 J*	177
AMW-13	6/22/15	1.6 J	< 0.10	96.9	1.2	10	< 10	< 10	5.7 J*	219
AMW-14	6/15/15	1.5	< 0.10	10.9	0.4	1.9	< 10	< 10	2.7 J*	45.3
AMW-15	6/16/15	1	< 0.10	2.7 J	0.14	2.8 J	< 10	< 10	1.3 J*	104
AMW-16	6/16/15	27.8	< 0.10	3.7 J	0.25	4 J	< 10	< 10	2.3 J*	112
AMW-17	6/15/15	0.61 J	< 0.10	4.1 J	0.3	16.3	< 10	< 10	< 10	125
AMW-18	6/15/15	0.7 J	< 0.10	3.3 J	0.088	6	< 10	< 10	1.8 J*	138
AMW-19	6/16/15	< 1	< 0.10	< 5	0.12	< 5	< 10	< 10	1.3 J*	6.8
AMW-20	6/17/15	0.56 J	< 0.10	< 5	0.058	2.6 J	< 10	< 10	1.5 J*	14.8
AMW-21	6/18/15	0.78 J	< 0.10	12.9	0.55	3.3 J	< 10	< 10	2.5 J*	76
DMW-3	6/23/15	1.1	< 0.10	6.9	1.1	5.5	< 10	< 10	4.3 J*	213
DMW-5	6/23/15	0.82 J	< 0.10	23.3	3.2	7.9	< 10	< 10	5.4 J*	218
DMW-12	6/23/15	0.76 J	< 0.10	5.5	0.29	9.5	< 10	< 10	5.6 J*	171
DMW-13	6/17/15	0.65 J	< 0.10	3.4 J	0.23	4.3 J	< 10	< 10	1.6 J*	71.7
DMW-14D	6/15/15	0.68 J	< 0.10	1.5	0.088	10.8	< 10	< 10	5.2 J*	257
DMW-15	6/15/15	< 1	< 0.10	4.2	0.14	2.7	< 10	< 10	3.3 J*	70.4
ARW-1	6/24/15	1	< 0.10	5.5	0.35	9.1	< 10	< 10	2 J*	176
ARW-2	6/23/15	1.2	< 0.10	7.8	2.9	9.8	< 10	< 10	11.3*	194
ARW-3	6/18/15	< 1	< 0.10	3.2 J	0.19	4.2 J	< 10	< 10	1.8 J*	80.9
ARW-4	6/24/15	1.7	< 0.10	53.9	0.56	9.2	< 10	< 10	4 J*	252
OBG-W3	6/17/15	< 1	< 0.10	2.9 J	0.09	3.5 J	< 10	< 10	13.8	91.5
OBG-W4	6/17/15	< 1	< 0.10	< 5	0.12	4 J	< 10	< 10	3.1 J*	69.6
OBG-W5	6/15/15	< 1	< 0.10	3.5 J	0.25	4.7 J	< 10	< 10	1.4 J*	114
OBG-W8	6/16/15	1.4	< 0.10	12.7	0.12	49.2	< 10	1.2 J*	2.4 J*	62.7

Notes

Prepared by: KAH 7/13/15
Checked by: CDN 7/17/15

mg/L - milligrams per liter
ug/L - micrograms per liter
TOC - total organic carbon
J - Estimated Value
*The sample result is less than five times the method blank value. The result may be biased high or false positive.

TABLE 7: COST ESTIMATE FOR FINAL CORRECTIVE ACTION STRATEGY

VIRP Task	Estimated Cost
General Consultation/Project Management (3 years)	$ 30,000
Monitoring Well Abandonment (3 wells) and Replacement (1 well) – Dobbs Area	$ 25,000
MNA Pilot Test – Dobbs Area (4 Quarters)	$ 65,000
ISCO Injection Program for Saturated Zone Treatment – Fire Release Area	$360,000
Semi-annual Groundwater Monitoring and Reporting (3 years)	$390,000
VRP CSR	$ 35,000
Total Estimated Cost	**$905,000**

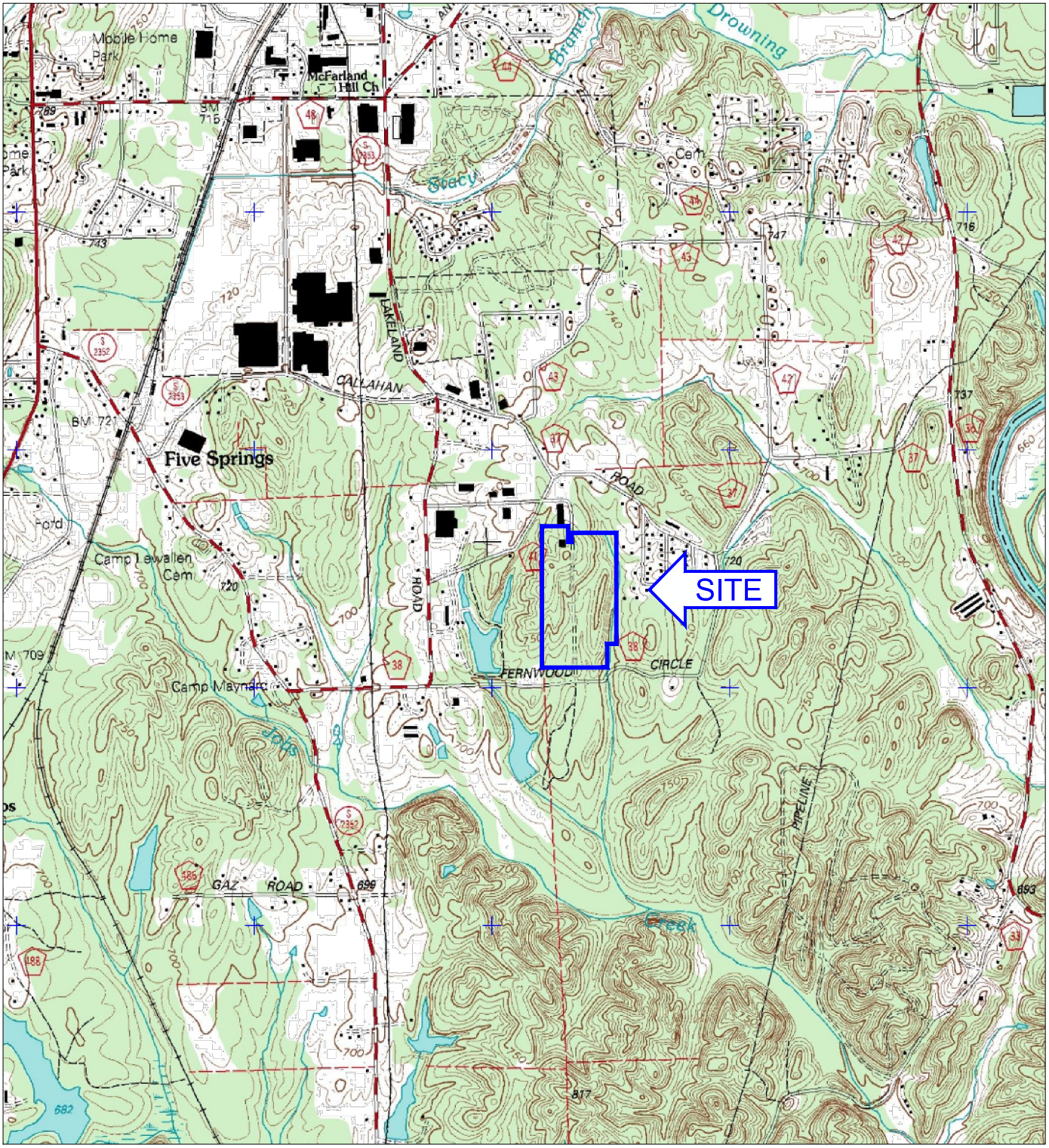
TABLE 8: SUMMARY OF MONTHLY INVOICES

Month	Hours Billed by Kristen Rivera, P.G.	Description of Activities
March 2015	22.75	– General consultation/project management – Data assessment/plume stability evaluation – O&M of groundwater remediation systems – March 2015 Field Activities
April 2015	19	– General consultation/project management – Data assessment – Preparation for December field activities – Completion of March 2015 Field Activities
May 2015	8.5	– General consultation/project management – Data assessment – Preparing for June 2015 Field Activities
June 2015	24.5	– General consultation/project management – Data assessment/plume stability evaluation – Preliminary corrective action design – June 2015 Field Activities
July 2015	21.75	– General consultation/project management – Data assessment/plume stability evaluation – Final corrective action design – Completion of March 2015 Field Activities – Preparation of the Fourth VIRP Progress Report
August 2015	45.75	– General consultation/project management – Data assessment/plume stability evaluation – Final corrective action design – Preparation and Submittal of the Fourth VIRP Progress Report

TABLE 9: PROJECTED MILESTONE SCHEDULE

Date	Activity
August 8, 2013	*VRP Application Approved*
February 14, 2014	*First VIRP Progress Report*
August 12, 2014	*Second VIRP Progress Report*
February 18, 2015	*Third VIRP Progress Report*
August 31, 2015	*Fourth VIRP Progress Report*
September 2015	Begin MNA Pilot Test - Dobbs Area
December 2015	Well Abandonment/Re-Installation – Dobbs Area First MNA Quarterly Sampling Event – Dobbs Area Semi-Annual Sampling Event
January 2016	Implement ISCO Injection Program – Fire Release Area
February 2016	Fifth VIRP Progress Report
March 2016	Second MNA Quarterly Sampling Event – Dobbs Area
June 2016	Third MNA Quarterly Sampling Event – Dobbs Area Semi-Annual Sampling Event
August 2016	Sixth VIRP Progress Report
September 2016	Fourth MNA Quarterly Sampling Event – Dobbs Area Second ISCO Injection Event – Fire Release Area
December 2016	Semi-Annual Sampling Event
February 2017	Seventh VIRP Progress Report
June 2017	Semi-Annual Sampling Event
August 2017	Eighth VIRP Progress Report
December 2017	Semi-Annual Sampling Event
February 2018	Ninth VIRP Progress Report
June 2018	Semi-Annual Sampling Event
August 12, 2018	Compliance Status Report

FIGURES



0 1000 2000 4000

SCALE IN FEET

N

SOURCE: MAPCARD TOPOGRAPHIC MAP, DALTON, GEORGIA

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SITE LOCATION

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	KRR	JUL 18, 2015	1

FILENAME: site location and tax info.dwg

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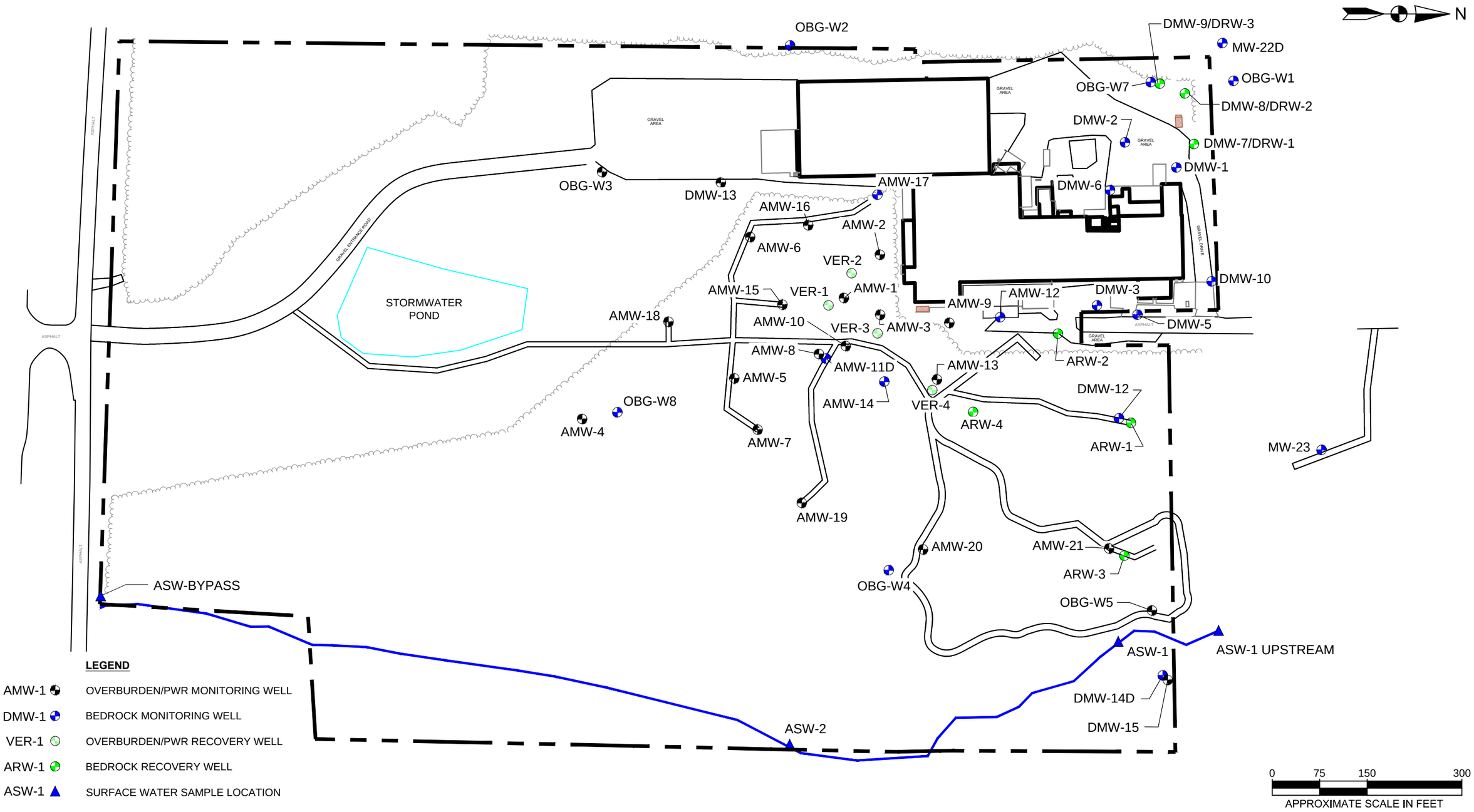

LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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GROUNDWATER MONITORING WELL AND SURFACE WATER SAMPLE LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	KRR	JULY 22, 2015	2

FILENAME: pot map3.dwg

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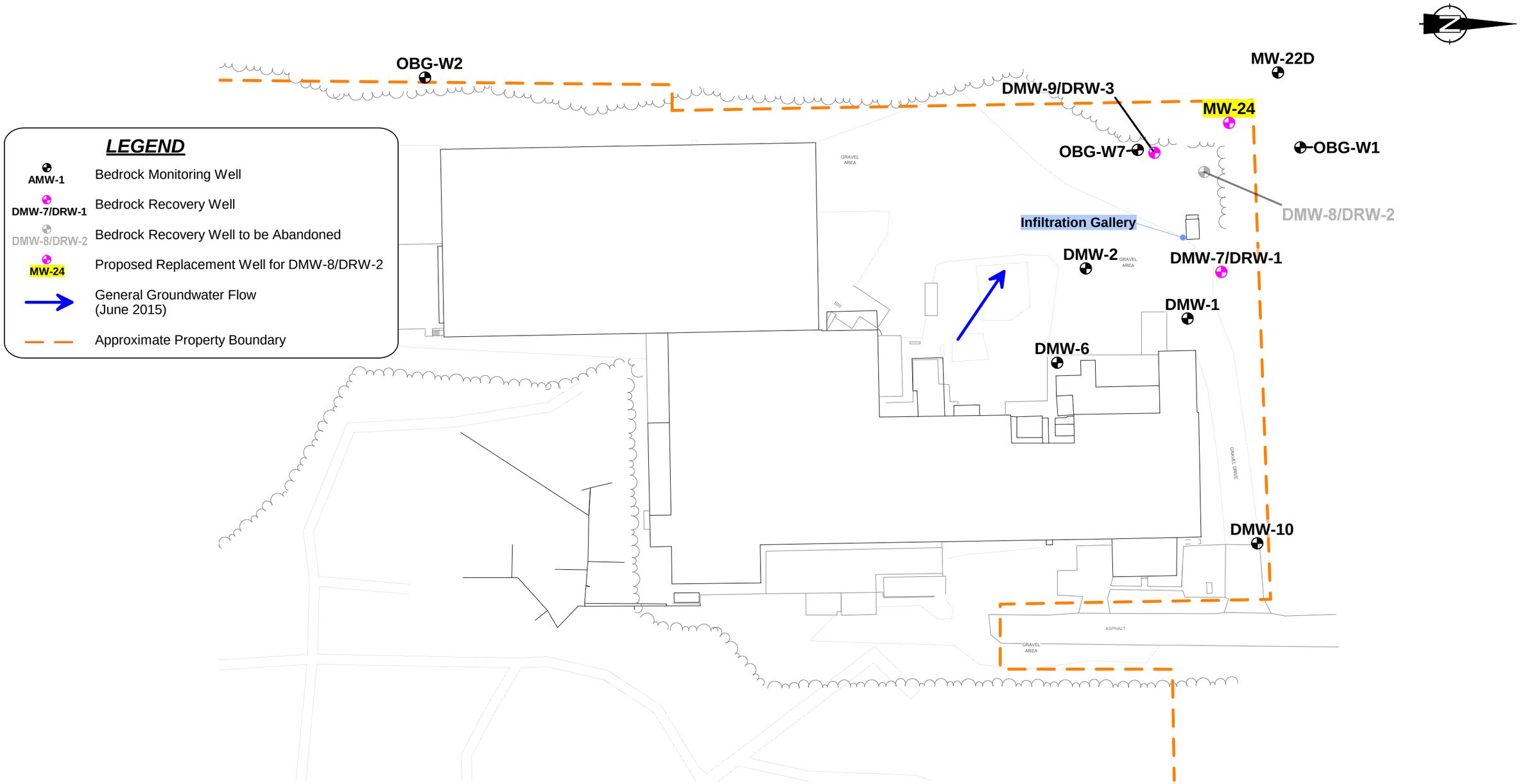

Map Scale (ft)

0 150 300

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Project Number: 02.20140392.00

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Dobbs GWRS Area

Prepared by: SNW Checked by: KRR Figure: 3

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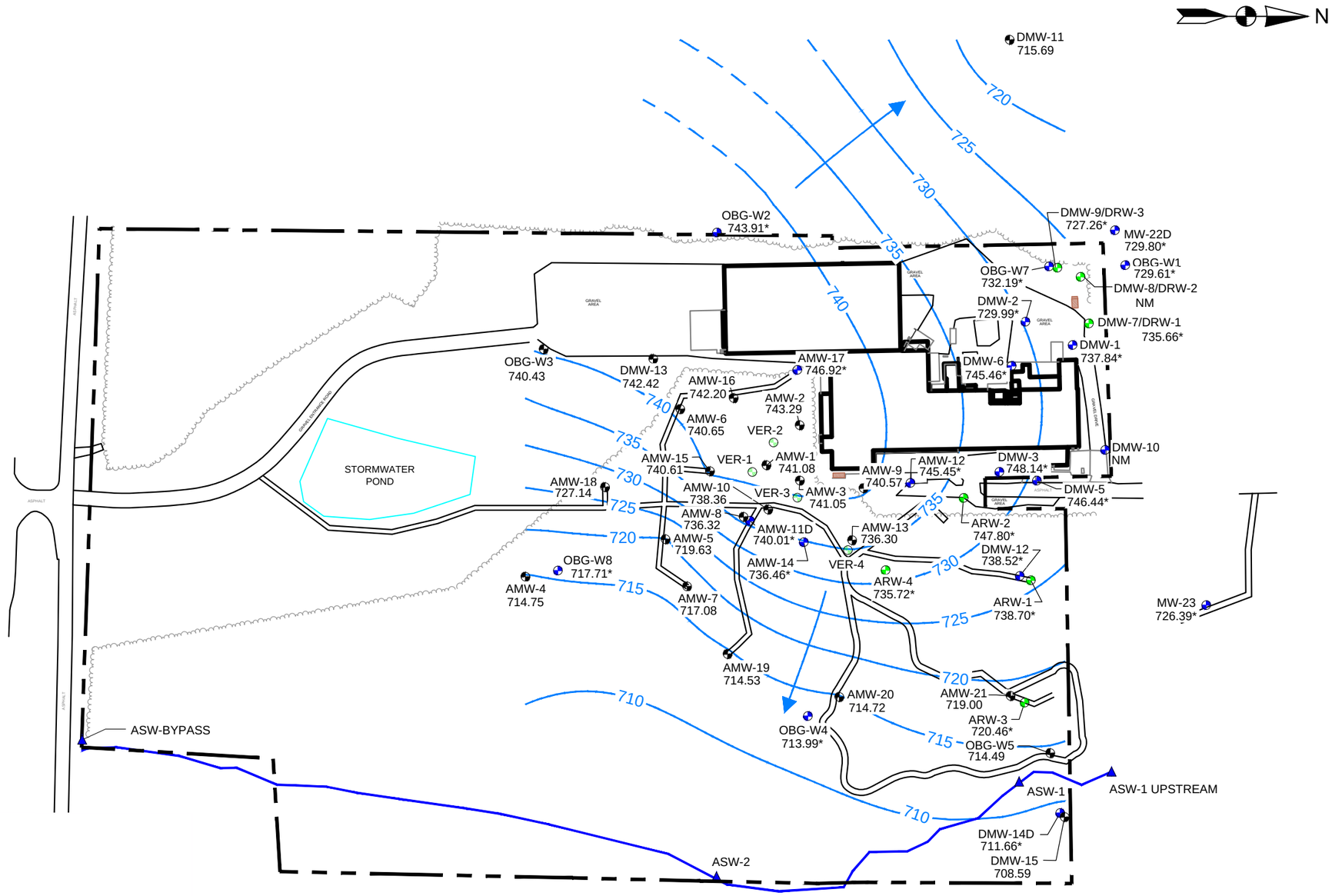

LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION
714.75	GROUNDWATER ELEVATION (FEET, MSL)
NM	NOT MEASURED
*	BEDROCK WELL, ELEVATION NOT USED IN CONTOURING

0 100 200 400

APPROXIMATE SCALE IN FEET

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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POTENTIOMETRIC SURFACE MAP
JUNE 11, 2015

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	JULY 27, 2015	4

FILENAME: pot map3.dwg

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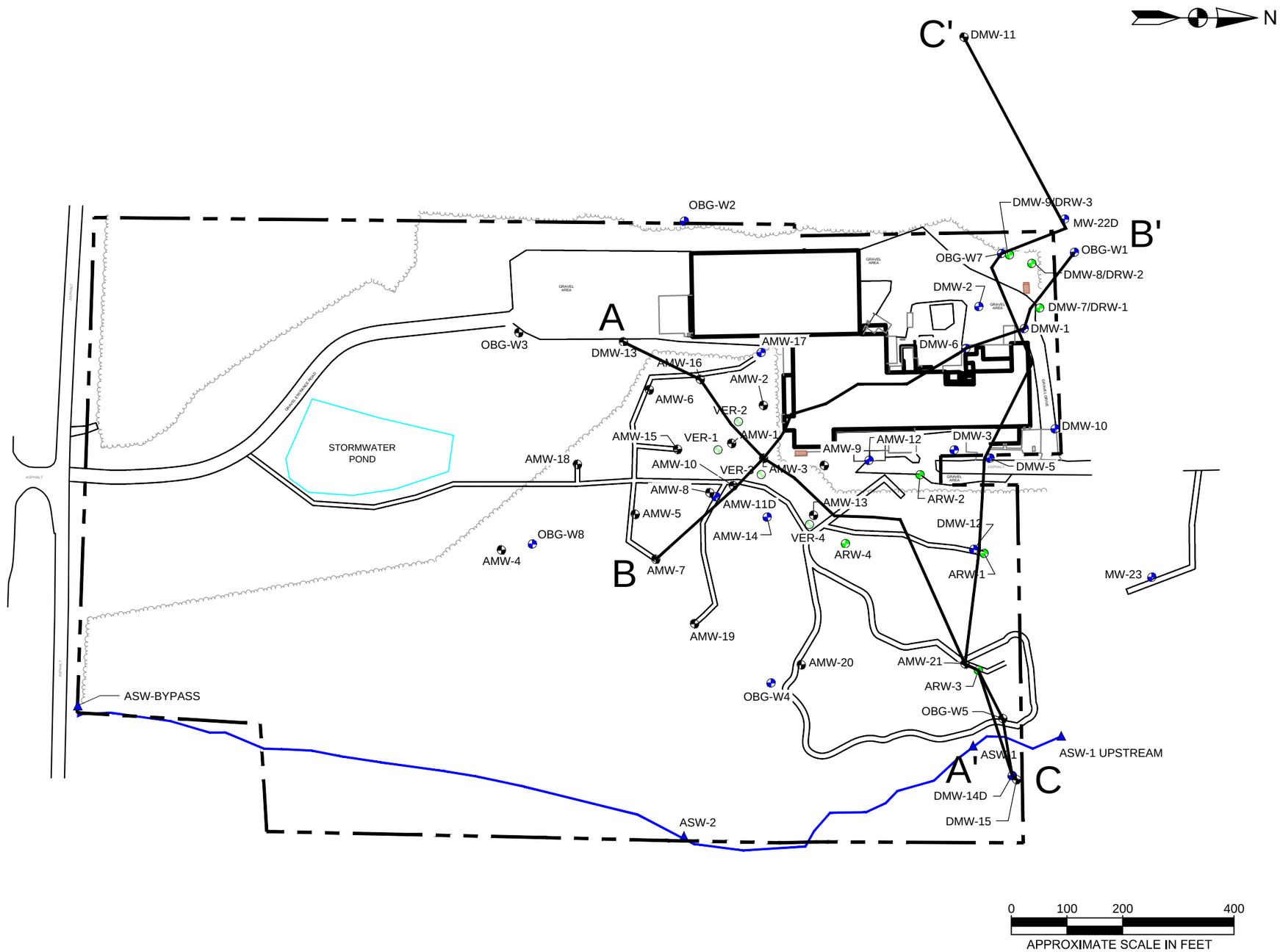

LEGEND

AMW-1	OVERBURDEN/PWR MONITORING WELL
DMW-1	BEDROCK MONITORING WELL
VER-1	OVERBURDEN/PWR RECOVERY WELL
ARW-1	BEDROCK RECOVERY WELL
ASW-1	SURFACE WATER SAMPLE LOCATION
	PROPERTY BOUNDARY
	CREEK
	GROUNDWATER REMEDIATION SYSTEM SHED

SOURCE: TERRAMARK PROFESSIONAL LAND SURVEY (6-11-2014)

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CROSS SECTION LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	JULY 27, 2015	5

FILENAME: pot map3.dwg

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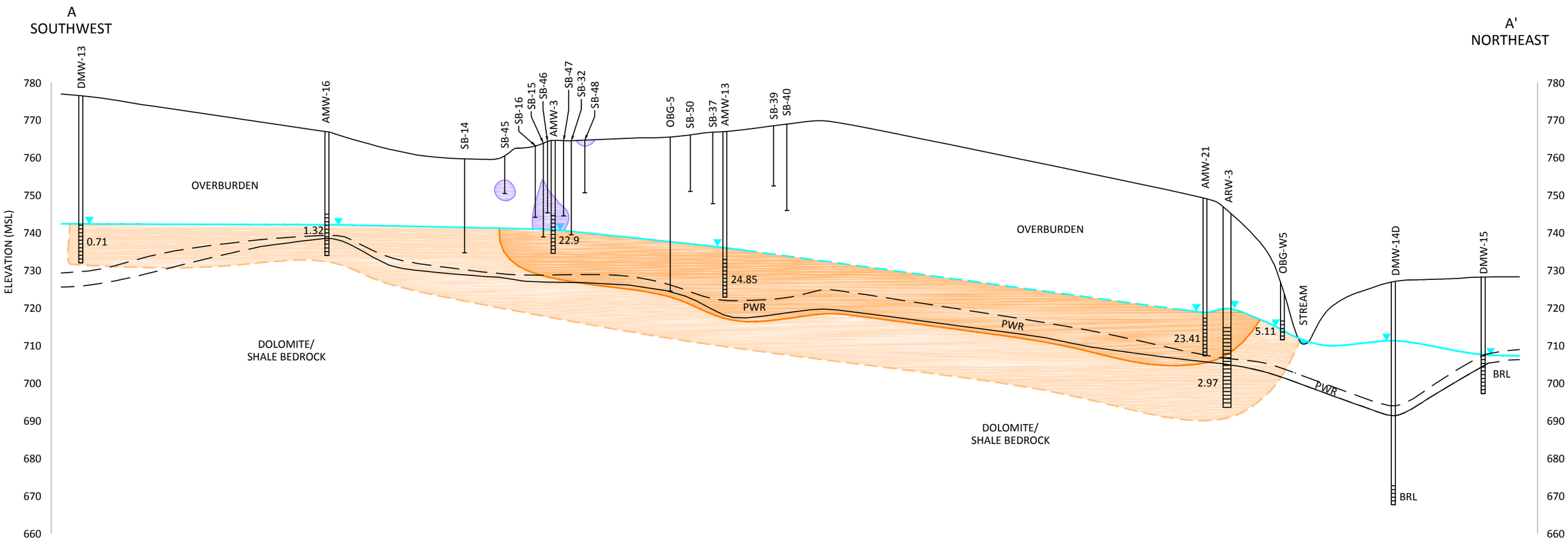

30

APPROXIMATE
SCALE
(FEET)

120

LEGEND

PWR	PARTIALLY WEATHERED ROCK
OVERBURDEN	CLAY AND SILT
▼	GROUNDWATER ELEVATION (JUNE 2015)
▭	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)
▭	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC
BDC	BELOW DC
BRL	BELOW REPORTING LIMIT
▤	SCREEN INTERVAL
┼	BORING
— — —	DASHED WHERE INFERRED
0.71	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (JUNE 2015)

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CROSS SECTION A-A'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	JULY 27, 2015	6

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

FILENAME: a-a'.dwg

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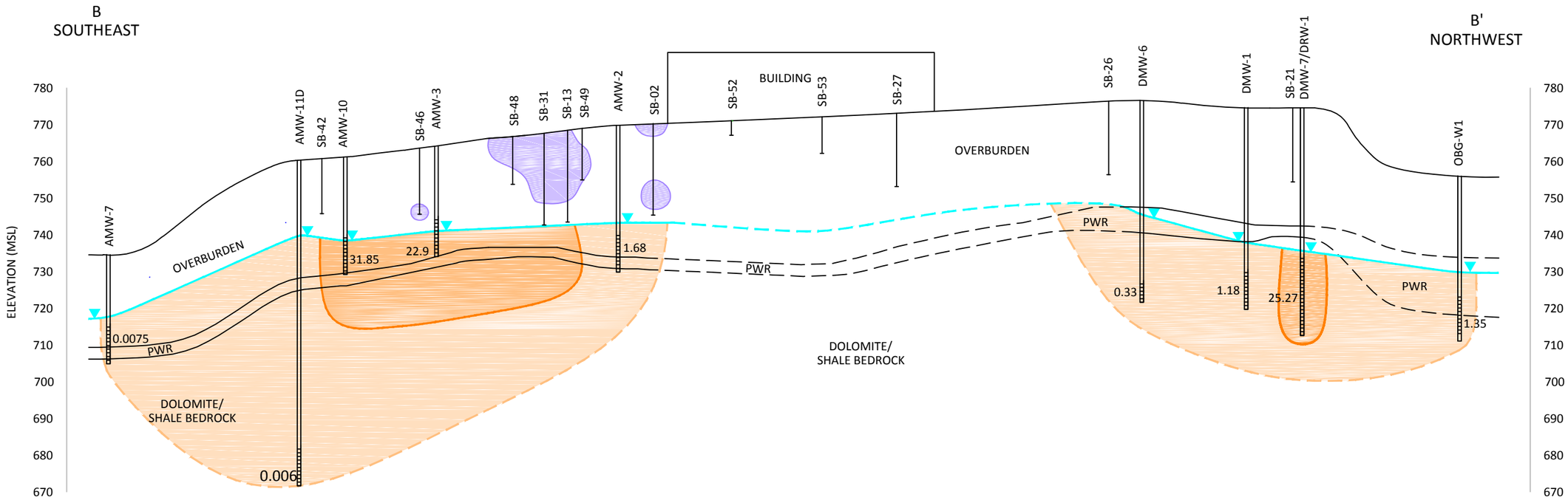

LEGEND

PWR	PARTIALLY WEATHERED ROCK
OVERBURDEN	CLAY AND SILT
▼	GROUNDWATER ELEVATION (JUNE 2015)
	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)
	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC
BDC	BELOW DC
BRL	BELOW REPORTING LIMIT
	SCREEN INTERVAL
	BORING
— — —	DASHED WHERE INFERRED
1.68	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (JUNE 2015)

30 — APPROXIMATE SCALE (FEET) — 90

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CROSS SECTION B-B'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	JULY 27, 2015	7

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

FILENAME: a-a'.dwg

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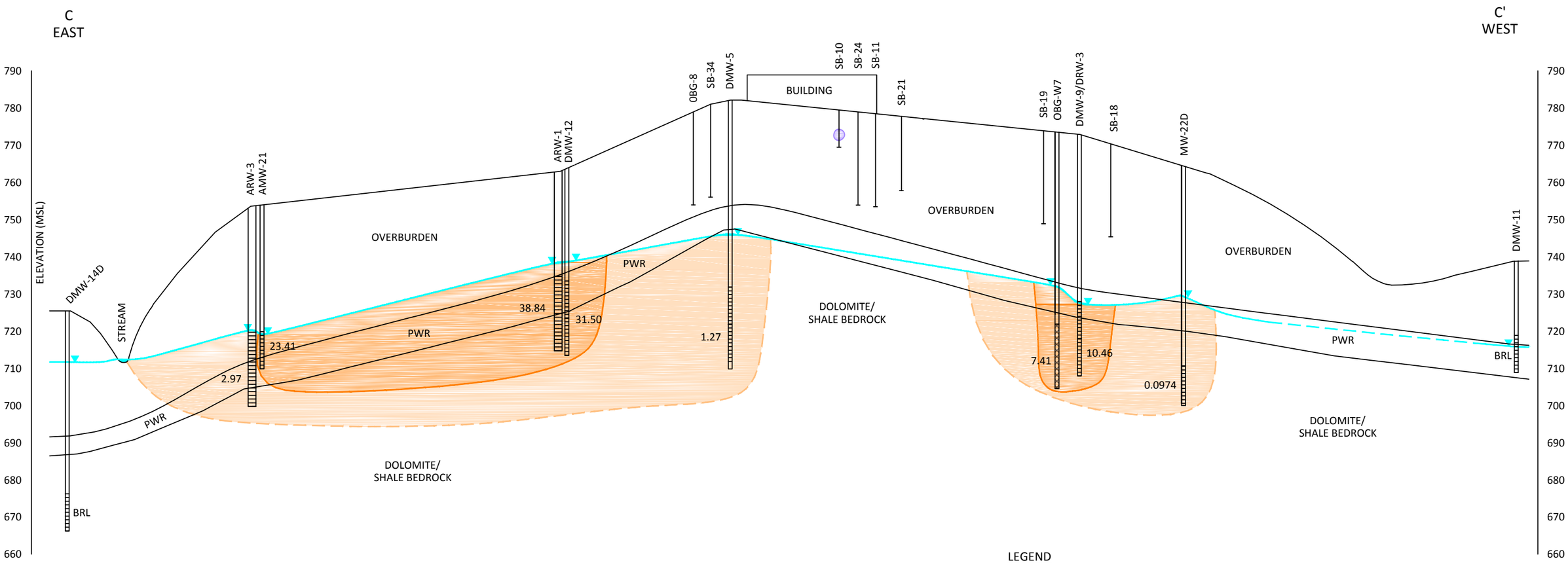

30

APPROXIMATE SCALE (FEET)

120

LEGEND

PWR	PARTIALLY WEATHERED ROCK
OVERBURDEN	CLAY AND SILT
▼	GROUNDWATER ELEVATION (JUNE 2015)
	TOTAL CVOC GROUNDWATER PLUME GREATER THAN DELINEATION CRITERIA (DC)
	TOTAL CVOC CONCENTRATION IN SOIL GREATER THAN DC
BDC	BELOW DC
BRL	BELOW REPORTING LIMIT
	SCREEN INTERVAL
	BORING
	OPEN HOLE
— — —	DASHED WHERE INFERRED
1.27	TOTAL CVOC CONCENTRATION (mg/L) IN GROUNDWATER GREATER THAN DC (JUNE 2015)

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CROSS SECTION C-C'

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	JULY 27, 2015	8

SOURCE: AMEC VOLUNTARY INVESTIGATION AND REMEDIATION PLAN (MAY 2012, REVISED JUNE 22, 2012, REVISED APRIL 12, 2013

FILENAME: a-a'.dwg

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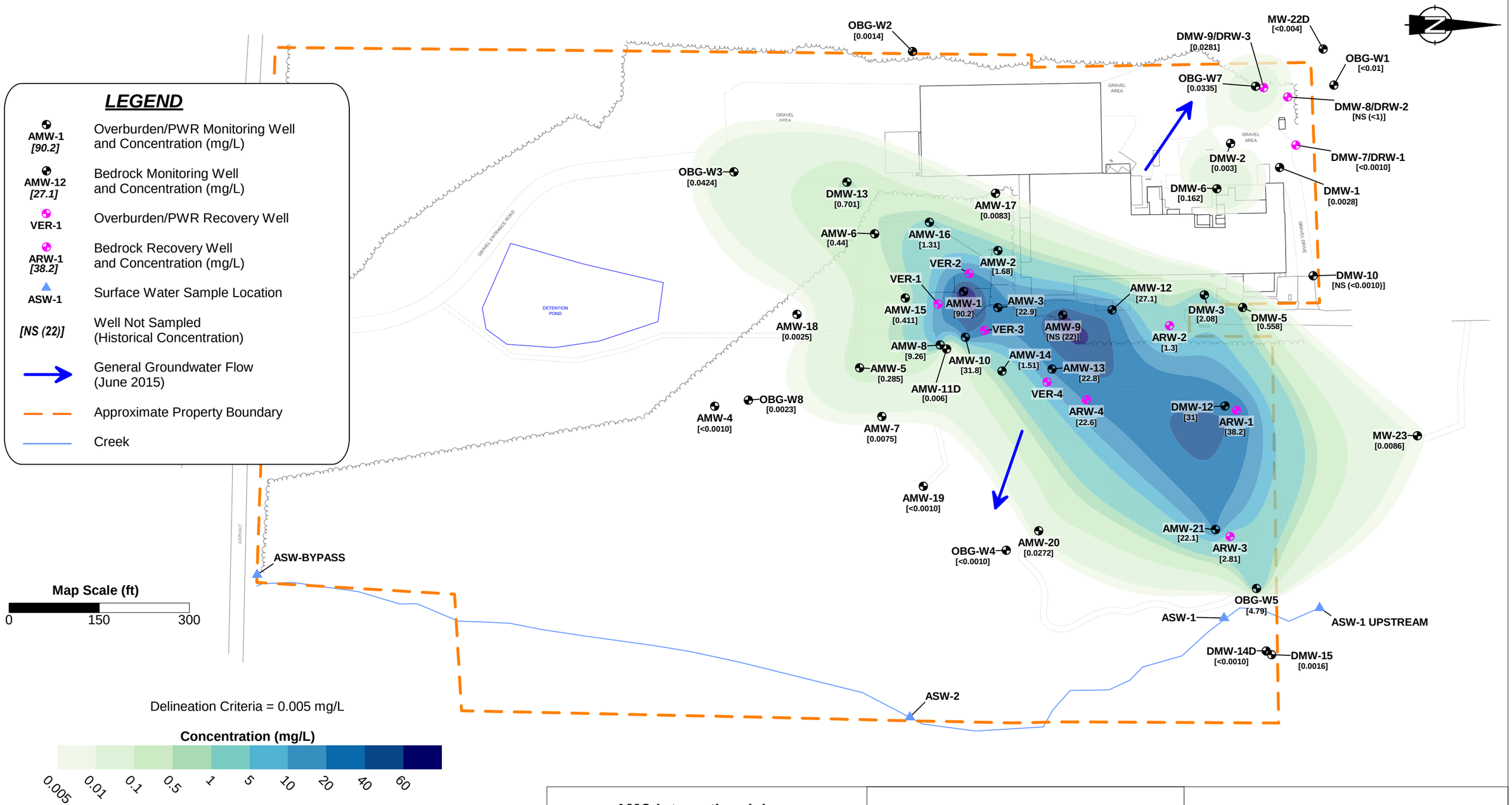

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PCE
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 9

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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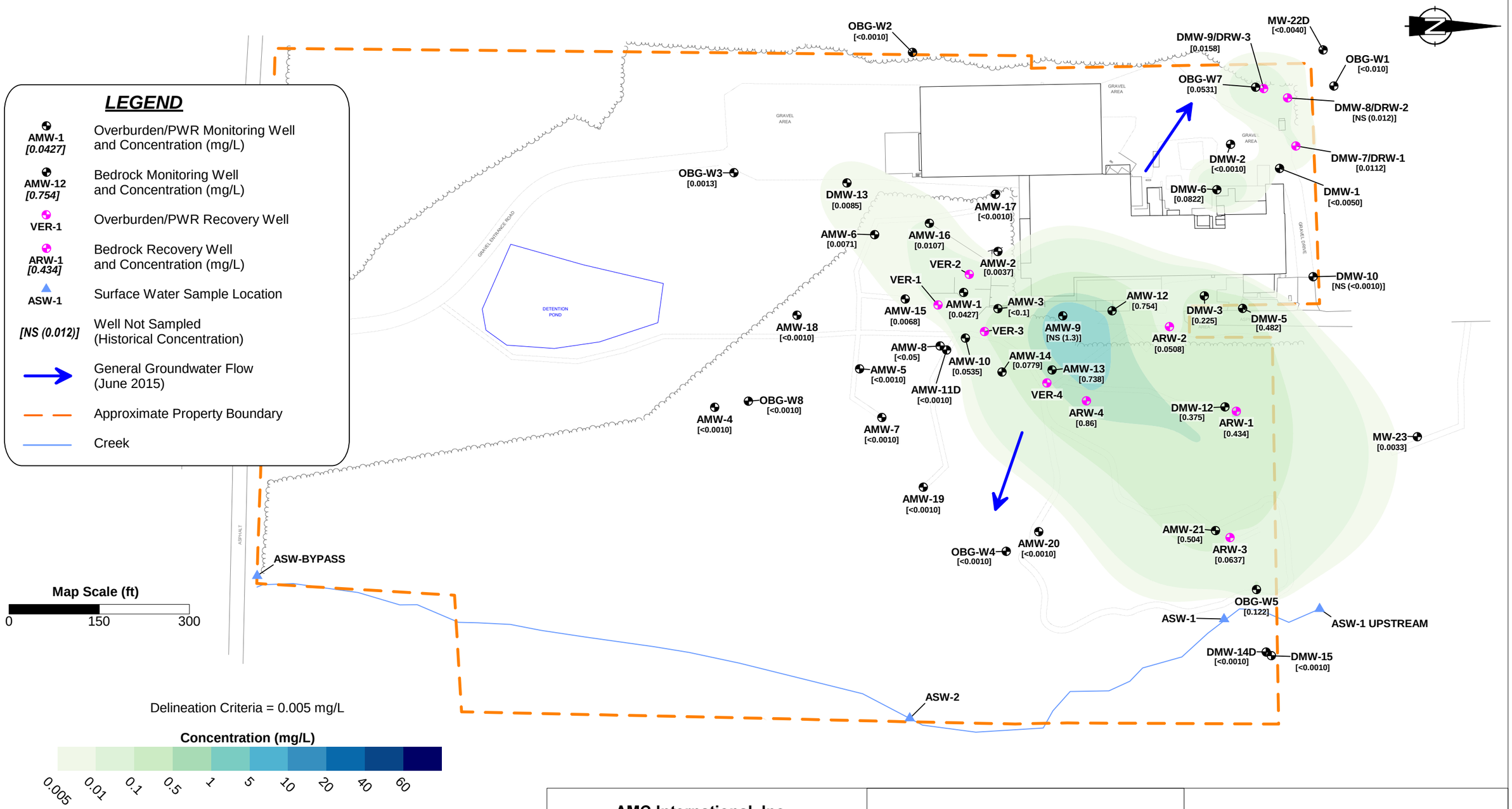

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Dalton, Whitfield County, Georgia
HSI Site Number 10405

Project Number: 02.20140392.00

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1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

TCE
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 10

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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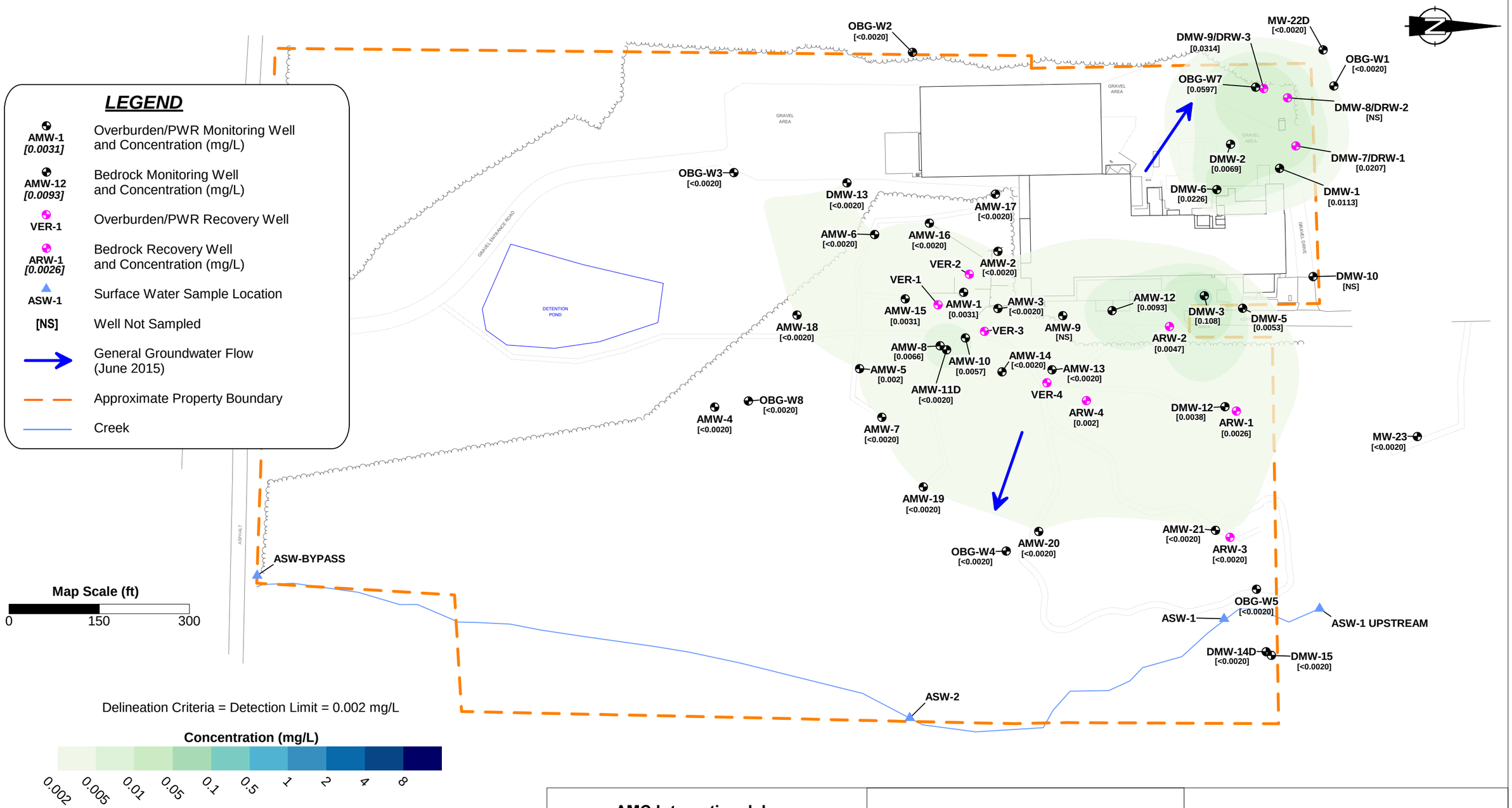

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310 Brookhollow Industrial Boulevard
Dalton, Whitfield County, Georgia
HSI Site Number 10405

Project Number: 02.20140392.00

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1,4-Dioxane Isoconcentration Map June 2015

Prepared by: SNW Checked by: CDN Figure: 11

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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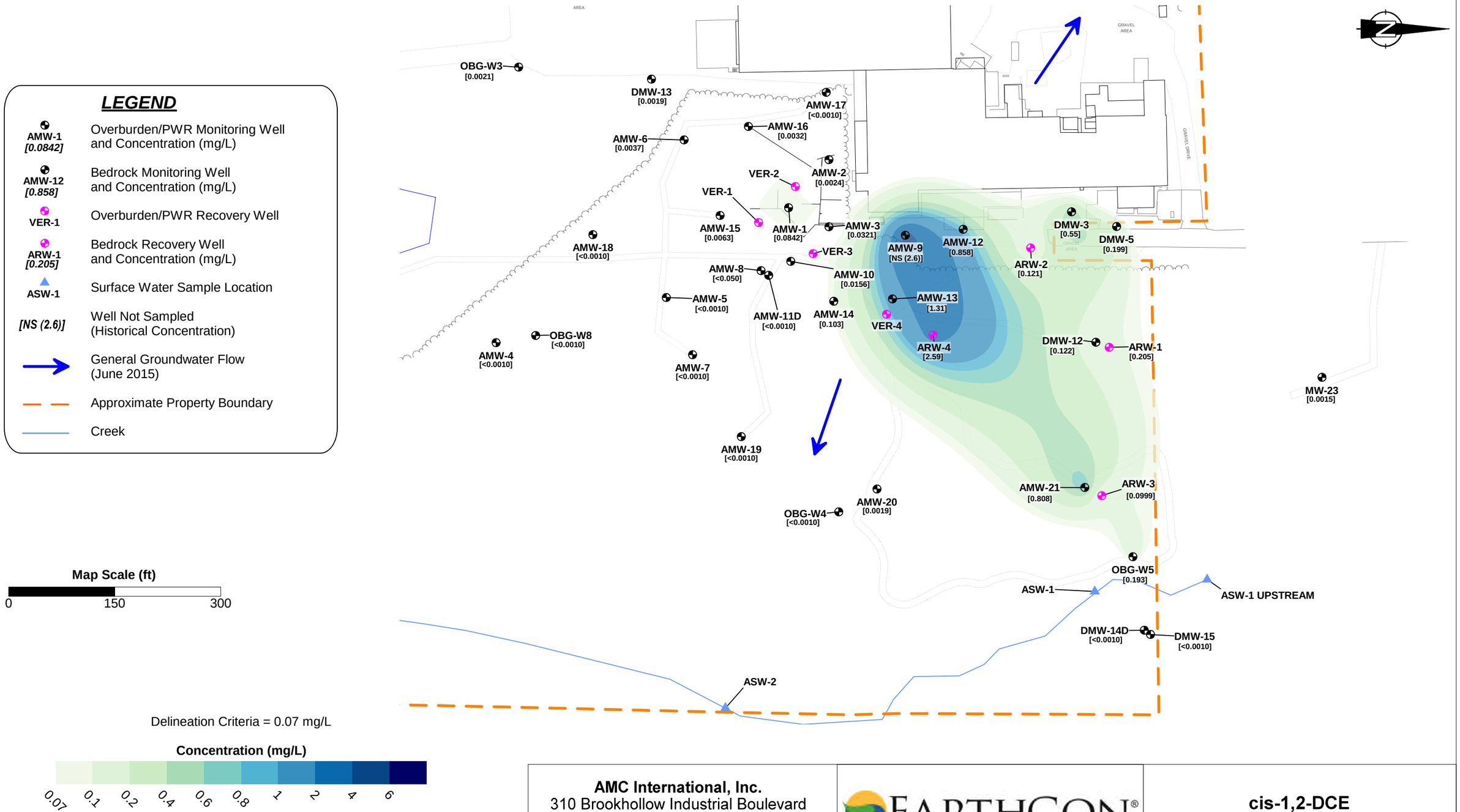

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cis-1,2-DCE
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 12

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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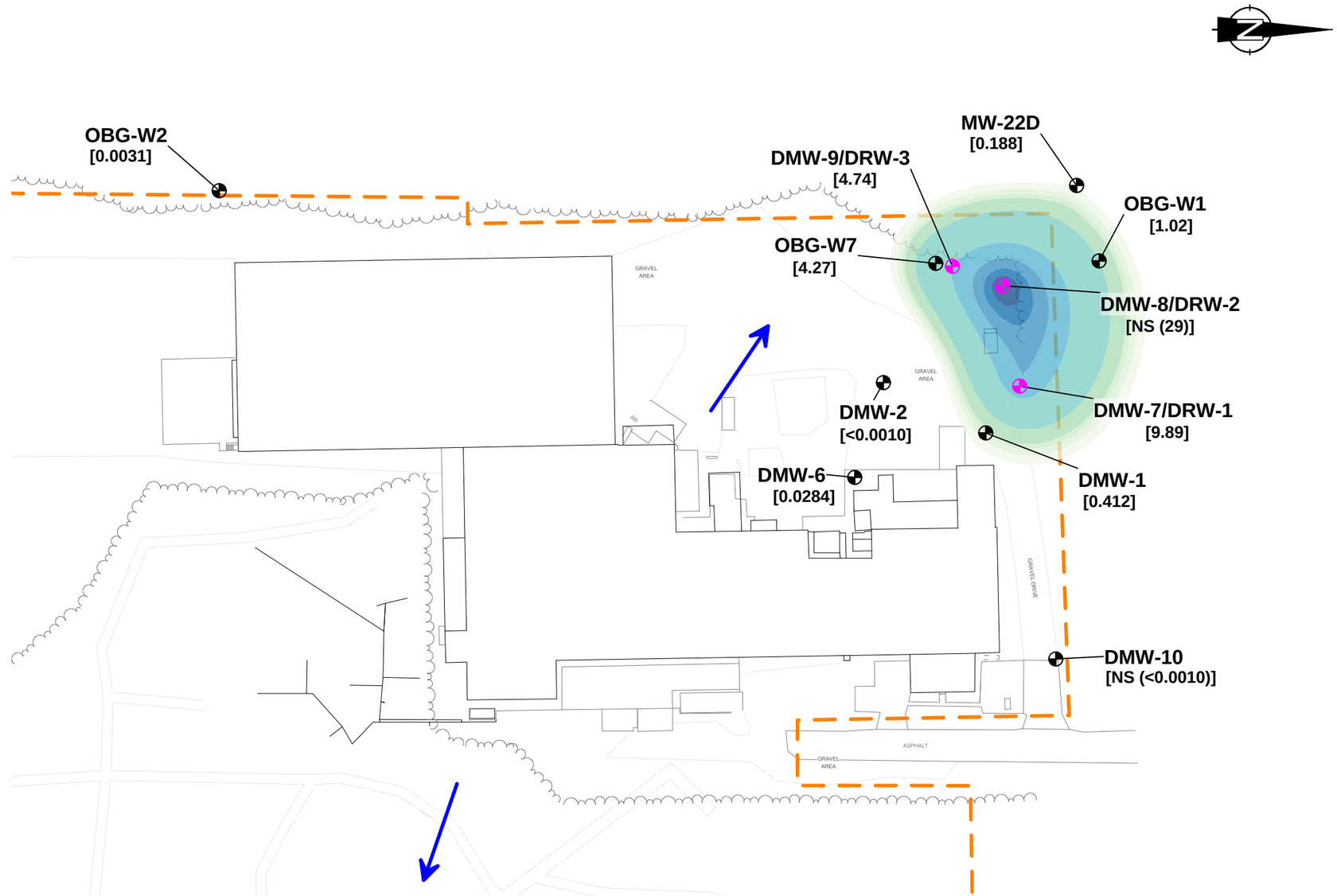

LEGEND

DMW-1 [0.412]	Bedrock Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [9.89]	Bedrock Recovery Well and Concentration (mg/L)
[NS (29)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary

Map Scale (ft)

0 150 300

Delineation Criteria = 0.2 mg/L

Concentration (mg/L)

0.2 0.3 0.4 0.5 1 5 10 15 20 40

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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1,1,1-TCA
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 13

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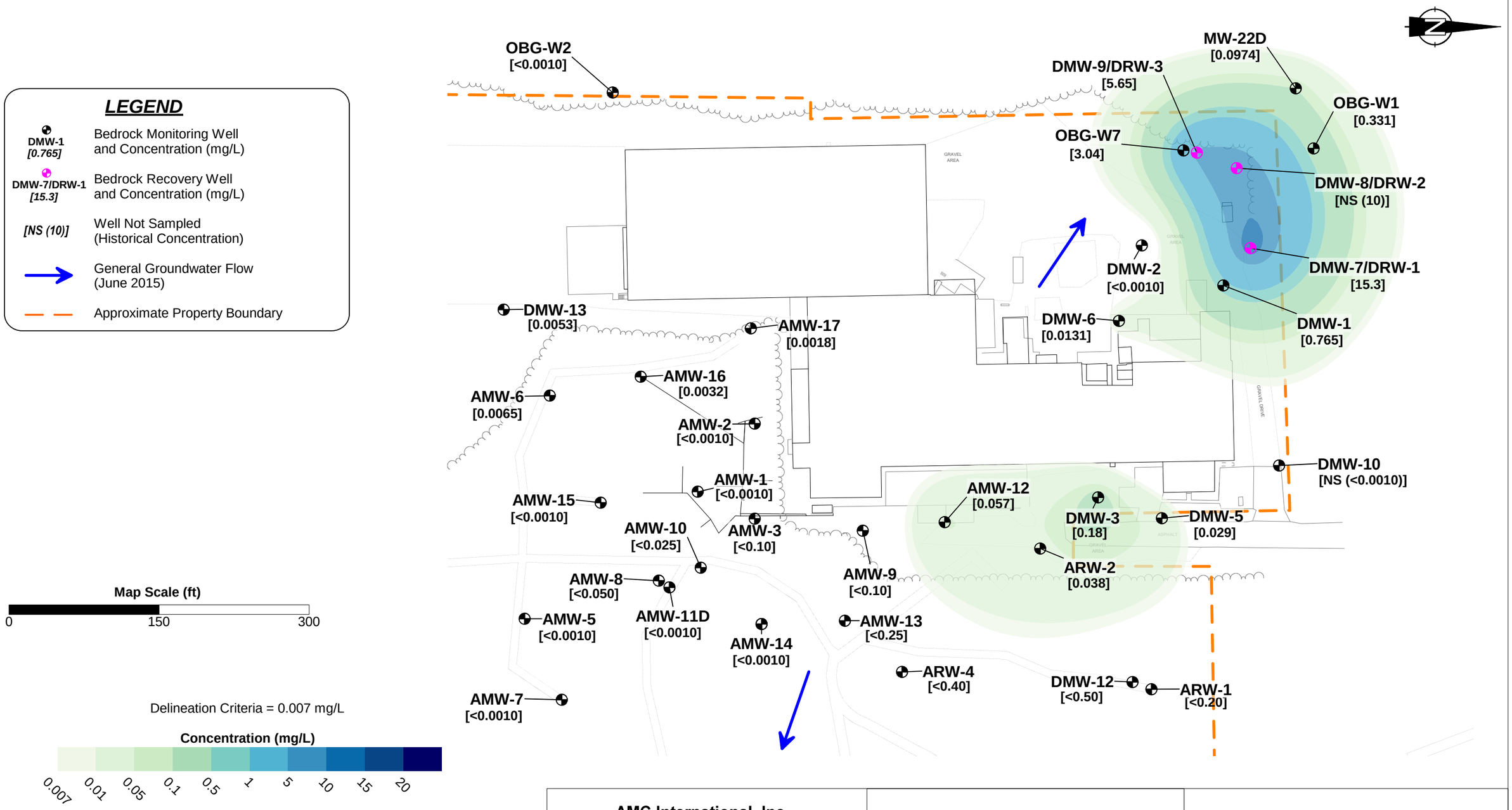

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1,1-DCE
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 14

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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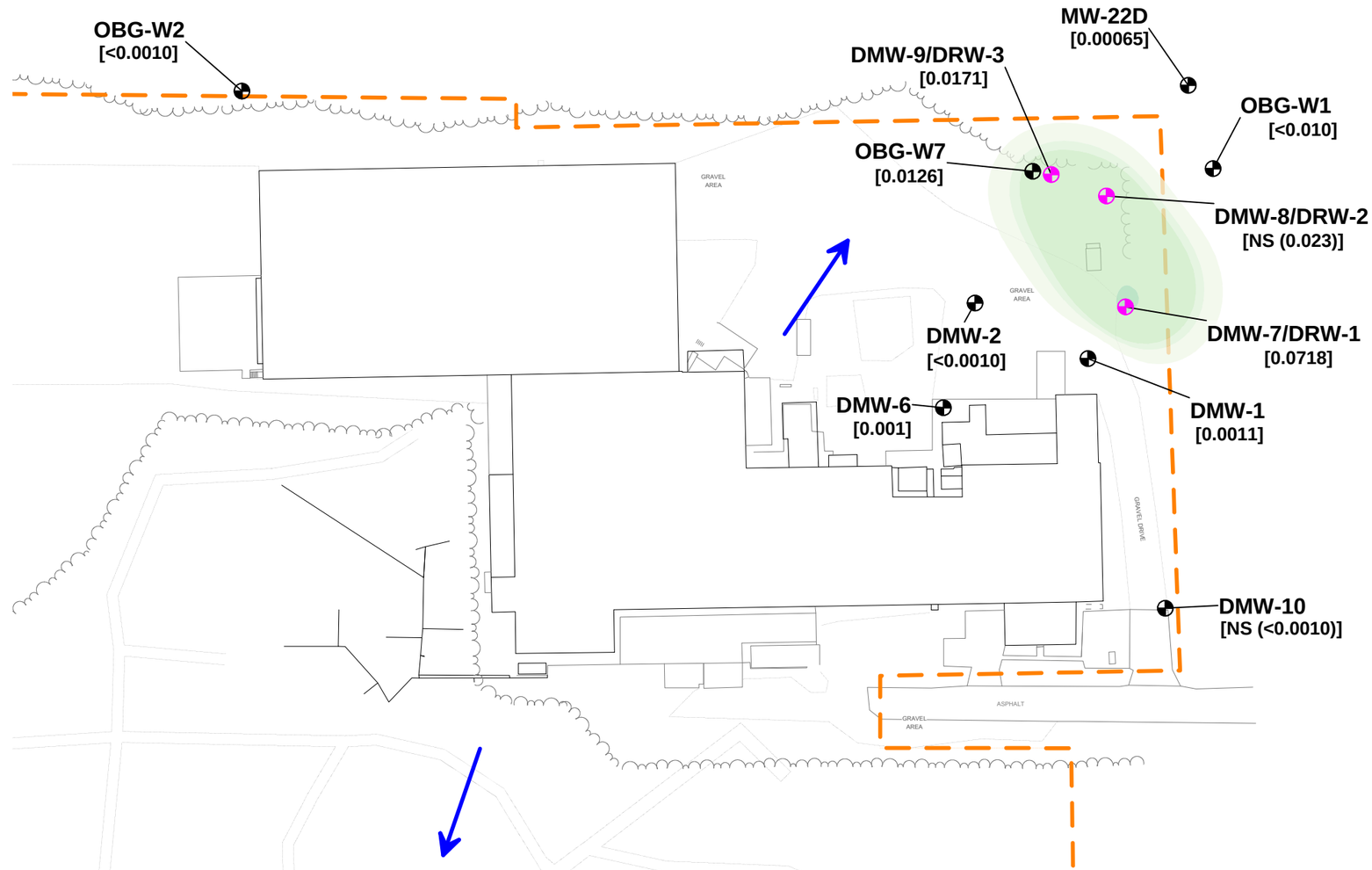
LEGEND

DMW-1 *[0.0011]*	Bedrock Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 *[0.0718]*	Bedrock Recovery Well and Concentration (mg/L)
[NS (0.023)]	Well Not Sampled (Historical Concentration)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary



Map Scale (ft)

0 150 300

Delineation Criteria = 0.005 mg/L

Concentration (mg/L)

0.005 0.008 0.01 0.05 0.08 0.1 0.5 0.8 1 5

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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1,2-DCA
Isoconcentration Map
June 2015

Prepared by: SNW Checked by: CDN Figure: 15

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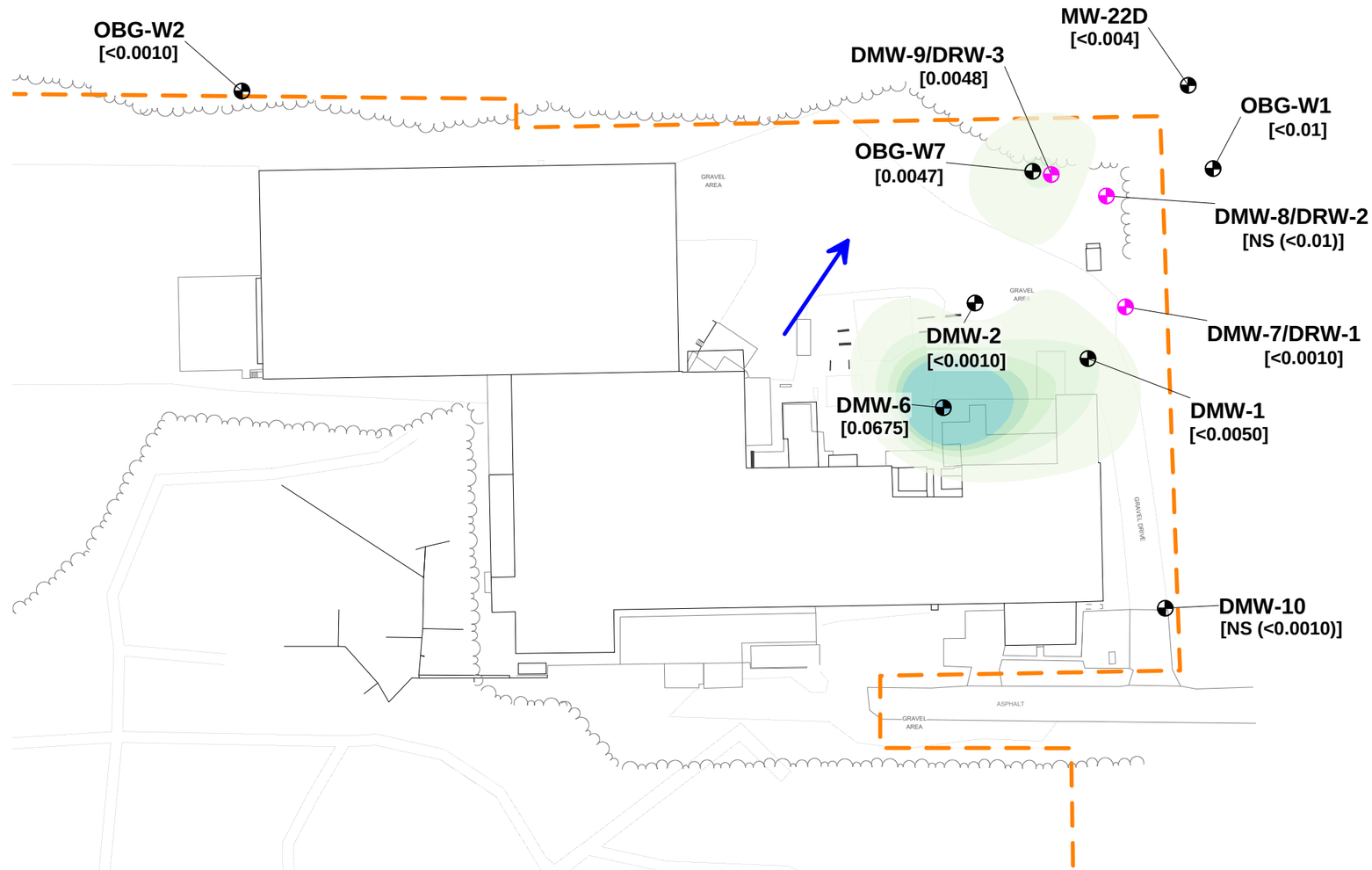
LEGEND

DMW-6 *[0.0675]*	Bedrock Monitoring Well and Concentration (mg/L)
DMW-9/DRW-3 *[0.0048]*	Bedrock Recovery Well and Concentration (mg/L)
[NS (<0.0010)]	Well Not Sampled (Historical Concentration)
	General Groundwater Flow (June 2015)
	Approximate Property Boundary



Map Scale (ft)

0 150 300

Delineation Criteria = Detection Limit = 0.002 mg/L

Concentration (mg/L)

0.002 0.004 0.006 0.008 0.01 0.05 0.1 0.5 1 5

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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HSI Site Number 10405

Project Number: 02.20140392.00

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Vinyl Chloride Isoconcentration Map June 2015

Prepared by: SNW Checked by: CDN Figure: 16

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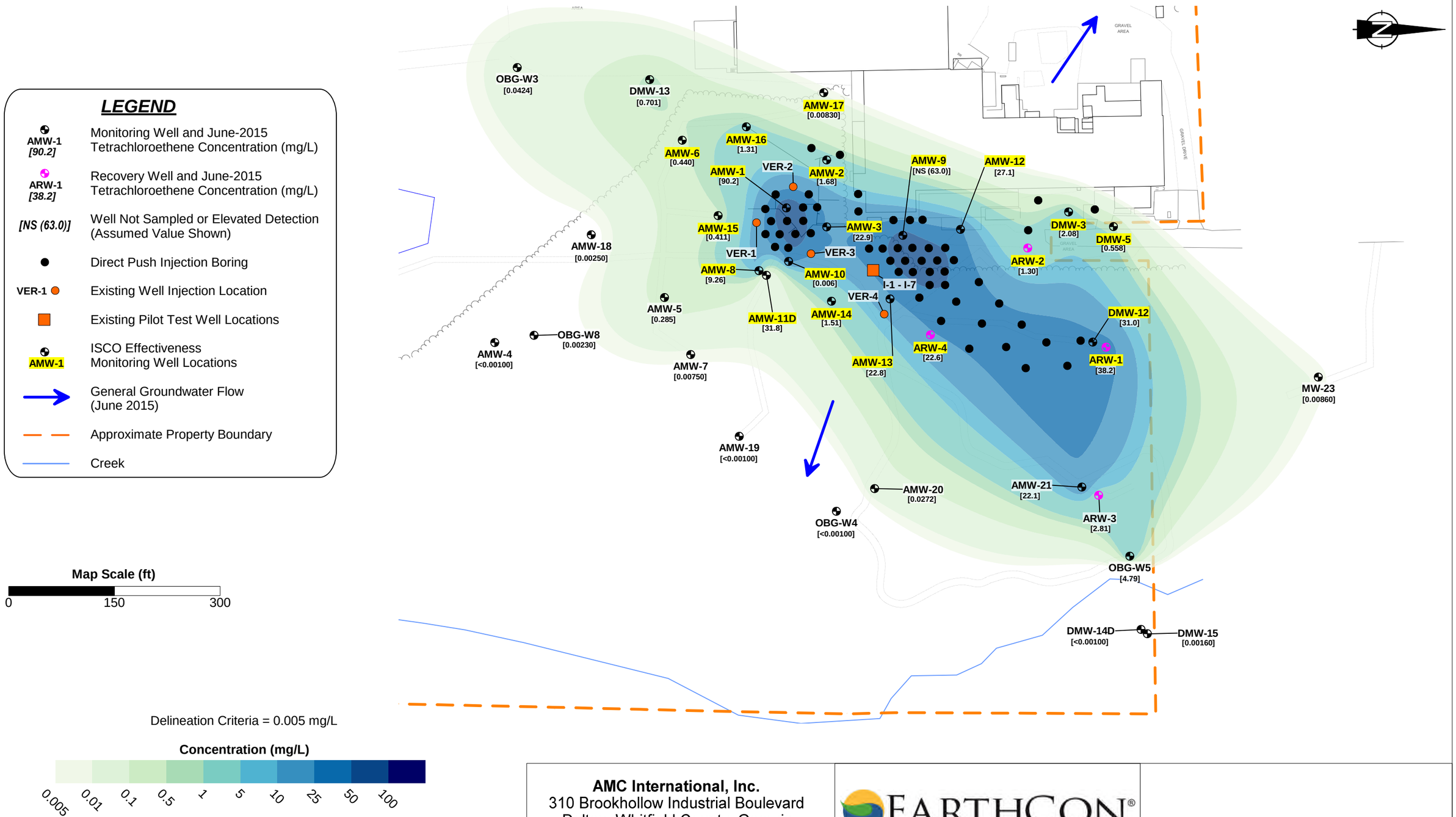

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Project Number: 02.20140392.00

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Proposed ISCO Locations

Prepared by: SNW Checked by: MAB Figure: 17

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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APPENDICES

APPENDIX A

SUMMARY OF FIELD PROCEDURES

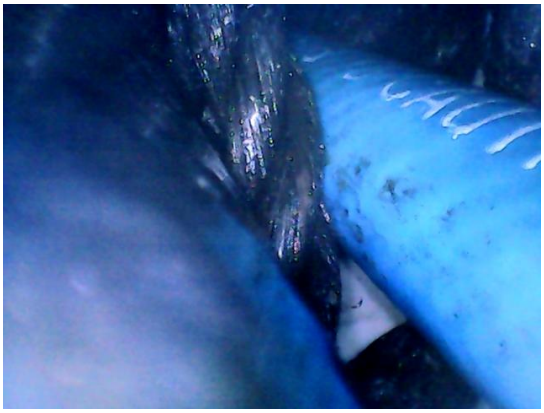
APPENDIX A: SUMMARY OF FIELD PROCEDURES

Sampling events were conducted in March 2015 and June 2015 at the AMC Dalton facility. The field activities are described in the following sections. Field sampling forms are provided in Appendix B. Laboratory analytical reports are provided in Appendix C.

GROUNDWATER SAMPLING

During a targeted groundwater sampling event in March 2015, groundwater samples were collected from 26 monitoring wells. On April 15, 2015, a groundwater sample was collected from well MW-23. A site wide sampling event was conducted on June 2015. During the site-wide event, all monitoring wells, with the exception of DMW-8/DRW-2, DMW-10, and AMW-9, were sampled.

A groundwater recovery pump is lodged in well DMW-8/DRW-2. Multiple, unsuccessful attempts were made to dislodge the pump from the well including water jetting, air lifting, and pulling with a drill rig. A downhole camera was used (photos below) to identify the obstruction. Photos from the downhole camera show rope intertwining with the recovery pump cables. It is unclear whether the rope is causing the issue or whether the pump has shifted in such a way as to have become lodged in the well.



Photos from the downhole camera show rope intertwining with the recovery pump cables.

Sampling equipment could not be lowered into monitoring well DMW-10 due to an obstruction at 20 to 25 feet below top of casing. Attempts to remove the obstruction were unsuccessful. Samples were not collected from AMW-9 due to the presence of permanganate indicated by the purple color of the groundwater.

Groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for *Groundwater Sampling* (SESDPROC-301-R3, March 2013). Prior to sampling, water level measurements were collected from each well and water quality parameters were measured (with the exception of DMW-8/DRW-2, DMW-10, and AMW-9). Water level measurements are presented in Table 2. The field parameters measured at the

time of groundwater sampling are provided on the field forms in Appendix B. Field parameters collected during the June sampling event are presented in Table 3.

Sample Containers

The laboratory provided sample containers met the sampling requirements of the study. The laboratory verified the cleanliness of each batch of containers prior to use. The laboratory supplied the necessary preservation solutions and shipped these with the sample containers.

The field sampler took responsibility for properly identifying the location of each sample taken; and for recording the sample date, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field sampler determined that additional information was pertinent to a sample being taken, such data was recorded in the field book/field form.

Groundwater Level Measurement

Prior to well sampling, depth to groundwater and total well depth were measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on each well to serve as a reference point for measurement. Depths were measured to the nearest 0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free laboratory detergent and water, and rinsed with distilled water prior to each use.

Well Purging

The monitoring wells were purged using a low flow/low volume method with a peristaltic or bladder pump and dedicated, disposable, Teflon-lined tubing. The pumps were decontaminated before use and between each well. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured during purging.

Purging continued until a minimum of three consecutive stable readings were measured with five-minute intervals between readings. For the June 2015 monitoring event, the turbidity criterion of 10 NTUs was met for most wells with the exception of DMW-5, DMW-6, DMW-12, DMW-14D, AMW-17, ARW-2, OBG-W3, and OBG-W4. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells. After purging began, drawdown stabilized and was generally less than 0.33 feet for the majority of the wells.

Purging was considered complete after the depth to water and water quality parameters stabilized. Purge water from the wells was temporarily placed in five-gallon buckets and emptied into the facility's waste water storage container. Additional information regarding the purging and sampling activities including the volume of water in each well, purge rate, and depth to water during the purge process are provided in the field sampling forms (Appendix B).

Due to turbidity issues encountered in monitoring well MW-23 during the March 2015 sampling event, a passive diffusion bag (PDB) sampler was deployed on March 20, 2015. The PDB was filled with laboratory supplied analyte-free water with no headspace and suspended at the middle of the screened interval with stainless steel weights to hold the bag within the screened interval. The PDB was sampled on April 15, 2015 and re-deployed for the June sampling event. Deployment and sampling of the PDB sampler was conducted in general accordance with USEPA SESD OP for *Groundwater Sampling* (SESDPROC-301-R3, March 2013).

Groundwater Sampling and Analysis

Groundwater samples were collected after the water level in the well stabilized and after the pH and specific conductance measurements stabilized. The groundwater samples were placed in laboratory supplied pre-preserved containers. The containers were labeled, placed in a cooler on ice, and transported to Analytical Environmental Services, Inc. (AES) located in Norcross, Georgia, or Pace Analytical Services (Pace) located in Huntersville, North Carolina. These laboratories are NELAC-certified. Groundwater samples were analyzed for VOCs by EPA Method 8260B. The samples were also analyzed for monitored natural attenuation (MNA) parameters including total organic carbon (TOC), alkalinity, sulfide, chloride, nitrate, sulfate, ethane, ethene, and methane.

Decontamination Procedures

Decontamination procedures consisted of the use of dedicated, disposable tubing at each sampling location. Equipment such as the water level indicator and field measurement instrumentation were cleaned with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment Cleaning and Decontamination* (SESDPROC-205-R2, December 2011). The equipment was allowed to air dry. Nitrile gloves were also worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included a YSI 556 with flow thru cell and a Scientific Micro TPW, HF Scientific, or Hach turbidity meter to measure pH, specific conductivity, temperature, dissolved oxygen, ORP, and turbidity. Equipment calibration was verified on a daily basis.

Field Sampling Forms

Field personnel maintained a permanently bound, water resistant field notebook. Field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each sample. The notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

Sample custody was documented from the time of sample collection when the labeled sample was placed into an iced cooler in the possession of the sampling technician. A corresponding line item on the chain-of-custody record was filled out and initialed by the sampling technician. The chain-of-custody record is used to track custody of samples during transport and shipping. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record.

Analytical Procedures and QA/QC

For the first event, the groundwater samples were transported to AES in Norcross, Georgia under chain-of-custody protocol. For the second event, the groundwater samples were transported to Pace Analytical Services in Huntersville, North Carolina, also under chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method 8260B. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also collected and analyzed.

SURFACE WATER SAMPLING

On March 16, 2015, surface water samples were collected at locations ASW-1-upstream, ASW-1 and ASW-2. On June 22, 2015 surface water samples were collected at locations ASW-1-upstream, ASW-1, ASW-2, AND ASW-bypass. Surface water sampling was conducted in general accordance with the EPA SESD OP for *Surface Water Sampling* (SESDPROC-201-R3, February 2013). Each sample was collected by dipping a clean, dedicated Teflon® bottle into the creek while facing upstream and without disturbing the stream bed. With as little agitation as possible, the surface water samples were decanted from the Teflon bottle into pre-preserved 40 ml glass vials with Teflon septa. The vials were labeled, placed in a cooler on ice and transported to AES or Pace where they were analyzed for VOCs using EPA Method 8260B.

MONITORING WELL REDEVELOPMENT AND WELL ABANDONMENT

Monitoring well OBG-W6 was abandoned on March 16, 2015. The well pad was demolished and the casing was sawn off below ground surface. The screen and riser were grouted with a bentonite grout.

Due to siltation and high turbidity levels, the following monitoring wells were redeveloped in March 2015: OBG-W7, DMW-1, DMW-6, AMW-8, AMW-14, AMW-20, and ARW-2.

Copies of the field notes recorded during well abandonment and well redevelopment are provided with the field forms in Appendix B.

APPENDIX B

FIELD SAMPLING FORMS

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/19/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Kenton Henry	/EarthCon
SAMPLE TIME: 14:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Rainy, 50's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.45
Depth of Well (feet): 54.39
Water Column (feet): 17.94
Casing Volume (gallons/liters): 11.71
Calculated Purge Volume (gallons/liters): 35.14
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 47'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1300	0								PURGE START
1310	0.25	14.72	7.34	4.34	184.8	477	47.77	38.61	slightly cloudy
1315	0.40	15.04	7.30	3.36	182.7	475	52.11	37.28	"
1320	0.65	15.64	7.28	2.97	181.1	474	50.44	39.10	"
1325	0.75	15.07	7.27	2.86	180.3	474	51.46	39.94	"
1330	0.90	14.97	7.26	2.79	180.0	475	55.52	40.31	"
1335	1.0	14.94	7.26	2.81	180.1	474	57.81	41.04	"
1340	1.10	14.90	7.26	2.78	180.4	474	51.18	41.33	"
1345	1.20	14.82	7.25	2.67	180.7	474	48.60	41.72	"
1350	1.25	14.71	7.25	2.59	180.7	475	44.06	42.12	"
1355	1.40	14.57	7.25	2.58	180.3	475	42.17	42.43	"
1400	1.60	14.60	7.24	2.58	179.9	474	36.68	42.61	"
1405	1.70	14.60	7.24	2.52	179.6	475	33.74	42.91	"
1410	1.85	14.52	7.24	2.54	179.4	476	33.77	43.14	"
1415	1.95	14.51	7.24	2.49	179.5	476	32.79	43.45	
1420	2.05	14.50	7.24	2.51	179.7	477	32.54	N/A	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Turbidometer	Scientific Inc	Micro TPW	3/18/15
Water Quality Parameter	YSI	556 MPS	3/18/15
Colorimeter	Hach	DR/890	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
DMW-1	VOC	40 mL HDPE	HCl	
"	MNA	"	"	
"	1,4 Dioxane	"	"	
"	Alkalinity	250 mL HDPE	—	
"	TOC	" "	H_2SO_4	
"	Sulfide	500 mL "	NaOH	
"	Ion	" "	—	

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Groundwater Sampling Record

WELL No. DMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/14/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Kenten Henry	/EarthCon
SAMPLE TIME: 1450	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Rain, 50's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter:
(circle one)
2" 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): ____
Depth of Well (feet): ____
Water Column (feet): ____
Casing Volume (gallons/liters): ____
Calculated Purge Volume (gallons/liters): ____
Actual Purge Volume (gallons/liters): ____
Pump Intake Depth (feet): ____

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								
1430	2.25	19.31	7.24	2.50	174.6	476	31.08	N/A	PURGE START

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
see page 1			

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
See page 1			

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Groundwater Sampling Record

WELL No. DMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/19/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY R. Davis	/EarthCon
SAMPLE TIME: 1035	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 47° Rain	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for (2" = 0.163); 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 44.48
Depth of Well (feet): 54.52
Water Column (feet): 10.04
Casing Volume (gallons/liters): 1.63
Calculated Purge Volume (gallons/liters): 4.9
Actual Purge Volume (gallons/liters): 1.5
Pump Intake Depth (feet): ≈52.5'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.02

Well Evacuation

Water level recovery is: very slow (slow) moderate fast

Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0927	0								PURGE START
0934	—	14.24	7.61	6.51	-75.7	319	40.86	44.90	
0945	0.25	14.99	7.89	4.75	-78.3	318	18.05	45.87	
0955	0.6	14.85	7.91	4.71	-76.5	318	5.29	46.83	
1005	1.0	15.04	7.92	4.71	-76.7	320	4.31	47.80	
1015	1.25	15.07	7.90	5.31	-77.0	323	3.44	48.97	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/19/15
Turbidity	HF Scientific	MicroTPW 20000	3/19/15
Bladder pump	QED	Micropurge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
2		40ml / HCl	MNA GASES
2		40ml / HCl	VOCs
2		40ml / HCl	1,4-Dioxane
1		250ml / -	Alkalinity
1		250ml / H_2SO_4	TOC
1		500ml / 2N NaOH	Sulfide
1		500ml / -	Ions

START Purge-0927 End purge 1016 Sample 1035

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-6	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/19/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY R. Davis	/EarthCon
SAMPLE TIME: 1300	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 47° Rain	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 32.94
Depth of Well (feet): 55.53
Water Column (feet): 22.59
Casing Volume (gallons/liters): 3.68
Calculated Purge Volume (gallons/liters): 11.0
Actual Purge Volume (gallons/liters): 2.56
Pump Intake Depth (feet): ≈ 53.5'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous iron (mg/L): 2.17

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1127	0								PURGE START
1134	—	15.91	6.65	5.31	-165.5	1007	33.16	33.40	
1145	0.25	16.09	6.74	1.36	-187.8	1185	37.41	34.53	
1155	0.6	16.28	6.76	0.87	-202.1	1054	31.07	35.38	
1205	1.0	16.25	6.74	0.70	-202.4	954	23.66	~~23.66~~	35.93
1215	1.3	16.13	6.73	0.73	-196.0	889	19.76	36.35	
1225	1.6	16.04	6.74	0.66	-198.9	855	19.61	36.58	
1235	2.0	16.06	6.75	0.73	-202.1	825	16.36	36.76	
1245	2.4	16.04	6.76	0.68	-190.6	781	24.73	36.90	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/19/15
Turbidity	HF Scientific	MicroTPW 20000	3/19/15
Bladder pump	QED	Micropurge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2		40ml	HCl	MNA GASES
2		40ml	HCl	VOCs
2		40ml	HCl	1,4-Dioxane
1		250 ml	—	Alkalinity
1		250 ml	H_2SO_4	TOC
1		500 ml	ZN + NaOH	Sulfide
1		500 ml	—	TDS

Start Purge 1127 End Purge - 1246 Sample - 1300

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-7/DRW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/19/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 11:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Rainy 50s	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.36
Depth of Well (feet): 60.05
Water Column (feet): 22.69
Casing Volume (gallons/liters): 14.82
Calculated Purge Volume (gallons/liters): 44.46
Actual Purge Volume (gallons/liters): 2.40
Pump Intake Depth (feet): 52

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.18

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9.45	0								PURGE START
10.00	0.50	13.86	6.96	2.35	204.9	807	25.71	37.71	clear
1005	0.70	13.87	6.92	1.91	148.8	809	22.14	37.97	"
1010	0.90	13.83	6.91	1.72	144.7	808	20.20	38.18	"
1015	1.0	13.45	6.91	1.22	141.1	807	18.17	38.37	"
1020	1.20	13.42	6.90	1.12	187.3	806	17.45	38.58	
1025	1.30	13.40	6.91	1.12	184.8	805	15.85	38.73	"
1030	1.45	13.81	6.91	1.04	182.3	805	15.18	38.88	"
1035	1.60	13.75	6.90	0.93	180.0	804	14.29	39.00	"
1040	1.80	13.80	6.90	0.87	174.1	803	12.61	39.12	"
1050	2.10	13.83	6.90	0.87	174.8	803	11.94	39.30	"
1055	2.25	13.71	6.90	0.75	173.1	803	11.05	39.36	"
1100	2.30	13.68	6.90	0.74	171.4	802	9.64	39.42	"
1105	2.50	13.68	6.90	0.74	170.4	802	9.87	39.50	"
1110	2.70	13.64	6.90	0.67	169.3	802	9.65	39.51	"
1115	2.80	13.67	6.90	0.66	168.4	801	8.57	39.59	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556 MPS	3/19/2015
Turbidimeter	Scientific Inc.	MicroTPW	3/19/2015
Colorimeter	Hach		

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
DMW-7/DRW-1	VOC	40 mL HDPE	HCl	
"	MNA	"	"	
"	1,4 Dioxane	"	"	
"	Alkalinity	250 mL HDPE	—	
"	TOC	"	H_2SO_4	
"	Sulfate	500 mL "	NaOH	
"	Iron	" "	"	

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Groundwater Sampling Record

WELL No. DMW-9/DRW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-19-15
SAMPLE No. DMW-9/DRW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKELLER / EARTHCON	/EarthCon
SAMPLE TIME: 12:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Lt. Rain	

Well Condition Inspection (circle one)

cover: locked ~~not locked~~ Flush RW
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.76
Depth of Well (feet): 63.30
Water Column (feet): 26.54
Casing Volume (gallons/liters): 17.3
Calculated Purge Volume (gallons/liters): 51.9
Actual Purge Volume (gallons/liters): 3.5
Pump Intake Depth (feet): 58'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks: faint sulfur-like odor, water colorless
Ferrous Iron (mg/L): 2.49 mg/L

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:29	0								
11:30	0.25	14.90	5.11	1.66	78.5	523	6.21	37.0	PURGE START
11:35	0.5	15.09	5.25	1.36	60.7	523	4.23	37.05	
11:40	0.8	15.23	5.29	1.33	50.7	508	4.72	37.08	
11:50	1.4	15.13	5.39	1.50	47.9	496	4.96	37.12	
11:55	1.75	15:30	5.44	1.64	47.6	498	6.08	37.16	
12:00	2.1	15.30	5.47	1.56	47.0	504	6.33	37.2	
12:05	2.5	15.14	5.51	1.77	47.3	503	5.43	37.2	
12:10	2.80	15.07	5.54	1.98	50.2	511	6.17	37.2	
12:15	3.1	15.04	5.56	2.00	50.7	512	5.81	37.2	
12:20	3.5	15.09	5.56	2.04	51.4	514	4.92	37.21	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH and Temp DO ORP	YSI	556	3-19-15
Turbidimeter	Hach	2100Q	3-19-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
DMW-9/DRW-3	VOC, 1,4 Dioxane, MNA	6 VOA: 40 ml	w/ HCl	
	ION	1-500 ml HDPE		
	Sulfide	1-500 ml HDPE	w/ ZnAcet + NaOH	
	Alk	1-250 ml HDPE		
	TOC	1-250 ml HDPE	w/ H_2SO_4	

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-18-15
SAMPLE No. OBG-W1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKeller / EARTHCON	/EarthCon
SAMPLE TIME: 17:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER mostly cloudy 60's	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: legible (not legible) marked
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

✓ potable water and phosphate-free soap
- potable water rinse
✓ water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	27.82	Measuring Point Elevation (feet):	
Depth of Well (feet):	46.30	Groundwater Surface Elevation:	
Water Column (feet):	18.48	LNAPL present: no	thickness: no
Casing Volume (gallons/liters):	3.0	DNAPL present: no	thickness: no
Calculated Purge Volume (gallons/liters):	9	Remarks: well very turbid - may need surging	
Actual Purge Volume (gallons/liters):	4.9		
Pump Intake Depth (feet):	41.0	Ferrous Iron (mg/L):	0.03 mg/L HACH 820 / Ferrous Iron AquaVac

Well Evacuation

Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
~~15:05~~ 15:09 (AD)	0								PURGE START
16:10	0.4	17.24	4.87	4.07	225.1	109	958	28.02	Turbid-Tan
16:15	0.75	17.25	5.00	3.73	225.4	108	911	28.05	
16:20	1.1	17.33	5.11	3.58	230.5	107	610	28.05	
16:25	1.4	17.31	5.13	3.57	232.0	107	379	28.07	
16:30	1.6	17.29	5.15	3.53	233.1	109	257	28.03	
16:35	1.9	17.30	5.21	3.41	234.3	114	174	28.06	
16:40	2.1	17.28	5.27	3.30	—	119	109	28.01	
16:45	2.4	17.25	5.31	3.19	232.3	123	94.1	28.00	
16:50	2.8	17.24	5.35	3.22	232.0	125	90.8	27.99	
16:55	3.1	17.24	5.34	3.24	231.4	128	74.2	27.97	
17:00	3.5	17.30	5.38	3.20	230.5	134	65.3	27.98	
17:05	3.9	17.15	5.40	3.33	230.8	136	61.4	28.00	
17:10	4.2	17.16	5.41	3.41	231.8	138	60.1	28.00	
17:15	4.5	17.19	5.42	3.49	231.7	139	57.7	28.01	
17:20	4.9		5.46	3.49	232.5	142	51.0	28.01	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH-Cond-Temp-DO-ORP	YSI	556	3-18-15
Turbidimeter	Hach	2100Q	3-18-15
Bladder Pump	Geotech	GeoSonical Pro / SS Bladder Pump Teflon Bladder	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
OBG-W1	VOC, 1,2 Dioxane, MVA	6 VOAs 40ml	HCl	Parameters stable - turbidity
↓	Sulfide	1-500ml HDPE	ZnAcet NaOH	dropping very slowly - not purgeable
	Iron	" N	—	to well - sample @ 51.0 NTUs
	Alk	1-250ml HDPE	—	
↓	TOC	" "	H_2SO_4	

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W7	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-19-15
SAMPLE No. OBG-W7	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKIBLER / EARTHCON	/EarthCon
SAMPLE TIME: 10:20	SITE Dalton, GA	FIELD CONDITIONS/WEATHER RAIN 60F	

Well Condition Inspection (circle one) FLUSH

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.7
Depth of Well (feet): 47.03
Water Column (feet): 9.33
Casing Volume (gallons/liters): 6.09
Calculated Purge Volume (gallons/liters): 18.3
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 42

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.10 mg/L 7 Hach 820 / Ferrous Iron Accuvac

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:21	0								
9:35	0.25	15.03	5.48	4.79	211.5	618	4.07	37.85	PURGE START hose kinked
9:40	0.5	15.27	5.54	3.00	181.4	620	2.70	37.85	
9:45	0.75	15.03	5.60	2.46	167.7	622	2.37	37.85	
9:50	1.0	15.01	5.60	2.33	165.9	620	1.72	37.86	
9:55	1.25	15.59	5.65	1.79	152.3	621	1.41	37.90	
10:00	1.50	15.60	5.66	1.74	150.4	621	1.80	37.95	
10:05	1.75	15.42	5.63	1.44	142.6	621	1.47	37.95	
10:10	2.1	15.60	5.68	1.40	141.6	621	0.99	37.92	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH-Cond-Temp DO ORP	YSI	556	3-19-15
Turbidimeter	Hach	2100Q	3-19-15
Bladder Pump	Geotech	Geo Control PRO / SS Pump	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
OBG-W7	VOC, 1,4 Dioxane, MNA	6-40ml VOA	HCl	
↓	ION	1-500ml HDPE	—	
	Sulfide	" "	Zn Acc / NaOH	
	Alk	1-250ml HDPE	—	
↓	TOC	" "	H_2SO_4	

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Groundwater Sampling Record

WELL No. MW-2210	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 18:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 28.16
Depth of Well (feet): 67.54
Water Column (feet): 39.38
Casing Volume (gallons/liters): 6.42
Calculated Purge Volume (gallons/liters): 19.26
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 57'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.02

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

	TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0655	~~1455~~	0								PURGE START
705	~~1505~~	0.05	16.42	6.91	6.02	217.9	568	398.2	28.41	slight cloudy
710	~~1510~~	0.40	16.15	6.83	2.82	184.0	582	377.9	28.36	"
715	~~1515~~	0.50	16.25	6.82	1.98	170.2	581	212.5	28.29	"
725	~~1525~~	0.60	16.76	6.83	1.35	159.8	584	15.11	28.37	clear
730	~~1530~~	0.80	15.90	6.81	1.27	150.2	585	10.19	28.52	"
735	~~1535~~	1.0	15.83	6.81	0.70	145.6	584	12.45	28.48	"
740	~~1540~~	1.15	15.81	6.80	0.51	144.5	581	25.19	28.45	"
745	~~1545~~	1.25	15.76	6.78	0.45	142.7	576	25.26	28.37	"
750	~~1550~~	1.65	15.67	6.78	0.42	142.6	573	23.88	28.34	"
755	~~1555~~	1.80	15.55	6.78	0.45	140.6	571	17.87	28.42	"
	1800	2.0	15.55	6.78	0.46	138.2	571	12.71	28.41	"
	1810	2.25	15.48	6.78	0.44	136.7	571	8.14	28.48	"
	1815	2.40	15.42	6.77	0.45	135.8	571	6.54	28.35	"
	1820	2.55	15.40	6.77	0.47	133.5	571	5.36	28.43	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Turbidometer	Scientific In	Micro TPW	3/18/15
Water Quality Parameter	YSI	556 MPS	3/18/15
Colorimeter	Hach	DR 1820	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/		PRESERVATIVES	QA REMARKS
MW-2210	VOC	40 mL	HDPE	HCl	
"	MNAF	"	"	"	
"	1,4 Dioxane	"	"	"	
"	Alkalinity	250 mL	HDPE	—	
"	TOC	"	"	H_2SO_4	
"	Sulfide	500 mL	"	NaOH	
"	Ions	"	"		

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-17-15
SAMPLE No. AMW-1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: 1845	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 70°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 17.88
Depth of Well (feet): 28.67 (measured 3/16/15)
Water Column (feet): 10.79
Casing Volume (gallons/liters): 1.76
Calculated Purge Volume (gallons/liters): 5.28
Actual Purge Volume (gallons/liters): 2.75
Pump Intake Depth (feet): 22 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness: —
DNAPL present: NA thickness: —
Remarks:
Ferrous Iron (mg/L): 0.08 mg/L

Well Evacuation

Water level recovery is: very slow (slow) moderate fast

Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
.75 1655	0								PURGE START
1800	0.25	15.10	5.85	7.02	176.5	61	12.60	19.19	
1803	0.5	15.04	5.71	7.10	172.3	59	9.48	19.41	
1805	0.75	15.05	5.62	7.26	171.6	57	9.24	19.50	
1809	1.0	15.25	5.59	7.12	168.2	57	10.63	19.43	
1813	1.25	15.28	5.58	7.09	166.8	57	12.05	19.34	
1818	1.5	15.34	5.57	7.37	165.1	58	11.59	19.26	
1824	1.75	15.40	5.57	7.01	166.4	58	12.49	—	
1830	2.0	15.35	5.57	7.01	163.1	58	12.04	19.00	
1835	2.25	15.15	5.56	7.54	168.8	59	9.15	19.14	
1839	2.5	15.05	5.55	7.46	171.4	58	8.59	19.27	
1844	2.75	14.98	5.53	8.15	169.2	57	7.56	19.38	
1845	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Parameters	YSI	556-13E100655	3-17-15
Turbidimeter	Micro TPM	59446	3-17-15
Peristaltic Pump	Geotech	Geopump II	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
AMW-1	VOCs/1,4-Dioxane	4 voa 40-ml w/ HCl	
↓	MNA Gases	2 voa 40-ml w/ HCl	
	Ion	1 500-ml HDPE	
	Sulfide	1 500-ml HDPE w/ ZnAc+ + NaOH	
	TOC	1 250-ml HDPE w/ H_2SO_4	
↓	alkalinity	1 250-ml HDPE	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-17-15
SAMPLE No. AMW-2	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY J Brown / K Henry / EARTHCON	/EarthCon
SAMPLE TIME: 17:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER mostly clear 70's breezy	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.74	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.42	Groundwater Surface Elevation:	
Water Column (feet):	11.68	LNAPL present: NO	thickness: N/A
Casing Volume (gallons/liters):	1.9	DNAPL present: NO	thickness: N/A
Calculated Purge Volume (gallons/liters):	5.7	Remarks:	
Actual Purge Volume (gallons/liters):	20		
Pump Intake Depth (feet):	35'	Ferrous Iron (mg/L):	

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:27	0								PURGE START
16:40	0.25	17.39	5.84	6.65	182.4	160	40.4	29.8	Color less
16:45	0.7	16.83	5.24	6.39	194.6	160	14.4	29.5	odorless
16:50	1.0	16.78	5.20	6.18	202.4	159	4.75	29.5	
16:55	1.4	16.75	5.24	5.93	209.2	157	4.44	29.5	
17:00	1.7	16.70	5.29	5.83	210.2	157	2.79	29.5	
17:05	2.0	16.	5.30	5.80	210.7	156.	2.40	29.49	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH-cond-temp DO ORP	YSI	556	3-17-15
Turbidimeter	HACH	2100Q	3-17-15
SS Bladder Pump	Geotech	Gas Controller Pump / SS Bladder Pump	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-2	VOC	2-VOA 40ml	HCl	
	1,2 Dioxan	2 VOA 40ml	HCl	
	MNA	2 VOA 40ml	HCl	
	Sulfide	1 500 ml HDPE	Zn Ace / NaOH	
	ION	1 500 ml HDPE		
	TOC	1 250 ml HDPE	H_2SO_4	
	Alk	1 250ml HDPE	—	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 1050	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 50's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 25.48
Depth of Well (feet): 33.91
Water Column (feet): 7.43
Casing Volume (gallons/liters): 1.29
Calculated Purge Volume (gallons/liters): 3.88
Actual Purge Volume (gallons/liters): 1.55
Pump Intake Depth (feet): 27

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.03

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:35	0								PURGE START
9:42	-	12.66	5.22	7.57	234.8	213	15.43	26.01	clear
9:47	0.10	13.01	5.06	7.40	246.9	222	13.41	26.04	"
9:52	0.20	13.12	5.01	7.65	252.2	234	9.60	26.08	"
9:57	0.25	13.27	4.92	7.16	255.7	257	6.85	26.05	"
10:02	0.35	13.32	4.87	7.19	277.1	283	6.01	26.05	"
10:07	0.55	13.31	4.84	7.10	282.7	248	5.19	26.08	"
10:12	0.75	13.30	4.81	6.95	289.6	311	5.85	26.10	"
10:17	0.90	13.34	4.78	7.22	295.9	326	5.46	26.12	"
10:22	1.10	13.31	4.75	7.14	304.4	349	3.99	26.11	"
10:27	1.20	13.31	4.73	7.31	311.2	355	3.58	26.16	"
10:32	1.35	13.42	4.73	7.13	313.3	367	3.05	26.08	"
10:37	1.45	13.33	4.72	7.20	320.5	375	3.85	26.09	"
10:42	1.55	13.38	4.71	7.15	323.9	387	3.53	26.11	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Microcontroller		MP-10	N/A
	YSI	556 MPS	3/18/15
Micro	TPW		3/18/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-3	VOC	40 mL HDPE	HCl	
"	MNA Gas	"	"	
"	1,4 Dioxane	"	"	
"	Alkalinity	250 mL		
"	TOC	"	H_2SO_4	
"	Sulfide	500 mL "	NaOH	
"	Ions	" "		

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-18-15
SAMPLE No. AMW-8	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKRUER / EARTHCON	/EarthCon
SAMPLE TIME: 1035	SITE Dalton, GA	FIELD CONDITIONS/WEATHER OVERCAST	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

✓ potable water and phosphate-free soap
✓ potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	26.91	Measuring Point Elevation (feet):	
Depth of Well (feet):	37.44	Groundwater Surface Elevation:	
Water Column (feet):	10.53	LNAPL present: NO	thickness: NA
Casing Volume (gallons/liters):	1.71	DNAPL present: NO	thickness: NA
Calculated Purge Volume (gallons/liters):	5.1	Remarks:	
Actual Purge Volume (gallons/liters):	4.0		
Pump Intake Depth (feet):	32	Ferrous Iron (mg/L):	0.00 w/ Hach 820 / Accuvac Ferrous Iron

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:20	0								PURGE START
9:25	0.3	13.80	6.23	5.12	210.9	291	29.1	27.35	colorless, odor
9:30	0.6	14.43	6.28	4.87	~~280~~ 208.9	280	23.8	28.25	
9:35	1.0	14.43	6.28	5.28	203.2	258	34.0	29.40	Slow pump
9:40	1.4	14.46	6.28	5.40	203.3	253	36.4	29.8	Slow pump
9:45	1.8	14.43	6.31	5.35	203.4	252	33.4	30.1	
9:50	2.2	14.42	6.33	5.44	202.9	255	26.5	30.5	Slow pump
9:55	2.5	14.11	6.40	5.07	202.3	258	23.9	30.3	
10:00	2.8	14.10	6.40	5.04	202.2	259	21.0	30.2	Slow pump
10:05	3.0	14.23	6.42	4.93	201.5	261	17.8	29.9	
10:10	3.2	14.94	6.44	4.85	201.0	263	14.7	29.89	
10:15	3.4	14.20	6.47	4.64	199.1	266	12.4	29.87	
10:20	3.6	14.23	6.49	4.63	197.8	267	10.3	29.85	
10:25	3.8	14.21	6.49	4.60	197.2	268	9.38	29.85	
10:30	4.0	14.11	6.50	4.49	195.1	269	8.68	29.84	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH-cond-Temp-DO-ORP	YSI	556	3-18-15
Turbidimeter	Hach	2100Q	3-18-15
Bladder Pump + Controller	Geotech	GeoSystem PRO / SS Pump Teflon bladder	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-8	VOC	2 VOA 40ml	HCl	
	1,2 Dioxane	" "	"	
	MNA	" "	"	
	Sulfides	1-500ml HDPE	ZnAct/NaOH	
	Iron	" "	—	
	TOC	1-250ml HDPE	H_2SO_4	
	Alk	1-250ml HDPE		

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Groundwater Sampling Record

WELL No. AMW-10	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/18/2015
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 1430	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Cloudy, 60's	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 24.08
Depth of Well (feet): 34.81
Water Column (feet): 10.73
Casing Volume (gallons/liters): 1.75
Calculated Purge Volume (gallons/liters): 5.25
Actual Purge Volume (gallons/liters): 1.50
Pump Intake Depth (feet): 28

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.02 mg/L

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1520	0								PURGE START
1330		15.51	6.05	6.56	226.7	163	24.32	24.35	clear
1335	0.10	15.40	5.99	6.83	217.3	161	15.01	24.40	"
1340	0.30	15.54	5.98	6.50	209.4	161	11.17	24.44	"
1345	0.50	15.42	5.98	6.43	201.9	161	10.03	24.42	"
1350	0.70	15.23	5.97	6.50	197.1	161	5.45	24.44	"
1355	0.80	15.05	5.94	6.20	193.1	161	3.98	24.40	"
1400	0.95	14.99	5.94	6.16	188.2	161	2.61	24.46	"
1405	1.15	15.20	5.96	6.03	184.7	162	1.55	24.43	"
1410	1.25	15.57	5.97	5.74	179.9	161	1.84	24.49	"
1415	1.35	15.49	5.96	5.73	176.6	162	1.53	24.47	"
1420	1.50	15.31	5.96	5.76	173.7	162	1.86	24.45	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Turbidimeter	Scientific In	Micro TPW	3/18/15
Water Quality Parameter Meter	YSI	556 MPS	3/18/15
Colorimeter	Hach	DR 1820	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-10	VOC	40 mL HDPE	HCl	
"	MNA	"	"	
"	1,4 Dioxane	"	"	
"	Alkalinity	250 mL	—	
"	TOC	"	H_2SO_4	
"	Sulfide	500 mL	NaOH	
"	Ions	500 mL	—	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-11D	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-18-15
SAMPLE No. AMW-11D	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKeller / EARTHCON	/EarthCon
SAMPLE TIME: 13:20	SITE Dalton, GA	FIELD CONDITIONS/WEATHER mostly cloudy 60's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

✓potable water and phosphate-free soap
- potable water rinse
✓water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 21.20 (measured after pump installed)
Depth of Well (feet): 90.00
Water Column (feet): 68.80
Casing Volume (gallons/liters): 11.21
Calculated Purge Volume (gallons/liters): 33.6
Actual Purge Volume (gallons/liters): 1.1
Pump Intake Depth (feet): 85

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: no thickness: no
DNAPL present: no thickness: no
Remarks: Well not recharging; removing water from casing to collect sample before significant drawdown occurs
Ferrous Iron (mg/L):

Well Evacuation

Water level recovery is: Extremely slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START
12:05	0	—	—	—	—	—	—	—	
12:10	0.2	14.06	7.34	7.38	162.0	422	3.14	—	odorless/
12:15	0.4	14.06	7.28	3.92	158.0	422	2.35	22.55	colorless
12:20	0.5	14.39	7.29	2.84	152.4	422	2.62	23.31	
12:30	0.6	14.71	7.32	3.17	145.0	422	2.16	24.66	
12:40	0.8	14.68	7.32	3.44	144.3	423	2.39	26.15	
12:50	~~0.9~~ 1.1	14.70	7.34	3.30	144.8	423	2.38	27.30	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH/cond/temp DO ORP	YSI	556	3-18-15
Turbidimeter	Hach	2100Q	3-18-15
Bladder Pump	Geotech	GeoTechnical Pro / 85 Bladder Pump	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-11D	~~VOA~~ VOCs, 1,2 Dioxane	4 VOA: 40mL	HCl	
↓	MNA	2 VOA: 40mL	HCl	
	Sulfide	1-500mL HDPE	w/ Zn Act. + NaOH	
	ION	" "	— NONE —	
	TOC	1-250mL HDPE	w/ H_2SO_4	
↓	Alk	" "	—	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-12	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/19/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1620	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 50° Rain	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 35.79
Depth of Well (feet): 47.41
Water Column (feet): 11.62
Casing Volume (gallons/liters): 1.9
Calculated Purge Volume (gallons/liters): 5.7
Actual Purge Volume (gallons/liters): 1.5
Pump Intake Depth (feet): ≈45'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.01

Well Evacuation

Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1515	0								PURGE START
1525	—	14.50	7.27	6.23	-113.7	401	14.56	36.97	
1530	0.25	14.38	7.27	5.11	-114.8	395	3.66	37.13	
1540	0.7	14.39	7.34	5.05	-114.0	394	3.59	37.36	
1550	1.0	14.44	7.37	5.27	-109.6	393	3.23	37.55	
1600	1.3	14.42	7.38	5.35	-103.6	393	2.78	37.69	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/19/15
Turbidity	HF Scientific	MicroTPW 20000	3/19/15
Bladder Pump	QED	Micropurge well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
2		40ml / HCl	MNA GASES
2		40ml / HCl	VOCs
2		40ml / HCl	1,4-DIOXANE
1		250ml / —	ALKALINITY
1		250ml / H_2SO_4	TOC
1		500ml / 2N-NaOH	SULFIDE
1		500ml / —	IONS

Start purge - 1515 End purge - 1602 Sample - 1620

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-13	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K Davis	/EarthCon
SAMPLE TIME: 1250	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 54° Partly Cloudy	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 33.12
Depth of Well (feet): 47.41
Water Column (feet): 14.29
Casing Volume (gallons/liters): 2.33
Calculated Purge Volume (gallons/liters): 7.0
Actual Purge Volume (gallons/liters): 3.0
Pump Intake Depth (feet): ≈45'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1106	0								PURGE START
1115	—	14.92	6.46	4.31	-102.4	771	146.6	33.80	
1125	0.5	15.32	6.43	0.76	-117.0	774	60.15	34.06	
1135	0.8	15.31	6.40	0.55	-119.3	772	46.11	34.16	
1145	1.2	15.43	6.41	0.48	-127.4	771	41.50	34.16	
1155	1.5	15.47	6.41	0.46	-132.8	768	35.50	34.14	
1205	1.8	15.41	6.41	0.44	-139.8	765	31.26	34.03	
1215	2.1	15.29	6.41	0.41	-139.1	763	27.01	34.03	
1225	2.5	15.34	6.41	0.41	-141.3	760	23.94	34.07	
1235	2.8	15.48	6.42	0.43	-137.1	758	19.03	34.03	
							13.92 @ Sampling		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/18/15
Turbidity	HF Scientific	MICROTPW 20000	3/18/15
Bladder Pump	QED	Micro purge well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2		40ml	HCl	MNA Gases
2		40ml	HCl	VOCs
2		40ml	HCl	1,4-Dioxane
1		250ml	—	Alkalinity
1		250ml	H_2SO_4	TOC
1		500ml	2N-NaOH	Sulfide
1		500ml	—	Ions

Start purge - 1106 End purge - 1237 Sample - 1250

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-14	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Tom Keller / Keaton Henry /EarthCon	
SAMPLE TIME: 1450	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 70's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter:
(circle one)
2" 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 33.47
Depth of Well (feet): 49.90
Water Column (feet): 16.43
Casing Volume (gallons/liters): 2.68
Calculated Purge Volume (gallons/liters): 8.0
Actual Purge Volume (gallons/liters): 2.2
Pump Intake Depth (feet): 42

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START
1420	0.50	16.77	5.41	2.35	183.2	187	22.2	33.81	clear
1425	0.70	16.71	5.15	2.44	105.3	179	11.0	33.87	"
1430	0.95	16.54	5.17	2.01	172.7	156	7.9	33.91	"
1435	1.15	16.38	5.25	1.69	164.7	149	5.07	33.95	"
1440	1.40	16.38	5.22	1.61	167.1	145	3.85	33.96	"
1445	1.60	16.48	5.13	1.50	170.4	143	3.14	34.00	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump Controller	Geotech	Geo Control / Pro	N/A
Turbiometer	Hach	2100 Q	3/17/15
	YSI	556 MPS	3/17/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-14	Ion Scan	500 mL	HDPE	
"	Sulfide	500 mL	HDPE	
"	Alkalinity	250 mL	HDPE	
"	TOC	250 mL	HDPE	
"	VOC	40 mL	HDPE	
"	Methane	40 mL	HDPE	
"	1,4, Dioxane	40 mL	HDPE	

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Groundwater Sampling Record

WELL No. AMW-15	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/15
SAMPLE No. AMW-15	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: ~~1450~~ SNW 1505	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 75°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 11.89
Depth of Well (feet): 22.85 (measured 3/16/15)
Water Column (feet): 10.96
Casing Volume (gallons/liters): 1.78
Calculated Purge Volume (gallons/liters): 5.34
Actual Purge Volume (gallons/liters): 2.0
Pump Intake Depth (feet): 18 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness: —
DNAPL present: NA thickness: —
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1415	0								PURGE START
1420	0.25	15.55	5.82	8.04	105.4	82	6.11	13.21	clear/
1425	0.5	15.48	5.60	7.82	136.2	75	6.11	13.42	odorless
1430	0.75	15.40	5.58	7.57	145.7	75	5.05	13.63	
1433	1.0	15.83	5.59	7.36	153.3	73	6.62	13.78	
1438	1.25	15.67	5.61	7.58	155.8	74	4.81	13.95	
1441	1.5	15.48	5.57	7.69	159.3	72	3.98	14.17	
1445	1.75	15.15	5.48	7.40	167.0	67	4.80	14.35	
1449	2.0	15.23	5.44	7.14	170.2	66	4.40	14.53	
SNW ~~1450~~	SAMPLE								
1505									

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Parameters	YSI	556 - 13E100655	3-17-15
Turbidimeter	Micro TPM	59446	3-17-15
Peristaltic Pump	Geotech	Geopump II	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
AMW-15	VOCs / 1,4-Dioxane	4 voa 40-ml w/ HCl	
	MNA Gases	2 voa 40-ml w/ HCl	
	Ion	1 500-ml HDPE	
	Sulfide	1 500-ml HDPE w/ ZnAc + NaOH	
	TOC	1 250-ml HDPE w/ H2SO4	
	Alkalinity	1 250-ml HDPE	

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Groundwater Sampling Record

WELL No. AMW-16	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3-17-15
SAMPLE No. AMW-16	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Wolf /EarthCon	
SAMPLE TIME: 1640	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 70°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 21.74
Depth of Well (feet): 34.55 (measured 3/16/15)
Water Column (feet): 12.81
Casing Volume (gallons/liters): 2.09
Calculated Purge Volume (gallons/liters): 6.26
Actual Purge Volume (gallons/liters): 1.75
Pump Intake Depth (feet): 30 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness: —
DNAPL present: NA thickness: —
Remarks: PVC well cap
Ferrous Iron (mg/L): 0.02 mg/L

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1612	0								PURGE START
1618	0.25	15.81	6.51	5.81	141.8	207	7.36	21.83	
1622	0.5	15.65	6.48	5.46	136.3	207	8.77	21.84	
1625	0.75	15.52	6.49	5.55	132.8	215	6.42	21.84	
1628	1.0	15.49	6.54	5.63	131.1	230	5.40	21.84	
1632	1.25	15.52	6.62	5.40	128.1	246	4.00	21.84	
1635	1.5	15.52	6.72	5.43	126.0	252	3.18	21.84	
1639	1.75	15.54	6.80	5.19	124.5	256	2.84	21.84	
1640	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Parameters	YSI	556 - 13E100655	3-17-15
Turbidimeter	Micro TPW	59446	3-17-15
Peristaltic Pump	Geotech	Geopump II	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
AMW-16	VOCs/1,4-Dioxane	4 VOA 40-ml w/ HCl	
	MNA Gases	2 VOA 40-ml w/ HCl	
	Ion	1 500-ml HDPE	
	sulfide	1 500-ml HDPE w/ $2nAc^+ + NaOH$	
	TOC	1 250-ml HDPE w/ H_2SO_4	
	Alkalinity	1 250-ml HDPE	

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Groundwater Sampling Record

WELL No. AMW-20	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/2015
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Tom Keller, Keaton Henry /EarthCon	
SAMPLE TIME: 11:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 60's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 31.89
Depth of Well (feet): 41.07
Water Column (feet): 9.18
Casing Volume (gallons/liters): 1.50
Calculated Purge Volume (gallons/liters): 4.50
Actual Purge Volume (gallons/liters): 1.45
Pump Intake Depth (feet): 35.00

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1036	0								PURGE START
1040	0.20	16.04	5.25	7.36	227.6	48	14.0	31.93	clear
1045	0.45	15.77	5.16	6.43	~~1044~~	46	12.1	31.97	"
1050	0.60	15.67	5.14	6.29	259.6	46	11.3	31.95	"
1055	0.75	15.85	5.17	6.13	~~[illegible]~~ 258.7	46	9.93	31.90	"
1100	1.00	15.86	5.19	6.13	261.0	46	9.18	31.95	"
1105	1.20	15.91	5.21	6.05	256.2	46	9.93	31.96	"
1110									

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump Controller	Geotech	Geo Control / PRO	N/A
P	YSI	556 MPS	3/17/15
Turbidimeter	Hach	2100 Q	3/17/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
AMW-20	VOC	40 mL HDPE		
"	Methane	40 mL HDPE		
"	1,4, Dioxane	40 mL HDPE		
"	Ion Scan	500 mL HDPE		
"	Alkalinity	250 mL HDPE		
"	TOC	250 ml HDPE		
"	Sulfide	500 mL		

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Groundwater Sampling Record

WELL No. AMW-21	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY R. Davis	/EarthCon
SAMPLE TIME: 1520	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 70° Partly Cloudy	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	34.86	Measuring Point Elevation (feet):	
Depth of Well (feet):	45.75	Groundwater Surface Elevation:	
Water Column (feet):	10.89	LNAPL present:	thickness:
Casing Volume (gallons/liters):	1.78	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	5.33	Remarks:	
Actual Purge Volume (gallons/liters):	1.8		
Pump Intake Depth (feet):	≈ 43'	Ferrous Iron (mg/L):	0.00

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1410	0								PURGE START
1410	—	18.60	6.17	9.55	-42.8	174	41.68	34.85	Sly turbid
1425	0.3	17.79	5.74	6.99	-16.3	167	49.25	34.87	
1435	0.7	17.82	5.96	6.79	-8.4	165	28.90	34.87	
1445	1.0	17.84	6.03	6.70	2.7	164	20.61	~~20.61~~ 34.89	
1455	1.4	17.31	5.99	6.65	13.6	163	11.45	34.85	
1505	1.7	17.00	6.01	6.64	17.4	162	4.35	34.85	Clear

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/17/15
Turbidity	HF Scientific	MICRO TPW 20000	3/17/15
Bladder pump	QED	Micro purge well wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2		40ml	HCl	MNA Gases
2		40ml	HCl	VOC
2		40ml	HCl	1,4-Dioxane
1		250ml	—	Alkalinity
1		250ml	H_2SO_4	TOC
1		500ml	2N NaOH	Sulfide
		50ml	—	Ions

Start purge - 1410
End purge - 1500
Sample - 1520

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-12	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1815	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 77° Dry Cloudy	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.77
Depth of Well (feet): 53.52
Water Column (feet): 25.75
Casing Volume (gallons/liters): 4.2
Calculated Purge Volume (gallons/liters): 12.6
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ≈50

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1637	0								PURGE START
1643	–	17.25	7.04	6.97	-82.5	339	54.36	28.10	Pushed
1655	~~0.9~~ 0.4	17.21	7.01	4.65	-82.0	341	66.73	28.42	
1705	~~1.25~~ 0.75	16.98	7.09	4.48	-68.5	342	60.23	28.68	
1715	1.0	16.54	7.09	4.32	-60.3	341	100.2	28.95	
1725	1.5	16.64	7.13	4.25	-57.7	341	113.8	29.06	Tacked
1735	1.75	16.67	7.15	4.44	-55.2	341	117.3	29.17	
1745	2.0	16.83	7.17	4.17	-55.0	342	115.8	29.29	
1755	2.4	17.06	7.18	4.17	-53.4	342	96.37	29.25	
1805	2.7	16.87	7.17	4.25	-53.6	342	105.6	29.26	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/17/15
Turbidity	HF Scientific	MicroTPW 20000	3/17/15
Bladderpump	QED	Micropurge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2		40ml	HCl	MNA Gases
2		40ml	HCl	VOCs
2		40ml	HCl	1,4-Dioxane
1		250ml	–	Alkalinity
1		250ml	H_2SO_4	TOC
1		500ml	2N-NaOH	Sulfide
1		500ml	–	Ions

Start purge - 1537 End purge - 1808 Sample - 1815

EARTHCON®

Groundwater Sampling Record

WELL No. ARW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K Davis	/EarthCon
SAMPLE TIME: 1005	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 47° Cloudy	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 26.36
Depth of Well (feet): 44.94
Water Column (feet): 18.58
Casing Volume (gallons/liters): 12.1
Calculated Purge Volume (gallons/liters): 36.4
Actual Purge Volume (gallons/liters): 1.6
Pump Intake Depth (feet): ≈ 42.5'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.01

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0906	0								PURGE START
0913	—	13.36	6.91	6.66	-57.3	347	20.51	26.45	
0920	0.4	13.75	7.15	4.36	-79.7	349	3.35	26.47	
0930	0.7	13.89	7.21	3.85	-88.1	350	0.54	26.47	
0940	1.0	13.94	7.23	3.63	-94.3	350	0.00	26.50	
0950	1.4	13.95	7.24	3.65	-102.1	350	0.63	26.48	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/18/15
Turbidity	HFS/Quanta	MicroTPW 20002	3/18/15
Bladder Pump	QED	Micropurge well wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
2		40ml / HCl	MNA Gases
2		40ml / HCl	VOCs
2		40ml / HCl	1-4 - Dioxane
1		250ml / —	Alkalinity
1		250ml / H_2SO_4	TOC
1		500ml / 2N - NaOH	Sulfide
1		500ml / —	Ions

Start purge -0906 End purge -0952 Sample -1005

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Groundwater Sampling Record

WELL No. ARW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 5/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1940	SITE Dalton, GA	FIELD CONDITIONS/WEATHER 63° Partly Cloudy	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653); 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 34.28
Depth of Well (feet): 60.21
Water Column (feet): 25.93
Casing Volume (gallons/liters): 16.9
Calculated Purge Volume (gallons/liters): 50.8
Actual Purge Volume (gallons/liters): 2.35
Pump Intake Depth (feet): ≈57'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.05

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1810	0								PURGE START
1817	—	16.92	7.16	9.68	-60.6	431	262.7	—	
1825	~~0.50~~ 0.25	16.99	7.25	9.88	-13.0	448	124.2	34.75	
1835	0.60	16.97	7.39	10.32	6.8	447	108.2	34.93	
1845	0.90	16.86	7.44	10.46	17.4	445	86.78	34.78	
1855	1.2	16.49	7.52	10.53	20.6	442	78.76	35.05	
1905	1.5	16.31	7.55	10.63	19.4	441	66.98	34.92	
1915	1.8	16.21	7.59	10.71	18.2	439	70.61	35.00	
1925	2.2	16.13	7.61	10.96	13.9	438	66.04	35.15	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	5/18/15
Turbidity	HF Scientific	MICROTPW 20000	5/18/15
Bladder Pump	QED	Micropurge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2		40ml	HCl	MVA Gases
2		40ml	HCl	~~VOCs~~ VOCs
2		40ml	HCl	1,4-Dioxane
1		250ml	—	Alkalinity
1		250ml	H2SO4	TOC
1		500ml	2N-NaOH	Sulfide
1		500ml	—	Ions

Start purge 1810 End purge -1927 Sample -1940

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Groundwater Sampling Record

WELL No. ARW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K Davis	/EarthCon
SAMPLE TIME: 1135	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny 57°	

Well Condition Inspection (circle one)

cover: locked **not locked**
number: **legible** not legible
outer casing: **good** fair poor
inner casing: **good** fair poor
well photographed: yes **no**

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" **4"** 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; **4" = 0.653;** 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 30.40
Depth of Well (feet): 52.46
Water Column (feet): 22.06
Casing Volume (gallons/liters): 14.4
Calculated Purge Volume (gallons/liters): 43.2
Actual Purge Volume (gallons/liters): 20
Pump Intake Depth (feet): 3 Feet From Bottom ≈ 50'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.01

Well Evacuation
Water level recovery is: very slow slow moderate **fast**
Bailed dry: yes **no**

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1016	0								PURGE START
1023	—	15.52	6.81	8.15	-31.8	245	3.98	30.40	Clear
1030	0.25	15.54	7.08	3.15	-59.5	264	3.61	30.40	
1040	0.50	15.97	7.18	3.09	-62.1	263	3.22	30.43	
1050	0.75	16.44	7.17	3.29	-63.4	259	3.06	30.42	
1100	1.20	16.21	7.10	3.57	-59.3	254	2.31	30.41	
1110	1.50	16.09	7.05	3.88	-47.1	248	2.78	30.42	
1120	1.75	16.15	6.99	4.25	-43.6	240	2.27	30.42	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	3/17/15
Turbidity	HF Scientific	Micro TPW 20000	3/17/15
Bladder pump	QED	Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
2		40ml / HCl	MNA Gasses
2		40ml / HCl	VOC
2		40ml / HCl	1,4 Dioxane
1		250ml / –	Alk
1		250ml / H_2SO_4	TOC
1		500ml / 2N-NaOH	Sulfide
		250ml / –	Chl. Ion.

Start purge - 1016
End purge - 1121
Sample - 1135

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Groundwater Sampling Record

WELL No. OBG-W5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 3/17/15
SAMPLE No. OBG-W5	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. WOOLF /EarthCon	
SAMPLE TIME: 1137	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, 65°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.16	Measuring Point Elevation (feet):	
Depth of Well (feet):	15.69	Groundwater Surface Elevation:	
Water Column (feet):	10.53	LNAPL present: NA	thickness: —
Casing Volume (gallons/liters):	1.72	DNAPL present: NA	thickness: —
Calculated Purge Volume (gallons/liters):	5.15	Remarks:	
Actual Purge Volume (gallons/liters):	3.5		
Pump Intake Depth (feet):	10 feet	Ferrous Iron (mg/L):	0.03 mg/L

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1035	0								PURGE START
1040	0.5	12.51	6.79	7.16	181.3	189	123.1	5.26	clear/ odorless
1050	1.0	12.72	6.78	6.40	161.5	225	50.71	5.24	
1055	1.25	12.71	6.83	6.72	158.5	231	45.26	5.26	
1100	1.5	12.85	6.89	6.20	155.2	239	98.33	5.23	
1110	2.0	13.11	6.96	6.10	152.4	257	31.90	5.24	
1116 ~~1120~~	2.5	13.35	7.04	5.97	148.8	262	7.80	5.24	
1120	2.75	13.29	7.05	6.19	147.4	264	151.3	5.24	
1125	3.0	13.43	7.06	6.05	148.3	263	6.80	5.22	
1130	3.25	13.44	7.04	6.13	144.7	255	6.16	5.23	
1135	3.5	13.51	7.08	6.44	141.7	267	5.92	5.23	
1137	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Parameters	YSI	556-13E100655	3-17-15
Turbidimeter	Micro TPM	59446	3-17-15
Peristaltic Pump	Geotech	Geopump II	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
OBG-W5	VOCs/1,4-Dioxane	4 VOA 40ml w/ HCl	
	MNA-VOCs	2 VOA 40ml w/ HCl	
	Iron	500 ml HDPE	
	Sulfide	500 ml HDPE w/ $ZnAc^+$ + NaOH	
	TOC	250 ml HDPE w/ ~~NaOH~~ H_2SO_4	
	Alkalinity	250 ml HDPE ~~w/~~ 5N	

EARTHCON®

Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-1 VPSTREAM	PROJECT NAME: AMC Dalton	DATE: 3/16/15
FACILITY NUMBER: AMC Dalton	LOCATION: Dalton, GA	TIME: 1650
SAMPLING CONTACT/COMPANY: EarthCon	SAMPLER'S PROJECT NUMBER: 03.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny 70°F

FIELD TEAM (signature/company): EarthCon Consultants, Inc. Samantha Woolf

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 6.99

Dissolved Oxygen (ppm): 11.25 mg/L Water Temperature (°C): 17.93

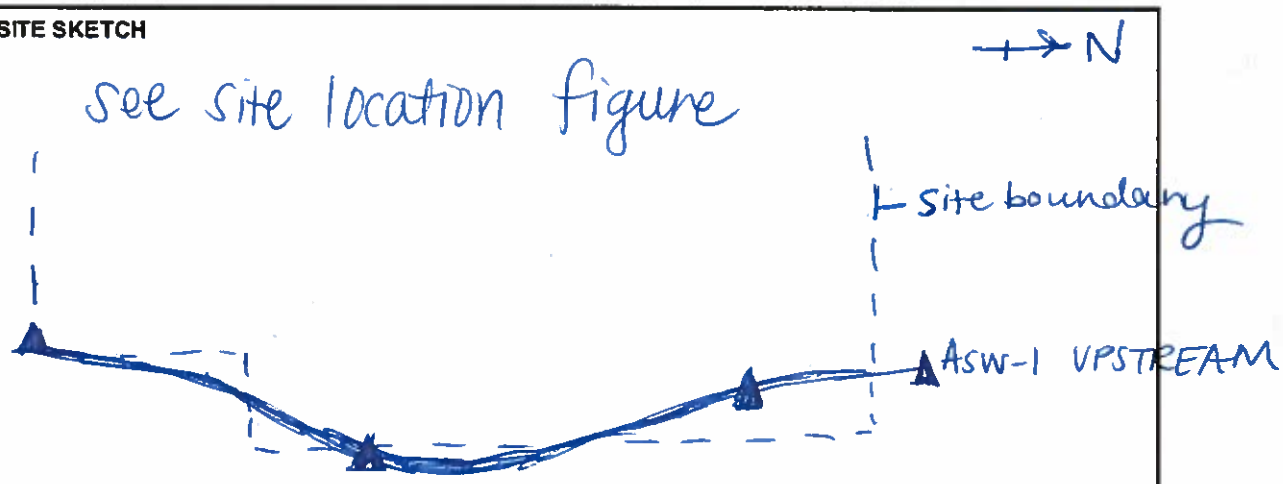
SC @ Field Temperature (microhos/cm): 261 Estimated Streamflow (cfs): —

Turbidity: 48.46 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	STATION	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-1 VPSTREAM	3/16/15 1650		voa vials	—	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



EARTHCON®

Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-1	PROJECT NAME: AMC Dalton	DATE: 3/16/15
FACILITY NUMBER: AMC Dalton	LOCATION: Dalton, GA	TIME: 1705
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 70°F

FIELD TEAM (signature/company): Earthcon Consultants, Inc.
Samantha Woolf

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.20

Dissolved Oxygen (ppm): 10.70 mg/L Water Temperature (°C): 16.09

SC @ Field Temperature (microhos/cm): 225 Estimated Streamflow (cfs): —

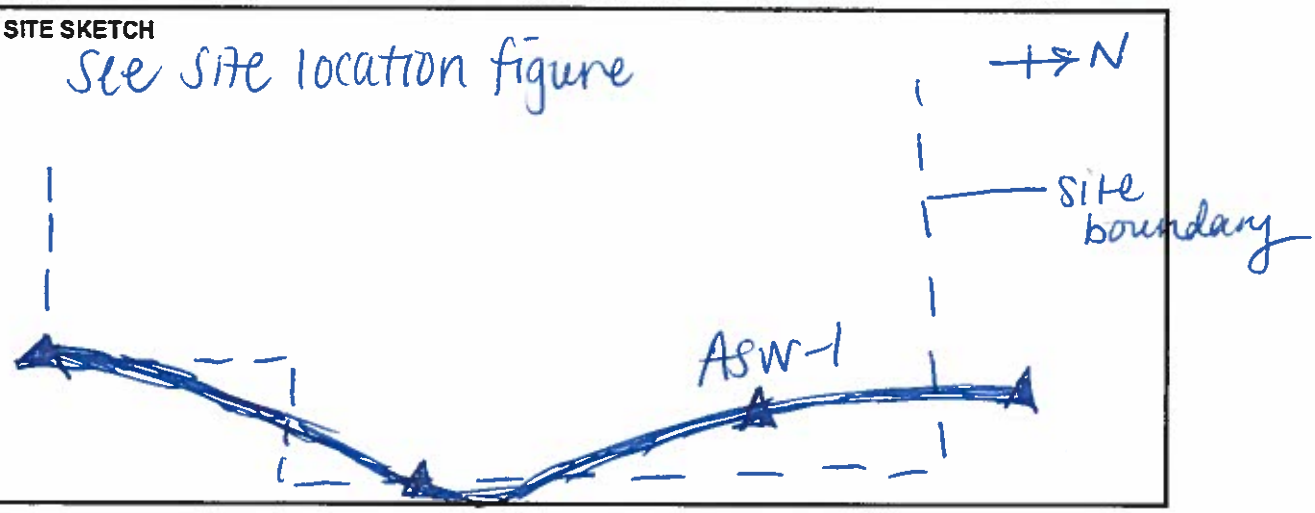
Turbidity: 26.73 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	STATION	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-1	3/16/15 1705		voa vials	—	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH

See site location figure



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Environmental Challenges
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Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-2	PROJECT NAME: AMC Dalton	DATE: 3/16/15
FACILITY NUMBER: AMC Dalton	LOCATION: Dalton, GA	TIME: 1725
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 70°F

FIELD TEAM (signature/company): Earthcon Consultants, Inc.
Samantha Woolf

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.31

Dissolved Oxygen (ppm): 10.45 mg/L Water Temperature (°C): 15.50

SC @ Field Temperature (microhos/cm): 245 Estimated Streamflow (cfs): —

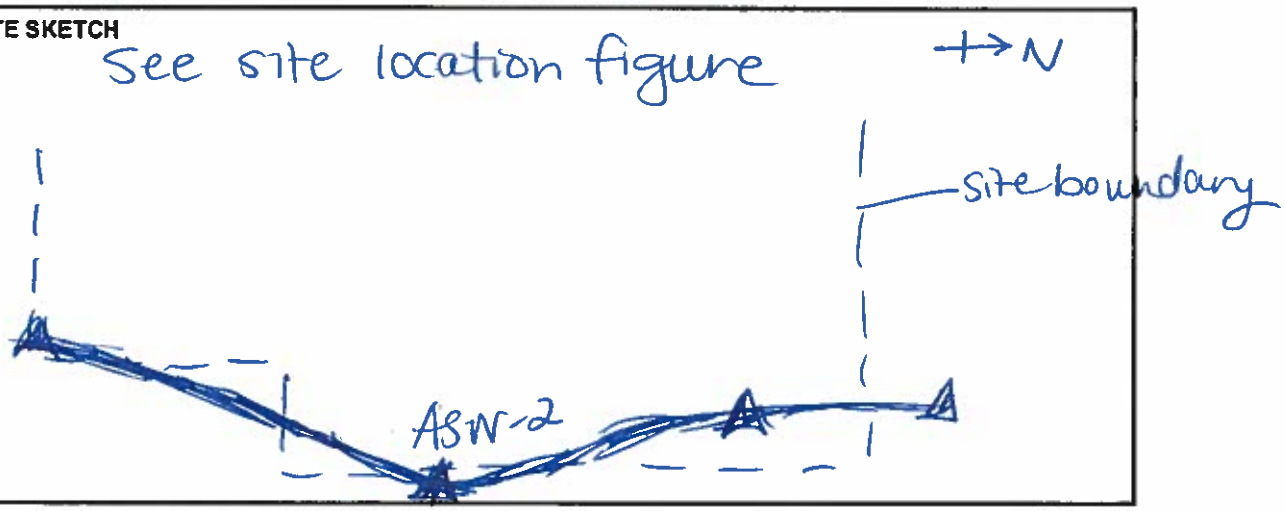
Turbidity: 21.666 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	STATION	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-2	3/16/15 1725		voa vials	—	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH

See site location figure



1325 - Turn both systems on
1330 - Depart Site
1615 - Drop Samples @ AES

END

Monday 3/9/15 47° Rain

0735 - Arrived on Site
- Sign in @ office
- Locate empty drums
- Move drums to OBG-W7, DMW-1 + DMW-6
- open wells
- Setup decon buckets
0900 - Setup on DMW-1
DTW = 37.73'
0920 - Begin dev. DMW-1 v. turbid.
- Dry within 2min 0.3' water
- Turning discont. from pump into drum
0930 - Dry 10 times
0945 - Setup on DMW-6
0950 - begin dev.
- Dry 10 times
1100 - End Dev. Both 6 gal
- 0.5' water in 55 gal drum
- Decon pumps
- Setup on OBG-W7
1140 - Heavy here w/ Carl
1150 - Begin develop W7
Very turbid @ bottom

Rite in the Rain

- W7 cleaned up
  down 28' wall
- ≈ 55 gal
1240 - Decon pump
1410 - Setup on AMW-20
1420 - Begin dev.
- 32.16 DTW
- Turbid @ start but cleaning
  nicely
1455 - End Dev. ≈ 55 gal
1500 - Setup on AMW-14
  DTW = 33.96
1515 - Start dev.
- Rich came to speak w/
  me about the pumps.
1521 - Dry
1549 - End Dev. ≈ 25 gal
  clear.
1600 - Decon pumps
- Setup on AMW-8
1617 - Start dev.
  DTW - 27.24'
  Very turbid
180 - Finish dev. ≈ 25 gal

1645 - Setup on ARW-2
- All per manufacturer
- pulled off
1715 - Setup on RW-2
- pulled pump
1730 - Begin develop
- Decon pump between ARW-2
  & RW-2
1750 - Checked ARW-4
  moved up & removed
  started pumping
  RW-2 - NO AIR TO SYSTEM
  or pump.
1815 - Finish RW-2
- ≈ 45 gal
1835 - Depart Site

140

Monday 5/16/15

0620 - Arrived @ office to Help load supplies.
0750 - Arrive on Site
Unload equip.
0810 - Em Serv. Arrives
- Sam + Keyron opening wells to Measure WLs
0840 - Em unload Rig
- Tried to wash pump base in 8 but no luck - Em bring a down Hole Camera
0930 - Move dev. water drums + Stage.
1110 - Setup to abandon 036-CMG
- Break Rod + Remove Rod + Casing
1150 - Break PVC Rise Pipe below grade + Conduit
1130 - Em arrived w/ down Hole Camera
- Nothing but Silt + soil
Can not See pump.
-

1330 - Em back again w/ Camera
- No obvious breaks in Casing
- Support Rope piled @ ≈40'
1445 - Could not Remove Rope
1500 - Em Services Depart Site
- Fix bolts + Cap @ RW-2
1915 - Finish WLs @
1930 - Replace Bolts + Cap @ well on Focus Rd.
1715 - Sampled surface water
1930 - Depart Site

Rite in the Rain

Wednesday 4/15/15

0805 - Arrived on Site
- Removed Air-Flow Bag From MW-23 + Filled 4 VOA Vials For VOCs + 1,4-Dioxane
0815 - Sample MW-23
0840 - Depart Site
1030 - Drop Samples @ AES

Kwq

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Groundwater Sampling Record

WELL No. DMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No. DMW-1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 12:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 95°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.95
Depth of Well (feet): 54.24 (measured 6-11-15)
Water Column (feet): 16.29
Casing Volume (gallons/liters): 2.66
Calculated Purge Volume (gallons/liters): 7.97
Actual Purge Volume (gallons/liters): 1.75
Pump Intake Depth (feet): ~47 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks:
Ferrous Iron (mg/L): 0.02 mg/L

Well Evacuation
Water level recovery is: very slow (slow) moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:45	0								PURGE START
11:00	0.1	23.65	7.21	4.43	174.8	472	20.69	38.65	clear/odorless
11:05	0.25	23.17	7.16	3.26	167.0	489	27.99	39.27	" "
11:10	0.5	22.28	7.15	3.00	159.7	455	24.74	40.10	" "
11:22	0.75	22.24	7.14	3.37	151.8	438	17.73	41.17	" "
11:32	1.0	22.50	7.14	3.16	145.2	462	13.90	42.00	" "
11:45	1.25	22.55	7.14	3.35	140.6	485	9.71	43.20	" "
11:53	1.4	22.72	7.15	3.63	138.2	472	9.01	43.70	" "
12:00	1.6	22.21	7.15	3.53	137.3	472	9.99	44.28	" "
12:10	1.75	22.23	7.15	3.35	135.5	467	8.21	44.65	" "
12:15	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	06G2421-AD-51995	6-23-2015
Turbidimeter	Micro TPW2000	200812226	6-23-2015

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-1	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	Acid
	TOC SM5310B	~~1 250-mL HDPE~~	~~H2SO4~~ pH<2	3 40-mL voa
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH + ZnAc	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. DMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 12:55	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 80's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 45.48
Depth of Well (feet): 54.50
Water Column (feet): 9.02
Casing Volume (gallons/liters): 1.47
Calculated Purge Volume (gallons/liters): 4.41
Actual Purge Volume (gallons/liters): 1.10
Pump Intake Depth (feet): ~51'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.11

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:54	0								PURGE START
12:05	0.10	24.99	7.79	7.76	174.6	340	6.88	46.28	clear
12:10	0.30	24.76	7.77	7.24	171.0	337	3.77	46.42	"
12:15	0.50	25.20	7.78	7.04	156.2	339	2.60	46.63	"
12:20	0.55	25.27	7.83	6.72	150.1	343	2.04	47.16	"
12:25	0.60	26.31	7.85	6.62	142.6	348	2.20	47.42	"
12:30	0.65	26.48	7.87	6.57	136.0	350	2.10	47.65	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump			
H2O Parameter Meter	YSI	556 MPS - (Field)	6/22/15
Turbidimeter	Hanna	HI 98703 (Field)	6/22/15
Colorimeter	HACH	DR/820 (Field)	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-2	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 VOA ~~1 250-mL HDPE~~ 40mL	~~HCl~~	
"	Sulfide SM4500-S2-F	1 ~~500~~ 125-mL HDPE	NaOH	+Zn Acetate
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

Subtract .27 from WL measurements due to sensor placement on rod

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-6	PROJECT #	LOCATION Dalton, Ga	DATE 6/23/15
SAMPLE No.	PROJECT NAME	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1305	SITE	FIELD CONDITIONS/WEATHER Sunny 89°	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 34.00
Depth of Well (feet): 55.53
Water Column (feet): 21.53
Casing Volume (gallons/liters): 3.51
Calculated Purge Volume (gallons/liters): 10.54
Actual Purge Volume (gallons/liters): 3.10
Pump Intake Depth (feet): ≈50'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 2.56 mg/L

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1059	0								PURGE START
1111	—	28.86	6.85	5.80	-85.1	880	133.1	34.59	
1125	0.4	24.21	6.66	3.17	-67.8	824	195.0	34.95	
1135	0.70	23.59	6.69	1.99	-69.1	808	573.1	35.35	
1145	1.0	23.61	6.70	1.87	-67.6	798	1100	35.59	Green
1155	1.4	23.59	6.72	2.39	-66.4	793	1040	35.85	Green
1205	1.7	23.67	6.71	0.76	-80.3	798	1025	36.64	
1215	2.0	23.56	6.70	0.57	-80.8	779	643.4	37.40	
1225	2.25	24.16	6.69	0.46	-73.5	770	393.6	37.93	
1235	2.60	24.11	6.68	0.36	-72.2	770	400.5	38.36	
1245	2.90	24.37	6.69	0.33	-73.8	768	341.0	38.56	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/15
Turbidity	HF Scientific	Micro TPW 20000	6/23/15
Bladder pump	QED	Micro Purge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	Phos. Acid	
3	Meth., Eth, Eth	20ml	—	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40ml	HCl	
1	Nitrate	125ml	—	Sulfide
1	Cl, Sulf. Alk	250ml	—	1-125ml NaOH Zn Ac

Start Purge 1059
End Purge 1245

Sample 1305

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Groundwater Sampling Record

WELL No. DMW7/DRW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/24/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 9:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 80's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 39.16
Depth of Well (feet): 64.60
Water Column (feet): 25.44
Casing Volume (gallons/liters): 16.6
Calculated Purge Volume (gallons/liters): 49.8
Actual Purge Volume (gallons/liters): 1.25
Pump Intake Depth (feet): ~60'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: No pink color
Ferrous Iron (mg/L): 0.06

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
8:02	0								PURGE START
8:10	0.05	19.56	5.24	4.60	308.5	748	12.00	39.56	clear
8:15	0.15	19.38	4.97	2.27	322.0	738	11.00	39.79	"
8:20	0.25	19.43	5.17	1.07	308.2	737	10.8	39.89	"
8:25	0.40	19.83	5.57	1.00	278.9	741	9.45	40.00	"
8:30	0.50	19.97	5.97	1.00	261.9	743	7.84	40.12	"
8:35	0.55	20.06	6.11	0.89	250.9	745	7.13	40.31	"
8:40	0.65	20.43	6.27	0.88	243.8	750	6.82	40.29	"
8:45	0.75	20.72	6.48	0.92	230.7	755	6.43	40.32	"
8:50	0.85	20.85	6.57	0.99	219.6	757	6.07	40.34	"
8:55	0.95	21.29	6.73	0.99	207.6	763	6.13	40:33	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS (Field)	6/24/15
Turbidimeter	Hanna	HI 98703 (Field)	6/24/15
Colorimeter	HACH	DR/820 (Field)	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW7/DRW-1	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~[illegible]~~ 40 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 Voa ~~1 250-mL HDPE~~ 40mL	~~H_2SO_4~~	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

Subtract .27 from WL measurement due to sensor placement on rod

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-9/DRW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/24/15
SAMPLE No. DMW-9/DRW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1000	SITE Dalton, GA	FIELD CONDITIONS/WEATHER cloudy, 92°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653); 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 38.80
Depth of Well (feet): 60.30 (measured 6-11-15)
Water Column (feet): 21.50
Casing Volume (gallons/liters): 14.04
Calculated Purge Volume (gallons/liters): 42.12
Actual Purge Volume (gallons/liters): 3.00
Pump Intake Depth (feet): ~58 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: faint sulfur odor
Ferrous Iron (mg/L): 2.86 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0750	0								PURGE START
0759	0.25	19.83	5.85	1.89	12.0	670	19.07	38.67	clear
0809	0.5	19.57	5.87	1.31	6.6	670	18.99	38.71	" "
0818	0.75	19.08	5.85	0.96	4.7	662	16.21	38.78	" "
0825	1.0	19.19	5.86	0.90	4.2	663	13.86	38.79	" "
0837	1.5	19.11	5.87	0.79	3.1	661	11.96	38.82	" "
0845	1.75	19.22	5.88	0.73	3.7	662	11.08	38.86	" "
0853	2.0	19.14	5.90	0.72	1.2	671	9.78	38.86	" "
0900	2.25	19.77	5.91	0.66	-0.3	678	8.02	38.87	" "
0907	2.5	19.83	5.92	0.62	-1.3	683	7.20	38.88	" "
0950	3.00	20.04	5.93	0.59	-3.5	691	6.79	39.01	" "
1000	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	06G2921-A0-51995	6-24-15
Turbidimeter	Micro TPW2000	200812226	6-24-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-9/DRW-3	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H_2SO_4~~ Phos Acid	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH+ZnAc	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-10	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-18-15
SAMPLE No. DMW-10	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY	/EarthCon
SAMPLE TIME:	SITE Dalton, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 34.06
Depth of Well (feet): 60.93 (measured 6-11-15)
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ~45 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

* Pump could not pass ~25 feet in well, T. Keller tried to find obstruction, moved on to next well

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-11	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No. DMW-11	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: 14:35	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 97°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter:
(circle one)
(2") 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 23.50
Depth of Well (feet): 29.59 (measured 6-11-15)
Water Column (feet): 6.09
Casing Volume (gallons/liters): 0.99
Calculated Purge Volume (gallons/liters): 2.98
Actual Purge Volume (gallons/liters): 1.25
Pump Intake Depth (feet): ~25 feet

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: ____
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1404	0								PURGE START
1409	0.1	19.36	5.93	2.75	143.6	213	5.85	23.50	clear
1414	0.25	18.84	5.68	2.17	158.9	206	1.53	23.50	" "
1418	0.5	19.71	5.70	1.77	163.0	207	0.61	23.50	" "
1422	0.75	19.50	5.74	1.71	159.9	205	0.89	23.50	" "
1426	1.0	19.44	5.70	1.62	159.4	197	0.72	23.50	" "
1430	1.25	19.29	5.62	1.52	163.0	197	0.56	23.50	" "
1435	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Peristaltic Pump	geotech		
Water Quality	YSI 556MPS	06G2421 - AD - 51995	6-23-15
Turbidimeter	Micro TPW2000	20081226	6-23-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-11	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H2SO4~~ Phos Acid	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-1	PROJECT No. 20140392.00	LOCATION Dalton, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME Pine Dalton	FIELD PERSONNEL/COMPANY K. Sellers	/EarthCon
SAMPLE TIME: 0815	SITE	FIELD CONDITIONS/WEATHER Sunny 76°	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	28.67	Measuring Point Elevation (feet):	
Depth of Well (feet):	46.35	Groundwater Surface Elevation:	
Water Column (feet):	17.68	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.88	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	8.65	Remarks:	
Actual Purge Volume (gallons/liters):	1.9		
Pump Intake Depth (feet):	≈40'	Ferrous Iron (mg/L):	0.00 mg/l

Well Evacuation

Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0658	0								PURGE START
0704	–	19.63	5.85	6.97	25.1	155	1100	28.95	[redacted]
0715	0.4	18.81	5.13	1.70	368.9	137	122.0	28.78	
0725	0.75	18.78	5.49	1.32	341.0	145	128	28.79	
0735	1.0	18.82	5.64	1.11	319.4	149	13.41	28.78	
0745	1.4	18.88	5.73	1.06	304.6	152	9.07	28.77	
0755	1.75	19.00	5.78	0.99	292.5	155	5.82	28.90	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/15
Turbidity	HPSCientific	MicroTPW 20000	6/23/15
Bladder Pump	QED	Micropurge WellWizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	TOC	40ml / Phos. Acid	
3	Meth, Eth, Eth	20ml / –	
3	1,4-Dioxane	40ml / HCl	
3	VOCs	40ml / HCl	
1	Nitrate	125ml / –	Sulfide
1	cl, Sulf, Alk	250ml / –	1 - 125ml / NaOH / ZnAc

Start purge - 0658
End purge - 0756

Sample @ - 0815

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME: 17:55	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 90's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 37.11
Depth of Well (feet): 43.13
Water Column (feet): 6.02
Casing Volume (gallons/liters): 0.98
Calculated Purge Volume (gallons/liters): 2.94
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ~40'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.01

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:33	0								PURGE START
16:45	0.05	20.21	3.91	7.26	312.7	249	7.06	37.35	clear
16:50	0.25	19.32	4.11	6.42	202.2	243	5.12	37.50	"
16:55	0.50	18.85	4.41	6.43	270.1	242	4.01	37.61	"
17:00	0.65	18.74	4.65	6.37	252.2	242	3.58	37.75	"
17:05	0.75	19.10	5.13	5.93	227.8	245	3.29	37.86	"
17:10	0.85	19.98	6.23	5.86	160.9	252	2.49	37.89	"
17:15	0.95	20.53	6.81	5.66	129.2	256	2.29	37.95	"
17:20	1.0	20.56	7.18	5.80	101.2	257	2.05	37.98	"
17:25	1.05	20.47	7.26	5.83	101.6	257	1.92	38.02	"
17:30	1.10	20.51	7.27	5.70	101.4	257	1.99	38.08	

Measurement and Sampling Equipment

Type	Manufacturer	Model #/	Calibration Date
Pump	YSI	556 MPS (Field)	6/22/15
Turbidimeter	Hanna	HI 98703 (Field)	6/22/15
Colorimeter	HACH	DR/820 (Field)	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W2	VOCs SW 8260B	3 voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 voa ~~40~~ mL 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 VOA ~~1 250-mL HDPE~~ 40 mL	~~H2SO4~~	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH + Zn Acetate	
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

Subtract .27' from WL measurements due to sensor placement on rod

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W7	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No. OBG-W7	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 1720	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 98°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653); 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; ~~4" = 2.47~~; 6" = 5.56

Depth to Water (feet): 39.49
Depth of Well (feet): 47.00 (measured 6-11-15)
Water Column (feet): 7.51
Casing Volume (gallons/liters): 4.90
Calculated Purge Volume (gallons/liters): 14.71
Actual Purge Volume (gallons/liters): 2.0
Pump Intake Depth (feet): ~42 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: DVP-3
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:35	0								PURGE START
15:45	0.1	22.92	10.17	7.05	106.8	476	24.42	39.75	clear
15:52	0.25	22.95	10.14	6.74	91.7	451	24.12	39.90	" "
15:59	0.5	22.97	10.12	6.25	82.4	438	28.06	39.78	" "
16:10	0.75	22.90	9.87	6.18	75.8	443	14.62	39.74	" "
16:20	1.0	21.96	9.68	5.89	66.7	427	8.50	39.70	" "
16:35	1.25	21.35	7.80	4.55	76.7	508	5.55	39.68	" "
16:47	1.50	21.01	7.05	3.88	88.3	529	4.51	39.65	" "
16:57	1.65	20.82	6.69	3.18	102.4	568	3.94	39.61	" "
17:05	1.80	20.75	6.55	2.51	112.0	575	2.68	39.62	" "
17:15	2.0	20.53	6.32	2.52	122.8	582		39.63	" "
17:20	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	06G2421-A0-51995	6-23-15
Turbidimeter	Micro TPW2000	200812226	6-23-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W7	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

* DUPLICATE 3

EARTHCON®

Groundwater Sampling Record

WELL No. MW-22D	PROJECT # 02.20140392.00	LOCATION Dayton, OH	DATE 6/22/15
SAMPLE No.	PROJECT NAME Dayton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1800	SITE	FIELD CONDITIONS/WEATHER Sunny 100°	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 28.99
Depth of Well (feet): 67.95
Water Column (feet): 38.96
Casing Volume (gallons/liters): 6.35
Calculated Purge Volume (gallons/liters): 19.07
Actual Purge Volume (gallons/liters): 2.6
Pump Intake Depth (feet): ≈ 63'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.0 mg/l

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1644	0								PURGE START
1651	—	19.25	5.38	5.45	320.9	521	12.67	29.32	
1700	0.4	18.57	5.59	2.39	300.1	516	18.76	29.25	
1710	1.0	18.60	6.10	3.76	257.6	513	16.26	29.15	
1720	1.4	18.36	6.44	3.19	232.3	507	10.11	29.20	
1730	1.8	18.38	6.53	2.90	220.5	497	7.06	29.20	
1740	2.25	18.51	6.56	2.76	217.1	491	3.76	29.23	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/22/15
Turbidity	HF Scientific	MicroTPW 20000	6/22/15
Bladder pump	QED	Micro purge well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	Phos. Acid	
3	Meth, Eth, Eth.	20ml	—	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40ml	HCl	
1	Nitrate	125ml	—	Sulfuric
1	Cl, Sulf, Alk.	250ml	—	1 - 125ml NaOH, Zn Ac

Start purge ~ 1644
End purge ~1743

Sample ~1800

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-1	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-16-15 /EarthCon
SAMPLE No. AMW-1	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY J Keller	
SAMPLE TIME: 17:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot Humid	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 19.68
Depth of Well (feet): 28.68
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 25'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO — thickness: N/A
DNAPL present: NO — thickness: N/A
Remarks: odorless colorless
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
									PURGE START
16:28	0								
16:35	0.4	16.21	5.83	5.62	148.4	55	4.23	20.68	
16:40	0.7								
16:45	1.0	15.91	5.50	4.95	164.9	54	7.21		
16:50	1.3	15.90	5.26	4.76	181.7	53	9.28	21.21	
16:55	1.6	16.39	5.09	4.75	189.1	52	11.5	20.87	Slow flow
17:00	1.8	17.38	5.27	4.65	—	54	10.81	—	
17:05	1.9	17.73	5.38	4.58	177.9	54	13.6	20.54	
17:10	2.0	17.87	5.43	4.55	178.0	54	14.0	20.44	
17:15	2.2	17.91	5.45	4.53	178.1	54	13.0		
17:20	2.4	17.92	5.46	4.53	178.5	55	13.3	20.40	
17:25	2.5	17.91	5.46	4.81	179.4	55	11.5		
17:30	2.6	17.92	5.47	4.68	180.2	55	13.0		
17:35	2.7	17.79	5.43	4.76	180.7	56	11.1	20.38	
17:40	2.8	17.87	5.44	4.61	183.2	56	8.69		
17:45	2.9	17.87	5.44	4.80	183.1	56	9.64	20.37	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multi-parameter	YSI	556	6-16-15
turbidimeter	Hach	2100P	6-16-15
peristaltic pump	Geotech	GP-2	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-1	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

* Duplicate 2 3 VOA's w/HCl for VOC's

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-17-15
SAMPLE No. AMW-2	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKeller	/EarthCon
SAMPLE TIME: 13:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot Humid	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): ~~30.~~ 31.00
Depth of Well (feet): 40.44 ~~41.25~~ 40.00
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 36

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L w/ Hach ~~820~~ DR820

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1200	0								PURGE START
1210	0.2	18.26	5.49	6.50	134.8	163	4.12	31.45	
1215	0.4	18.01	5.49	6.34	140.1	161	5.65	—	
1220	0.7	17.68	5.49	6.31	142.7	160	4.71	—	
1225	1.0	17.56	5.49	6.26	146.2	159	4.39	31.60	
1230	1.2	17.36	5.51	6.19	152.7	160	3.85		
1235	1.4	17.31	5.52	6.22	156.1	160	4.10		
1240	1.5	17.34	5.53	6.26	157.7	160	3.99	31.72	
1245	1.75	17.35	5.54	6.20	162.1	158	3.38		
1250	2.0	17.36	5.54	6.14	163.7	158	2.83	31.70	
1255	2.25	17.37	5.56	6.04	166.0	157	1.81		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Anti-purge pump	YSI	556	6-12-15
Turbidimeter	Hach	2100P	6-17-15
SS bladder pump	Geotech	GP-2	NA

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-2	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-17-15
SAMPLE No. AMW-3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY T Keller	/EarthCon
SAMPLE TIME: 18:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot humid	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.54
Depth of Well (feet): 33.90
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 30'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
									PURGE START
1700	0								color less
1725	—	—	Ruptured	Bladder -	pull pump	replace			odorless
1735									
1740	0.1	22.71	4.54	7.91	170.1	478	16.9	27.80	
1745	0.4	18.09	4.29	6.72	193.7	496	16.3	27.85	
1750	0.6	17.45	4.23	6.51	213.7	528	—	27.81	
1755	0.8	17.41	4.24	6.67	215.0	531	12.3	27.88	
1800	1.0	17.37	4.23	6.50	218.3	533	11.4	27.61	
1805	1.25	17.32	4.21	6.44	222.4	538	8.36	27.90	
1810	1.5	17.32	4.19	6.44	230.5	545	7.78	27.88	
1815	1.75	17.31	4.19	6.52	231.6	545	7.15	27.90	
1820	2.0	17.27	4.18	6.48	237.6	548	5.78	27.91	
1825	2.25	17.21	4.17	6.59	242.9	550	5.30	27.91	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
pH/Temp meter	YSI	556	6-17-15
Turbidity	Hach	2100P	6-17-15
Bladder pump	Geotech	Grundfos PRO	NA

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-3	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/15/15
SAMPLE No. AMW-4	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Danielle Edwards	/EarthCon
SAMPLE TIME: 18:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 17.00
Depth of Well (feet): 31.53
Water Column (feet): 14.53
Casing Volume (gallons/liters): 2.37
Calculated Purge Volume (gallons/liters): 7.11
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 26.5 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
17:45	0								PURGE START
17:48	—	18.01	7.25	4.55	144.0	37	3.26	17.12	clear
17:53	0.55	16.56	5.69	4.43	161.3	27	2.26	17.13	clear
17:58	1.10	16.13	5.37	4.16	158.9	26	1.81	17.13	clear
18:03	1.25	16.04	5.31	4.22	160.2	26	1.79	17.14	clear
18:08	1.60	16.00	5.28	4.10	162.1	26	1.89	17.14	clear

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Peristaltic Pump	Geotech	Geopump w/teflon tubing	—
Turbidimeter	Hach	2100Q	6/15/15
Multimeter	YSI	556 MPS, No. 600336-4M	6/15/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-4	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa ~~1 250-mL~~ HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/16/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 18:55	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 90's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 25.61
Depth of Well (feet): 31.09
Water Column (feet): 5.48
Casing Volume (gallons/liters): 0.89
Calculated Purge Volume (gallons/liters): 2.68
Actual Purge Volume (gallons/liters): 2.60
Pump Intake Depth (feet): 29'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: No pink
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1716	0								PURGE START
1720	0.15	18.22	6.27	4.95	111.8	207	45.76	25.83	cloudy
1725	0.40	18.25	6.02	4.44	138.6	203	42.54	25.86	"
1730	0.70	17.95	5.96	8.85	157.1	181	46.14	25.88	"
1735	0.90	17.88	5.92	8.51	163.1	178	38.93	25.87	sl cloudy
1740	1.05	18.39	5.90	7.35	172.7	177	30.97	25.86	"
1750	1.25	18.29	5.93	7.95	179.6	174	22.51	25.87	"
1800	1.50	18.24	5.87	7.49	141.1	170	12.4	25.86	clear
1805	1.70	18.15	5.93	7.48	140.9	169	8.74	25.87	"
1810	1.90	18.14	5.96	7.56	140.0	168	7.60	25.87	"
1815	2.0	18.14	5.99	7.64	141.0	172	19.84	25.86	"
1820	2.10	17.82	6.03	7.73	188.8	177	15.84	25.86	"
1825	2.30	17.50	6.04	7.63	186.1	176	4.32	25.94	"
1830	2.50	17.63	5.84	7.69	146.8	172	8.58	25.94	"
1835	2.60	17.54	6.09	7.60	183.5	181	4.52	25.91	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS	6/16/15
Colorimeter	HACH	DR 1820	—
Turbidimeter	Scientific Inc.	Micro TPW	6/16/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-5	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	~~1 250-mL HDPE~~ 3 voa 40mL	H2SO4 + Zn Acetate	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
"	Ion Scan E300.0	1 ~~500~~ 250-mL HDPE	-	

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Groundwater Sampling Record

WELL No. AMW-6	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-16-15
SAMPLE No. AMW-6	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY T Kellar /EarthCon	
SAMPLE TIME: 15:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot Humid	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 12.64
Depth of Well (feet): 26.87
Water Column (feet): 14.23
Casing Volume (gallons/liters): 2.3
Calculated Purge Volume (gallons/liters): 6.9
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 21'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:45	0								PURGE START
14:50	0.2	17.21	7.21	5.63	143.9	264	1.99	12.85	colorless
14:55	0.5	16.81	7.08	5.50	139.9	264	4.92	12.85	odorless
15:00	0.8	17.01	6.97	5.45	137.0	257	1.11	12.85	
15:05	1.0	16.90	6.95	5.29	135.3	254	0.54	12.85	
15:10	1.3	16.82	6.89	5.17	135.2	249	1.02	12.85	
15:15	1.6	17.01	6.88	5.20	135.8	247	0.68	12.86	
15:20	1.9	17.07	6.87	5.05	136.2	245	0.75	12.86	
15:25	2.2	17.04	6.86	5.0	136.9	244	0.69	12.86	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multiparameter	YSI	556	6-16-15
turbidimeter	Hach	2100P	6-16-15
peristaltic pump	Geotech	GP-2	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-6	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

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Groundwater Sampling Record

WELL No. AMW-7	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/16/15
SAMPLE No. AMW-7	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Danielle Edwards /EarthCon	
SAMPLE TIME: 12:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 80-90°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 20.37
Depth of Well (feet): 32.79
Water Column (feet): 12.42
Casing Volume (gallons/liters): 3.27
Calculated Purge Volume (gallons/liters): 9.80
Actual Purge Volume (gallons/liters): 1.80
Pump Intake Depth (feet): 28.0 ft

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness:
DNAPL present: NA thickness:
Remarks: #10 pmk cold
Ferrous Iron (mg/L): 0.02 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:14	0								PURGE START
11:19	—	17.88	5.60	12.00	197.4	104	5.48	20.65	clear
11:25	0.40	16.76	5.67	12.31	189.5	101	4.76	20.66	clear
11:30	0.60	16.76	5.80	11.87	179.1	101	4.48	20.66	clear
11:35	0.85	16.84	5.91	10.90	173.7	101	3.03	20.67	clear
11:40	1.10	16.95	5.88	10.18	175.7	99	1.89	20.68	clear
11:45	1.40	16.62	5.87	9.32	174.6	99	1.71	20.68	clear
11:50	1.65	16.63	5.97	9.29	171.7	99	1.74	20.69	clear
11:55	1.80	16.64	5.89	9.28	172.1	98	1.73	20.69	clear

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-7	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. AMW-8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-18-15
SAMPLE No. AMW-8	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: 16:35	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 97°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ~~$(\pi r^2 h)(7.48\ gal/ft^3)$~~
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.80
Depth of Well (feet): 37.45 (measured 6-11-15)
Water Column (feet): 9.65
Casing Volume (gallons/liters): 1.57
Calculated Purge Volume (gallons/liters): 4.72
Actual Purge Volume (gallons/liters): 1.6
Pump Intake Depth (feet): ~32 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: 3.5 foot screen ranging from 5.5 to 40.5
Ferrous Iron (mg/L): 0.10 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:55	0								PURGE START
15:00	0.1	20.16	6.42	5.20	202.8	206	84.1	28.16	slightly cloudy
15:15	0.25	19.67	6.43	7.51	197.9	223	42.6	28.41	" "
15:30	0.5	19.15	6.45	4.67	192.9	235	27.2	28.79	clear
15:45	0.75	18.85	6.47	4.43	193.2	256	16.1	28.96	clear
16:00	1.0	18.51	6.48	3.90	192.0	265	11.2	30.07	clear
16:10	1.25	18.92	6.52	6.92	189.2	273	9.3	28.91	" "
0:25 ~~16:15~~	1.5	19.10	6.54	6.34	196.0	279	9.1	28.95	" "
0:30 ~~16:20~~	1.6	19.42	6.55	6.09	193.2	278	8.9	28.99	" "
0:35 ~~16:25~~	SAMPLE								
~~16:30~~									

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	KGS-05-07K100465	6-18-15
Turbidimeter	Hach 2100P	46500-00	6-18-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-8	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40 mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa ~~40~~ 20-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. AMW-10	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-22-15
SAMPLE No. AMW-10	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: 17:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 95°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 26.35
Depth of Well (feet): 34.82 (measured 6-11-15)
Water Column (feet): 8.47
Casing Volume (gallons/liters): 1.38
Calculated Purge Volume (gallons/liters): 4.14
Actual Purge Volume (gallons/liters): 1.3
Pump Intake Depth (feet): ~28 feet

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: ____
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:55	0								PURGE START
16:08	0.1	21.54	5.94	2.73	112.7	150	4.58	26.49	clear/odorless
16:18	0.25	20.67	5.91	1.95	114.7	146	2.83	26.52	" "
16:25	0.5	20.79	5.91	1.74	114.0	147	1.17	26.60	" "
16:37	0.75	20.36	5.90	1.67	115.4	144	1.53	26.55	" "
16:45	1.0	19.76	5.88	1.67	116.8	141	0.79	26.68	" "
16:55	1.25	19.48	5.87	1.67	119.0	139	0.68	26.66	" "
17:00	1.33	19.34	5.88	1.62	118.9	139	0.62	26.67	" "
17:05	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS		6-22-15
Turbidimeter			6-22-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-10	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa 40-mL	~~HCl~~ Phos Acid	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H2SO4~~	3 20-mL voa
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH + ZnAc	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. AMW-11D	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-22-2015
SAMPLE No. AMW-11D	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 10:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 90°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 23.25
Depth of Well (feet): 90.00 (measured 6-11-15)
Water Column (feet): 66.75
Casing Volume (gallons/liters): 10.88
Calculated Purge Volume (gallons/liters): 32.64
Actual Purge Volume (gallons/liters): 1.1
Pump Intake Depth (feet): ~85 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks:
Ferrous Iron (mg/L): 0.03 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
09:40	0								PURGE START
09:52	0.05	19.75	7.36	7.81	118.5	471	1.50	22.48	clear / odorless
10:02	0.25	18.67	7.21	6.13	86.9	486	6.70	24.01	" "
10:08	0.5	18.72	7.20	5.75	75.1	468	7.76	24.80	" "
10:14	0.75	19.95	7.36	5.04	73.1	451	8.01	25.26	" "
10:33	0.9	21.22	7.42	3.71	92.8	420	6.92	26.26	" "
10:41	1.0	20.48	7.41	3.36	97.5	418	5.87	27.01	" "
10:47	1.1	20.11	7.40	3.09	98.5	401	5.62		" "
10:50	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED		
Water Quality	YSI 556 MPS	06G2421 AD-51995	6-22-15
Turbidimeter	Micro TPW	20081226	6-22-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-11D	VOCs SW 8260B	3 / ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 / 2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 / 2 voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa 40-mL HDPE
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-12	PROJECT # 02.20.1403920	LOCATION Dalton, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1830	SITE	FIELD CONDITIONS/WEATHER 100°	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	38.10
Depth of Well (feet):	47.97
Water Column (feet):	9.87
Casing Volume (gallons/liters):	1.61
Calculated Purge Volume (gallons/liters):	4.83
Actual Purge Volume (gallons/liters):	1.8
Pump Intake Depth (feet):	≈ 43'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): 0.04 mg/l

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1719	0								PURGE START
1727	–	25.06	7.26	5.71	95.8	431	176.1	38.83	
1735	0.25	23.76	5.93	4.23	176.0	423	23.65	39.19	
1745	0.5	23.48	6.82	4.00	120.6	423	3.66	39.40	
1755	0.75	23.77	7.07	4.00	107.8	421	2.40	39.50	
1805	1.0	24.26	7.26	3.78	98.0	422	1.12	39.49	
1815	1.2	24.67	7.29	3.91	97.7	422	0.32	39.43	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/15
Turbidity	HF Scientific	MicroTPW 20000	6/23/15
Bladder Pump	QED	Micro Purge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	Phos. Acid	
3	Meth, Eth, Eth	20ml	–	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40ml	HCl	
1	Nitrate	125ml	–	Sulfide
1	Cl, Sulf, Alk	250ml	–	1-125 ml NaOH, Zn Ac

Start purge ~1719
End purge ~1816
Sample ~1830

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-13	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-22-15
SAMPLE No. AMW-13	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S Woolf /EarthCon	
SAMPLE TIME: 20:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 95°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 34.09
Depth of Well (feet): 47.40 (measured 6-11-15)
Water Column (feet): 13.31
Casing Volume (gallons/liters): 2.17
Calculated Purge Volume (gallons/liters): 6.51
Actual Purge Volume (gallons/liters): 1.5
Pump Intake Depth (feet): ~45 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: NO pink color
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
19:00	0								PURGE START
19:13	0.1	21.34	6.41	4.10	156.7	755	18.38	34.84	clear/odor/255
19:19	0.25	20.46	6.37	2.19	152.8	736	23.65	34.81	" "
19:27	0.5	19.76	6.35	1.26	146.8	727	15.30	34.93	" "
19:34	0.75	19.55	6.35	0.97	143.9	723	13.47	34.96	" "
19:43	1.0	19.49	6.35	0.81	140.7	719	8.51	35.04	" "
19:51	1.25	19.50	6.36	0.79	139.1	721	7.44	35.03	" "
19:59	1.5	19.45	6.36	0.71	138.1	718	6.19	34.91	" "
20:05	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
~~Micro~~ Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	06G2421 AD-S1995	6-22-15
Turbidimeter	MICRO TPW	20081222 16	6-22-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-13	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa 40-mL	~~HCl~~ Phos. Acid	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H2SO4~~	3 20-mL VOA
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH + ZnAc	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. AMW-14	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-15-15
SAMPLE No. AMW-14	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKeller	/EarthCon
SAMPLE TIME: 12:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot humid	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 33.90
Depth of Well (feet): 49.90
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 45'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.00 mg/l with Ferrotrap. Accu Vac

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:20	0								PURGE START
11:35	0.4	16.71	5.28	3.76	201.7	140	1.94	34.5	odorless/colorless
11:35	0.6	16.32	4.39	1.07	228.9	155	1.60	34.36	
11:40	0.8	16.33	4.41	0.72	216.3	151	1.90	34.35	
11:45	1.1	16.25	4.37	0.62	148 ~~210.1~~ TAM		1.49	—	
11:50	1.5	16.25	4.49	0.60	197.6	149	0.83	34.39	
11:55	1.9	16.21	4.68	0.55	189.1	149	1.10	—	
12:00	2.3	16.19	4.71	0.51	181.8	151	1.86	34.40	
12:05	2.6	16.19	4.85	0.45	171.4	152	~~1.71~~ 1.42		
12:10	~~2.5~~ 2.80	16.33	4.97	0.41	~~153~~ 163.0	153	1.29	34.37	
12:15	3.25	16.25	5.02	0.39	160.3	153	0.51		
12:20	3.5	16.22	5.05	0.38	158.1	152	0.78	34.41	
12:25	3.75	16.20	5.14	0.37	153.0	151	0.63		
12:30	4.0	16.23	5.18	0.34	150.3	149	0.49	34.38	
12:40	4.3	16.42	5.24	0.34	147.3	148	1.73		
12:48		16.40	5.25	0.34	147.0	147	0.61	34.41	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multi parameter	YSI	556	6-15-15
Turbidimeter	Hach	2100P	6-15-15
Bladder Pump	Geotech	Geocontrol PRO	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-14	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-15	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/16/15
SAMPLE No. AMW-15	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Danielle Edwards	/EarthCon
SAMPLE TIME: 18:20	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 80-90s	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 13.53
Depth of Well (feet): 22.88
Water Column (feet): 9.35
Casing Volume (gallons/liters): 1.52
Calculated Purge Volume (gallons/liters): 4.57
Actual Purge Volume (gallons/liters): 3.15
Pump Intake Depth (feet): 18.0 ft

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness: —
DNAPL present: NA thickness: —
Remarks: no pink color
Ferrous Iron (mg/L): 0.06 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:30	0								PURGE START
16:35	—	18.30	6.20	17.98	242.0	115	8.32	14.45	~~[illegible]~~ clear
16:40	0.20	18.26	5.77	18.15	254.5	99	6.27	14.71	clear
16:45	0.50	18.00	5.80	18.09	244.7	113	7.54	14.89	clear
16:50	0.80	17.63	5.91	18.35	234.6	129	7.29	15.04	clear
16:55	0.90	17.52	5.91	17.52	237.4	137	5.36	15.19	clear
17:00	1.10	17.58	6.05	18.29	230.3	155	5.46	15.34	clear
17:05	1.25	17.80	6.17	18.02	225.6	167	5.73	15.49	clear
17:10	1.50	17.87	6.23	17.15	223.5	175	4.58	15.56	clear
17:20	1.80	16.73	6.10	17.86	225.6	157	4.33	15.91	clear
17:30	2.05	18.12	6.35	16.34	206.5	206	4.37	15.98	clear
17:40	2.45	18.83	6.61	16.22	199.5	259	4.58	16.02	clear
17:50	2.65	18.72	6.64	16.70	194.0	265	4.77	16.11	clear
18:00	2.95	18.66	6.66	15.63	191.7	268	4.80	16.18	clear
18:10	3.15	18.64	6.68	15.60	190.6	270	4.75	16.23	clear

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Peristaltic pump	Geotech	Geopump w/ teflon tubing	—
Turbidimeter	Hach	2100Q	6/16/15
Multimeter	YSI	556MPS 17C987X	6/16/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-15	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
↓	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL ~~1 250-mL~~ HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-16	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-16-15
SAMPLE No. MW-16	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY T Keller / Earthcon	/EarthCon
SAMPLE TIME: 14:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot Humid	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 21.95
Depth of Well (feet): 34.64
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 30'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1325	0								PURGE START
1310	0.3	18.16	6.85	5.12	114.8	103	3.39	22.04	odorless
1315	0.6	18.15	6.17	4.34	117.7	105	1.93	22.05	colorless
1320	0.9	18.09	6.46	4.14	117.4	184	2.96	22.05	
1325	1.2	17.69	6.60	4.24	114.3	210	2.04	22.05	
1330	1.4	17.53	6.69	4.25	112.2	221	2.28	22.05	
1335	1.85	17.25	6.76	4.21	111.8	230	1.53	22.06	
1340	2.0	17.78	6.77	4.05	110.8	236	1.84	22.06	
1345	2.3	17.90	6.76	4.21	110.6	240	0.98	22.06	
1350	2.6	17.92	6.73	4.10	112.5	242	1.55	22.06	
1355	2.9	17.62	6.73	4.21	113.1	243	0.80	22.06	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multiparameter	YSI	556	6-16-15
Turbidimeter	Hach	2100P	6-16-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-16	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. 12MW-17	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-15-15
SAMPLE No. AMW-17	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TKeller / EARTHCON	/EarthCon
SAMPLE TIME: 16:45	SITE Dalton, GA	FIELD CONDITIONS/WEATHER HOT HUMID	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 31.42
Depth of Well (feet): 46.77
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 36'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: N/A
DNAPL present: NO thickness: N/A
Remarks:
Ferrous Iron (mg/L): 0.00mg/L with AccuVac

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
15:25	0								PURGE START
15:30	0.2	22.64	7.61	4.47	46.0	309	11.4		colorless
15:35	0.4	22.72	7.57	4.62	46.2	309	12.9	33.17	odorless
15:40	0.6	22.48	7.54	4.75	50.2	309	19.0		
15:45	0.7	22.30	7.55	4.72	52.6	309	22.0	33.9	Slow Pump
15:50	0.8	22.43	7.52	4.77	60.7	3.10	22.3		
15:55	0.9	22.84	7.58	4.67	59.2	311	20.3	34.4	Top of Pump
16:00	0.9	24.09	7.66	4.34	62.0	313	15.5		turn pump
16:10	Going dry		7.69	4.60	71.6	316	16.3		Water out
16:20	0.9						15.2	35.00	
16:35		24.04	7.69	4.31	74.4	315	15.3		

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multi-parameter	YSI	556	6-15-15
Turbidimeter	Hach	2100Q	6-15-15
Bladder pump	GeoTech	geoinstall PRO	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-17	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-18	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-15-15
SAMPLE No. AMW-18	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY T Keller Earthcon	/EarthCon
SAMPLE TIME: 19.05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot Humid	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	19.40	Measuring Point Elevation (feet):	
Depth of Well (feet):	24.64	Groundwater Surface Elevation:	
Water Column (feet):	5.24	LNAPL present: NO	thickness: N/A
Casing Volume (gallons/liters):	0.85	DNAPL present: NO	thickness: N/A
Calculated Purge Volume (gallons/liters):	2.56	Remarks:	
Actual Purge Volume (gallons/liters):	2.5		
Pump Intake Depth (feet):	22.5	Ferrous Iron (mg/L):	0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
18.06	0								PURGE START
18:15	—	—	—	—	—	—	—	19.75	odor less
18:20	0.5	17.22	7.33	2.20	84.9	305	4.18		color less
18:25	0.75	17.44	7.13	2.11	90.9	300	2.88	19.82	
18:30	1.0	17.39	7.10	2.46	92.4	290	2.64	19.91	slow pump sl.
18:35	1.25	17.75	7.16	2.64	92.1	290	1.30	19.95	
18:40	1.50	17.71	7.18	2.46	93.4	295		19.98	
18:45	1.75	17.66	7.21	2.31	93.9	298	1.23	19.98	
18:50	2.0	17.72	7.23	2.23	94.6	300	1.11	19.98	
18:55	2.25	17.72	7.21	2.11	97.4	299	1.10	19.99	
19:00	2.5	17.71	7.21	2.11	98.0	299	0.79	19.99	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multiparameter	YSI	556	6-15-15
Turbidimeter	Hach	2100P	6-15-15
Peristaltic Pump	Geotech	GP-2	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-18	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-19	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/16/16
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Kersten Henry	/EarthCon
SAMPLE TIME: 13:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 80s	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible - needs to be rewritten
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 20.03
Depth of Well (feet): 31.17
Water Column (feet): 11.14
Casing Volume (gallons/liters): 1.82
Calculated Purge Volume (gallons/liters): 5.46
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 27

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:36	0								PURGE START
1140	turned off pump. restarted at 11:53								
11:65	0.40	20.53	4.05	4.96	227.7	29	26.41	20.56	sl cloudy
12:00	0.70	16.91	3.81	4.73	267.3	28	30.06	20.57	"
12:05	0.80	17.64	3.69	4.70	284.6	28	30.23	20.53	"
12:15	1.0	18.30	3.84	4.64	291.1	27	24.46	20.50	"
12:25	1.25	17.88	3.93	4.67	301.6	26	21.74	20.49	"
12:35	1.50	18.31	3.91	4.56	303.2	26	20.74	20.47	"
12:40	1.60	18.28	3.95	4.61	298.4	26	14.84	20.50	"
12:50	1.90	17.87	3.94	4.64	297.1	25	17.05	20.50	"
12:55	2.0	17.50	3.75	4.93	313.4	25	12.39	20.65	clear
13:00	2.25	16.80	3.96	5.08	305.2	25	10.67	20.80	"
13:05	2.5	17.18	3.88	5.00	305.6	25	10.16	21.00	
13:10	2.6	18.06	3.87	4.23	307.4	25	8.60	21.04	"
13:15	2.75	18.31	3.95	4.24	306.1	25	6.14	20.97	"
13:20		18.42	3.93	4.17	305.5	25	6.85	21.02	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Parameter Meter	YSI	556 MPS	6/16/15
turbidimeter	Scientific, Inc.	Micro TPW	6/16/15
Colorimeter	HACH	DR/820	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-19	VOCs SW 8260B	3 ~~8~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~8~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~8~~ voa ~~40-mL~~ 20-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa 40-mL
"	Sulfide SM4500-S2-F	125 1 ~~500~~-mL HDPE	NaOH	+Zn Acetate
"	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-20	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/17/16
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 14:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Partly Cloudy, 80s	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 31.00
Depth of Well (feet): 41.10
Water Column (feet): 10.1
Casing Volume (gallons/liters): 1.65
Calculated Purge Volume (gallons/liters): 4.44
Actual Purge Volume (gallons/liters): 4.50
Pump Intake Depth (feet): 38'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: No pink color
Ferrous Iron (mg/L): 0.01

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY ~~(µs/cm)~~ mS/cm	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:36	0								PURGE START
11:45	0.30	18.87	4.88	6.52	241.3	0.051	73.57	32.33	cloudy
11:50	0.50	18.05	4.95	9.05	238.3	0.049	58.40	32.34	"
11:55	0.60	17.76	5.03	8.84	230.6	0.048	54.14	32.34	sl cloudy
12:00	0.80	17.78	5.11	8.90	226.4	0.048	44.22	32.36	"
12:10	1.0	19.14	5.61	9.69	202.1	0.049	35.82	32.35	"
12:15	1.15	18.54	5.62	10.40	203.5	0.049	33.76	32.37	"
12:20	1.35	18.56	5.58	10.42	204.3	0.049	29.58	32.34	"
12:25	1.48	19.25	5.61	10.28	202.7	0.048	28.94	32.37	"
12:35	1.70	19.56	5.64	11.97	198.6	0.050	24.75	32.33	"
12:40	1.80	19.65	5.64	12.16	198.6	0.050	20.77	32.34	"
12:45	1.90	19.46	5.64	12.49	196.9	0.050	19.48	32.36	clear
12:55	2.10	18.74	5.61	210.50	200.8	0.048	18.77	32.34	"
13:05	2.50	19.08	5.62	267.51	198.2	0.048	15.95	32.36	"
13:10	2.55	18.72	5.62	285.00	194.4	0.048	15.92	32.35	"
13:15	2.60	18.31	5.60	306.01	195.5	0.047	13.54	32.34	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS - Field Eqv	6/17/15
Turbidimeter	Scientific, Inc	Micro TPW ~~Earth Con~~ Field Eqv	6/17/15
Colorimeter	HACH	DR1820 - Earth Con	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-20	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	~~2~~ voa ~~40-mL~~ 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 ~~1 250-mL HDPE~~ 40 mL	H2SO4 + Zn Acetate	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
"	Ion Scan E300.0	1 ~~500~~ 125 mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-20	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/17/16
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 14:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter:
(circle one)
2" 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): ____
Depth of Well (feet): ____
Water Column (feet): ____
Casing Volume (gallons/liters): ____
Calculated Purge Volume (gallons/liters): ____
Actual Purge Volume (gallons/liters): ____
Pump Intake Depth (feet): ____

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY ~~(µS/cm)~~ mS/cm	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START
13:20	2.70	18.46	5.57	307.48	147.8	0.048	12.12	32.35	clear
13:25	2.90	18.70	5.59	314.06	147.4	0.047	11.70	32.34	"
13:30	3.00	18.00	5.61	330.57	146.3	0.048	10.67	32.35	"
13:35	3.05	17.65	5.61	355.67	144.3	0.047	10.29	32.36	"
13:40	3.25	18.28	5.60	373.48	146.0	0.047	11.24	32.36	"
13:45		17.21	5.55	378.52	148.4	0.047	10.30	32.35	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. AMW-21	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton, Henry /EarthCon	
SAMPLE TIME: 14:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Cloudy, 90's (light rain)	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 34.20
Depth of Well (feet): 45.43
Water Column (feet): 11.23
Casing Volume (gallons/liters): 1.83
Calculated Purge Volume (gallons/liters): 5.49
Actual Purge Volume (gallons/liters): 1.5
Pump Intake Depth (feet): 41'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: No pink color
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:50	0								PURGE START
14:005	0.50	17.60	6.21	629.18	162	193	8.46	34.16	clear
14:10	0.60	17.57	6.19	596.12	158.5	192	8.34	34.18	"
14:15	0.75	17.61	6.22	438.02	153.7	192	244	34.18	"
14:20	0.90	17.38	6.17	~~[illegible]~~	154.4	190	1.26	34.19	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS (Field)	6/18/15
Turbidimeter	Scientific, Inc	Micro TPW (Field)	6/18/15
Colorimeter	HACH	DR 820 (Earthcon)	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
AMW-21	VOCs SW 8260B	3 ~~8~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~8~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~8~~ voa ~~40-mL~~ 40 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 voa ~~1-250-mL HDPE~~ 40 mL	H2SO4	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH + Zn Acetate	
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-3	PROJECT # 02201403992.00	LOCATION Dalton, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1010	SITE	FIELD CONDITIONS/WEATHER Sunny 76°	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	35.07
Depth of Well (feet):	45.04
Water Column (feet):	10.97
Casing Volume (gallons/liters):	1.64
Calculated Purge Volume (gallons/liters):	4.93
Actual Purge Volume (gallons/liters):	1.25
Pump Intake Depth (feet):	≈ 40'

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____

Ferrous Iron (mg/L): 0.48 mg/L

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast

Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0903	0								PURGE START
0911	—	22.37	7.07	7.80	225.6	524	17.84	35.20	
0920	0.3	21.59	7.07	6.59	220.0	526	10.37	35.22	
0930	0.6	21.64	7.08	6.20	208.3	525	4.42	35.25	
0940	0.8	21.87	7.08	5.89	192.3	523	1.99	35.25	
0950	1.1	21.88	7.08	6.00	192.6	527	1.92	35.27	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/15
Turbidity	HF Scientific	MicroTPW 20000	6/23/15
Bladder pump	QED	MicroPurge well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	Phos Acid	
3	Meth, eth, eth	20 ml	—	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40 ml	HCl	
1	Nitrate	125 ml	—	Sulfate
1	Cl, Sulf, Alk	250ml	—	1 - 125 ml / Zn Ac / NaOH

Start pump - 0903
End pump - 0951

Sample - 1010

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-18-15
SAMPLE No. DMW-5	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME:	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, 97°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.13
Depth of Well (feet): 70.00
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): ~60 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: very cloudy and brown
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:45	0								PURGE START
12:15	0.25	25.31	7.40	8.86	131.3	605	>800	37.64	cloudy/brown
12:45	0.75	25.75	7.29	7.82	146.7	607	>800	38.40	cloudy/brown
13:25	Unable to sample; needs redevelopment								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556MPS	KGS-05; 07K100465	6-18-15
Turbidimeter	Hach 2100P	46500-00	6-18-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-5	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No. DMW-5	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 09:40	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 90°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

(potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 46.80
Depth of Well (feet): 70.00 (not measured)
Water Column (feet): 23.20
Casing Volume (gallons/liters): 3.78
Calculated Purge Volume (gallons/liters): 11.34
Actual Purge Volume (gallons/liters): 9.0
Pump Intake Depth (feet): ~60 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks: 20 foot screen; redeveloped 6/22/15
Ferrous Iron (mg/L): 0.08 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
08:04	0								PURGE START
08:17	0.1	20.71	7.09	8.39	206.8	557	45.10	47.91	cloudy
08:27	0.5	20.40	7.07	7.82	206.3	549	80.69	48.25	" "
08:38	0.75	20.38	7.10	7.53	204.7	552	67.81	48.81	" "
08:50	1.0	20.43	7.09	7.46	200.9	550	64.82	49.03	" "
09:01	1.25	21.06	7.10	6.72	195.6	556	43.29	49.39	" "
09:15	1.5	20.72	7.09	7.30	193.6	554	51.47	50.06	slightly cloudy
09:27	1.75	21.29	7.07	6.96	185.9	563	63.56	50.82	" "
09:37	2.0	21.59	7.05	6.94	183.3	569	63.33	51.26	" "
09:40	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	06G2421-AD	6-23-15
Turbidimeter	Micro TPW2000	20081226	6-23-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-5	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	~~2~~ voa 40-mL	~~HCl~~ Phos. Acid	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H2SO4~~	3 20-mL voa
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH + ZnAc	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-12	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No. DMW-12	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 19:50	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 95°F	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 28.76
Depth of Well (feet): 53.54 (measured 6-11-15)
Water Column (feet): 24.78
Casing Volume (gallons/liters): 4.04
Calculated Purge Volume (gallons/liters): 12.12
Actual Purge Volume (gallons/liters): 2.75
Pump Intake Depth (feet): ~48 feet

Measuring Point Elevation (feet): —
Groundwater Surface Elevation: —
LNAPL present: — thickness: —
DNAPL present: — thickness: —
Remarks:
Ferrous Iron (mg/L): 0.01 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
18:18	0								PURGE START
18:30	0.25	19.29	7.35	5.52	137.5	313	93.64	29.13	slightly cloudy
18:35	0.5	18.63	7.34	5.41	137.0	319	115.2	29.31	" "
18:50	1.0	17.97	7.34	6.26	142.1	306	168.7	29.82	very cloudy
18:57	1.25	18.20	7.33	5.80	142.6	301	186.0	29.88	" "
19:07	1.5	18.09	7.33	5.78	144.0	273	169.7	30.06	" "
19:17	1.75	18.00	7.34	6.47	143.4	322	189.8	30.16	" "
19:23	2.0	17.95	7.33	5.87	140.9	312	192.3	30.17	" "
19:30	2.25	17.89	7.31	5.08	139.3	295	170.6	30.20	" "
19:37	2.5	17.95	7.30	4.87	139.4	330	177.3	30.23	cloudy
19:44	2.75	17.73	7.30	4.95	137.3	298	173.5	30.27	" "
19:50	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump	QED	—	—
Water Quality	YSI 556 MPS	06G2421-A0-51995	6-23-15
Turbidimeter	Micro TPW 2000	200812226	6-23-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-12	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	~~H_2SO_4~~ Phos Acid	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-13	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-17-15
SAMPLE No. DMW-13	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf /EarthCon	
SAMPLE TIME: 13:00	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, 95°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- ~~potable water rinse~~
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: (2" = 0.163) 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 38.09
Depth of Well (feet): 51.19 (measured 6-11-15)
Water Column (feet): 13.10
Casing Volume (gallons/liters): 2.14
Calculated Purge Volume (gallons/liters): 6.41
Actual Purge Volume (gallons/liters): 3.5
Pump Intake Depth (feet): ~ 46 feet

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: Started at 1 cpm @ 50:10, pumped up to 1 cpm @ 40:20 to purge water, went back to 1 cpm @ 50:10
Ferrous Iron (mg/L): 0.00 mg/L *

Well Evacuation

Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:00	0								PURGE START
11:06	0.05	21.94	7.04	4.67	81.5	246	262	38.23	green/silty
11:14	0.2	21.25	6.31	3.91	100.9	220	230	38.19	" "
11:20	0.5	21.29	6.44	3.93	95.5	215	226	38.21	" "
11:35	1.0	20.84	6.33	4.15	106.1	189	201	38.29	" "
11:50	1.5	20.80	6.18	4.34	122.8	179	95.5	38.27	cloudy
12:05	2.0	21.39	6.24	4.33	124.7	174	44.4	38.20	less cloudy
12:12	2.25	21.80	6.25	4.20	121.0	173	30.1	38.22	
12:21	2.5	21.59	6.25	4.22	123.0	173	23.2	38.21	
12:30	2.75	22.98	6.27	4.07	123.3	173	17.0	38.23	clear
12:37	3.0	22.04	6.26	4.05	127.0	174	14.6	38.22	" "
12:47	3.25	22.48	6.27	3.98	128.0	174	10.0	38.14	" "
12:51	3.35	22.24	6.29	4.16	127.7	175	9.8	38.24	" "
12:58	3.5	22.20	6.27	4.10	129.2	173	9.7	38.23	" "
13:00	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump			—
Water Quality	YSI 556MPS	03G0881-A1	6-17-15
Turbidimeter	Hatch 2100Q	LPG239.01.00002	6-17-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-13	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	—	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 HDPE 125-mL

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-14D	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/15/15
SAMPLE No DMW-14D	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Danielle Edwards	/EarthCon
SAMPLE TIME: 11:55	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 80-90°F	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 12.44
Depth of Well (feet): 59.20
Water Column (feet): 43.76
Casing Volume (gallons/liters): 7.13
Calculated Purge Volume (gallons/liters): 21.40
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 54.0 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NA thickness:
DNAPL present: NA thickness:
Remarks: no pink color
Ferrous Iron (mg/L): 0.08 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:07	0								PURGE START
10:12	—	17.22	8.60	8.95	190.8	496	42.1	17.35	clear
10:17	0.50	15.90	8.65	9.39	186.2	468	43.2	18.15	clear
10:22	0.70	15.83	8.73	9.50	176.7	466	47.8	19.40	clear
10:27	1.10	15.84	8.79	8.84	167.3	466	38.5	20.32	clear
10:32	1.30	15.84	8.85	7.86	161.1	466	30.0	21.31	clear
10:37	1.55	15.95	8.91	7.52	150.6	462	30.8	22.06	clear
10:42	1.75	16.00	8.99	6.92	143.4	456	27.0	22.72	clear
10:47	2.00	15.92	8.99	7.31	140.3	457	28.1	23.56	clear
10:52	2.40	16.16	9.06	6.60	129.1	454	24.9	24.02	clear
11:02	2.75	15.99	9.08	6.05	120.7	451	19.3	24.88	clear
11:12	3.30	16.09	9.16	4.96	87.3	445	16.0	25.84	clear
11:22	3.75	16.45	9.22	4.94	62.8	446	14.3	26.26	clear
11:32	4.40	16.39	9.21	4.95	59.1	444	14.3	26.90	clear
11:42	5.00	16.59	9.24	4.86	56.2	444	13.9	27.52	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Peristaltic pump	Geotech	Geopump w/ teflon tubing	—
Turbidimeter	Hach	2100Q	6/15/15
Multimeter	YSI	556, Serial No. 17098IX	6/15/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-14D	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 voa 40-mL ~~1 250-mL HDPE~~	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE 125	-	

EARTHCON®

Groundwater Sampling Record

WELL No. DMW-15	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd. Dalton, Whitfield County, GA	DATE 6/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry, /EarthCon	
SAMPLE TIME: 11:25	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 70's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 19.59
Depth of Well (feet): 31.18
Water Column (feet): 11.59
Casing Volume (gallons/liters): 1.89
Calculated Purge Volume (gallons/liters): 5.67
Actual Purge Volume (gallons/liters): 2.75
Pump Intake Depth (feet): 25.00

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:19	0								PURGE START
10:20	0.25	15.52	5.87	1.73	94.5	268	1.66	19.90	Clear
10:25	0.50	15.81	5.70	1.43	88.4	242	6.73	19.85	"
10:30	0.75	15.82	5.29	1.32	104.1	189	6.37	19.87	"
10:35	1.0	15.72	5.31	1.25	98.8	178	6.57	19.89	"
10:40	1.15	15.80	5.32	1.16	108.0	174	8.31	19.91	"
10:45	1.35	15.66	5.10	1.17	126.7	173	5.47	19.91	"
10:50	1.50	15.80	5.25	1.37	121.3	166	4.84	19.93	"
10:55	1.80	15.91	5.09	1.42	131.5	165	3.79	19.92	"
11:00	2.0	15.92	5.26	1.37	131.9	161	3.97	19.93	"
11:05	2.20	15.71	5.29	1.33	133.0	159	3.84	19.93	"
11:10	2.50	15.78	5.29	1.30	134.7	156	4.50	19.94	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS	6/15/15
Turbidimeter	Scientific, Inc	Micro TPW	6/15/15
Colorimeter	HACH	DR/820	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
DMW-15	VOCs SW 8260B	2 voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	1 250-mL HDPE	H2SO4	
"	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
"	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. ARW-1	PROJECT # 02.20140392.00	LOCATION Dalton, GA	DATE 6/24/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1030	SITE	FIELD CONDITIONS/WEATHER Sunny 80°	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.34
Depth of Well (feet): 45.00
Water Column (feet): 17.66
Casing Volume (gallons/liters): 11.53
Calculated Purge Volume (gallons/liters): 34.6
Actual Purge Volume (gallons/liters): 1.3
Pump Intake Depth (feet): ≈40'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.04 mg/l

Well Evacuation

Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0928	0								PURGE START
0935	—	19.73	7.37	5.85	183.3	391	10.99	27.36	
0945	0.25	18.52	7.31	3.85	154.4	384	0.45	27.43	
0955	0.6	18.43	7.22	3.46	146.8	383	0.00	27.41	
1005	0.9	18.50	7.27	3.28	141.3	382	0.06	27.46	
1015	1.25	18.54	7.29	3.25	135.2	382	0.00	27.45	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/24/15
Turbidity	HF Scientific	Micro TPW 20000	6/24/15
Bladder pump	QED	Micro Purge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	Phos. Acid	
3	Meth, Eth, Eth	20 ml	—	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40ml	HCl	
1	Nitrate	125ml	—	Sulfate
1	Cl, Sulf, Alk	250 ml	—	1-125ml 2N AC NaOH

Start purge - 0928
End purge - 1016

Sample ARW-1 - 1030

EARTHCON®

Groundwater Sampling Record

WELL No. ARW-2	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/23/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton, Henry	/EarthCon
SAMPLE TIME: 1000	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hazy, Sunny, 70's	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653); 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 35.70
Depth of Well (feet): [redacted] 60.70
Water Column (feet): [redacted] 24.6
Casing Volume (gallons/liters): [redacted] 16.06
Calculated Purge Volume (gallons/liters): [redacted] 48.14
Actual Purge Volume (gallons/liters): ~ 56' 3.25
Pump Intake Depth (feet):

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 1.04

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
8:15	0								PURGE START
8:25	0.05	20.64	5.98	8.68	250.9	403	317	35.86	cloudy
8:30	0.40	19.98	4.71	5.72	314.8	388	115	36.00	"
8:35	0.50	19.89	4.85	5.30	312.7	386	96.2	36.05	"
8:45	0.75	19.96	4.78	4.78	283.9	386	87.4	36.15	"
8:50	0.90	20.02	5.64	4.60	270.7	387	93.8	36.20	"
8:55	1.0	20.13	5.82	4.44	264.3	388	84.2	36.23	"
9:00	1.15	19.90	6.01	4.49	257.2	387	91.7	36.26	"
9:10	1.45	19.72	5.52	5.00	286.8	382	95.1	36.40	"
9:15	1.55	19.51	5.56	4.82	286.7	383	88.8	36.42	"
9:25	1.80	19.85	6.17	4.95	255.1	387	90.0	36.43	"
9:30	1.95	19.90	6.34	4.82	244.0	388	92.1	36.45	
9:35	2.05	20.02	6.41	4.71	236.9	388	93.0	36.45	"
9:40	2.25	19.80	6.48	4.73	230.9	387	94.2	36.48	"
9:45	2.30	19.82	6.44	4.75	230.1	386	86.0	36.48	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Hold on pump			
H2O Parameter Meter	YSI	556-MPS C	6/22/15
Turbidimeter	Hanna	HI 98703	6/22/15
Colorimeter	HACH	DR/820	—

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
ARW-2	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40 mL~~ 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 Voa ~~1 250-mL HDPE~~ 40 mL	~~H2SO4~~	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH + Zn Acetate	
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

Subtract .27 from WL measurements due to sensor placement on rod

EARTHCON®

Groundwater Sampling Record

WELL No. ARW-3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/18/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 10:30	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 80's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 29.77
Depth of Well (feet): 52.54
Water Column (feet): 22.77
Casing Volume (gallons/liters): ~~3.71~~ 14.87
Calculated Purge Volume (gallons/liters): ~~11.13~~ 44.61
Actual Purge Volume (gallons/liters): 1.25
Pump Intake Depth (feet): 46'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks: no pink color
Ferrous Iron (mg/L): 0.01

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:38	0								PURGE START
9:50	0.05	17.46	6.69	210.5	189.5	180	18.51	29.80	clear
9:55	0.25	17.72	6.34	223.59	193.7	178	15.00	29.78	"
10:00	0.50	17.42	6.47	260.58	183.1	178	8.30	29.80	"
10:05	0.60	17.00	6.36	294.83	185.3	173	1.86	29.77	"
10:10	0.75	16.90	6.37	315.15	182.5	170	0.97	29.80	"
10:15	0.90	16.84	6.40	328.94	178.3	168	0.58	29.79	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS (Field)	6/18/15
Turbidimeter	Scientific, Inc	Micro TPW (Field)	6/18/15
Colorimeter	HACH	DR 1200 (Earth Gen)	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
ARW-3	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20 mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	3 Voa ~~1 250-mL~~ HDPE 40 mL	H2SO4	
"	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH	
"	Ion Scan E300.0	1 ~~500~~ 125-mL HDPE	-	

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Groundwater Sampling Record

WELL No. Aew-4	PROJECT # 02.20140392.00	LOCATION Dalton, GA	DATE 6/24/15
SAMPLE No.	PROJECT NAME Amc Dalton	FIELD PERSONNEL/COMPANY R. Dauk	/EarthCon
SAMPLE TIME: 0805	SITE	FIELD CONDITIONS/WEATHER Sunny 74°	

Well Condition Inspection (circle one)

cover: locked (not locked)
number: legible (not legible)
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" (4") 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; (4" = 0.653); 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 30.65
Depth of Well (feet): 61.00
Water Column (feet): 30.85
Casing Volume (gallons/liters): 20.14
Calculated Purge Volume (gallons/liters): 60.43
Actual Purge Volume (gallons/liters): 1.75
Pump Intake Depth (feet): ≈55'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.04 mg/l

Well Evacuation

Water level recovery is: very slow slow moderate (fast)
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0650	0								PURGE START
0705	—	18.10	5.92	6.51	286.4	699	53.35	30.22	
0715	0.4	17.79	5.73	2.36	268.0	701	11.34	30.22	
0725	0.7	17.55	6.17	1.30	226.1	700	6.72	30.23	
0735	1.0	17.71	6.50	0.87	193.3	700	5.13	30.23	
0745	1.3	17.68	6.63	0.71	176.3	700	4.68	30.23	
0755	1.7	17.67	6.68	0.64	163.0	699	3.56	30.27	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/24/15
Turbidity	HF Scientific	Micro TPW 20000	6/24/15
Bladder pump	QED	Micro Purge Well Wizard	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	TOC	40ml	phos. Acid	
3	Meth, Eth, Eth	20ml	—	
3	1,4-Dioxane	40ml	HCl	
3	VOCs	40ml	HCl	
1	Nitrate	125ml	—	Sulfide
1	Cl, Sulf, Alk	250ml	—	1 — 125ml NaOH Zinc

Start Purge - 0650
End Purge - 0754

Sample - 0805

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Groundwater Sampling Record

WELL No. OBG-W3	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-17-15
SAMPLE No. OBG-W3	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY S. Woolf	/EarthCon
SAMPLE TIME: 19:05	SITE Dalton, GA	FIELD CONDITIONS/WEATHER sunny, 95-100°F	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- (potable water and phosphate-free soap)
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- (air dry)

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 36.25
Depth of Well (feet): 44.13 (measured 6-11-15)
Water Column (feet): 7.88
Casing Volume (gallons/liters): 1.28
Calculated Purge Volume (gallons/liters): 3.85
Actual Purge Volume (gallons/liters): 2.5
Pump Intake Depth (feet): ~39 feet

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate (fast) Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
16:57	0								PURGE START
17:05	0.1	27.16	6.88	4.81	71.3	164	374	36.27	cloudy
17:22	0.5	23.15	6.47	4.28	87.0	178	205	36.34	" "
17:45	1.0	22.38	6.47	4.46	85.8	198	93.7	36.37	" "
18:00	1.25	20.60	6.34	4.57	51.2	200	67.0	36.39	" "
18:07	1.5	20.49	6.17	4.59	51.0	196	56.1	36.41	less cloudy
18:17	1.75	21.37	6.44	4.77	98.1	207	43.7	36.39	" "
18:31	2.0	23.33	6.59	4.57	94.9	214	27.2	36.36	clear
18:45	2.25	23.00	6.65	4.81	107.3	203	31.5	36.35	clear
19:00	2.5	22.96	6.56	4.60	105.4	200	29.1	36.35	clear
19:05	SAMPLE								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Bladder Pump			—
Water Quality	YSI 556MPS	03G0881-A1	6-17-15
Turbidimeter	Hach 2100Q	LPG239.01.00002	6-17-15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W3	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	~~1 250-mL HDPE~~	H2SO4	3 voa 40-mL
	Sulfide SM4500-S2-F	~~1 500-mL HDPE~~	NaOH	1 250-mL HDPE
	Ion Scan E300.0	~~1 500-mL HDPE~~	-	1 125-mL HDPE

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Groundwater Sampling Record

WELL No. 086-[redacted] W4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/17/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: 19:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 90's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft^3)
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.69
Depth of Well (feet): 41.52
Water Column (feet): 13.88
Casing Volume (gallons/liters): 2.26
Calculated Purge Volume (gallons/liters): 6.78
Actual Purge Volume (gallons/liters): 4.5
Pump Intake Depth (feet): 36'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
17:13	0								PURGE START
17:20	0.10	19.35	2.56	179.32	119.3	255	60.85	27.69	cloudy
17:30	0.15	18.78	6.74	258.63	60.0	253	60.89	27.75	"
1735	0.50	18.12	6.76	322.37	48.1	245	68.70	27.79	"
1740	0.65	17.26	6.64	348.11	44.5	227	66.40	27.74	"
1745	0.75	17.20	6.61	370.18	56.2	212	66.23	27.70	"
17:55	1.0	17.94	6.53	380.14	80.0	197	58.03	27.73	"
18:00	1.35	16.96	6.39	430.05	100.5	176	31.80	27.80	"
18:05	1.5	16.64	6.23	436.61	115.2	162	22.56	27.83	sl cloudy
1810	1.80	16.52	6.26	437.87	119.3	153	15.69	27.85	"
18:15	2.0	16.51	6.23	436.67	128.6	149	13.08	27.85	
18:20	2.20	16.50	6.23	430.04	134.5	148	10.49	27.83	"
1825	2.45	16.36	6.24	460.10	140.1	148	87.16	27.89	recalibrated turbidimeter
1830	2.65	16.38	6.22	444.31	144.6	146	69.68	27.86	sl cloudy
1840	3.0	16.44	6.22	474.28	151.7	144	65.08	27.85	"
1845	3.25	16.41	6.20	481.07	158.7	143	60.18	27.87	"

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H_2O Parameter Meter	YSI	556 MPS - Field Eqn.	6/16/15
Turbidimeter	Scientific Inc.	MicroTPW - Earth Con	6/16/15
Colorimeter	HACH	DR/820 - Earth Con	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
	MNA Gases SOP-RSK175	3 ~~2~~ voa ~~40-mL~~ 20 mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	3 Voa ~~1 250-mL HDPE~~ 40 mL	H2SO4	
	Sulfide SM4500-S2-F	1 ~~500~~ 250-mL HDPE	NaOH + Zn Acetate	
	Ion Scan E300.0	1 ~~500~~ 250-mL HDPE	-	

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Groundwater Sampling Record

WELL No. OBG-W4	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/17/16
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Hess	/EarthCon
SAMPLE TIME: 19:10	SITE Dalton, GA	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter:
(circle one)
2" 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): ____
Depth of Well (feet): ____
Water Column (feet): ____
Casing Volume (gallons/liters): ____
Calculated Purge Volume (gallons/liters): ____
Actual Purge Volume (gallons/liters): ____
Pump Intake Depth (feet): ____

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START
18:50	3.60	16.40	6.18	521.83	162.1	140	58.20	27.87	
18:55	3.90	16.44	6.21	544.73	163.0	141	53.15	27.85	
19:00	4.10	16.39	6.20	555.34	165.5	138	46.49	27.86	
1905	4.25	16.31	6.18	661.80	162.5	137	47.10	27.85	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. OBG-W5	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry	/EarthCon
SAMPLE TIME: ~~1540~~ 1600	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Mostly Sunny, 90's	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 5.44
Depth of Well (feet): 15.71
Water Column (feet): 10.27
Casing Volume (gallons/liters): 1.67
Calculated Purge Volume (gallons/liters): 5.02
Actual Purge Volume (gallons/liters): 2.5
Pump Intake Depth (feet): 10'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.00

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1501	0								PURGE START
1505	~~0.20~~ 0.20	16.41	5.74	6.48	178.6	153	0.28	5.52	clear
1510	0.60	16.42	5.07	6.01	189.9	154	3.22	5.51	"
1515	0.90	16.60	5.51	5.54	201.2	239	1.29	5.51	"
1520	1.25	16.41	5.66	5.42	204.9	256	0.48	5.51	"
1525	1.50	16.46	5.71	5.35	212.1	258	0.01	5.51	"
1530	1.80	16.31	5.73	5.40	217.4	260	0.22	5.52	"
1535	2.10	16.04	5.79	5.42	221.7	261	0.03	5.52	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
H2O Parameter Meter	YSI	556 MPS	6/15/15
Turbidimeter	Scientific, Inc	Micro TPW	6/15/15
Colorimeter	HACH	DR/820	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W5	VOCs SW 8260B	3 ~~2~~ voa 40-mL	HCl	
"	1,4-Dioxane SW8260B-SIM	3 ~~2~~ voa 40-mL	HCl	
"	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
"	Alkalinity SM2320B	1 250-mL HDPE	-	
"	TOC SM5310B	1 250-mL HDPE	H2SO4	
"	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

DUP-1 – VOCs SW 8260B 3 voa 40mL

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Groundwater Sampling Record

WELL No. OBG-W8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6/15/15
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY Keaton Henry /EarthCon	
SAMPLE TIME:	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Sunny, 90's	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 15.14
Depth of Well (feet): 52.44
Water Column (feet): 37.3
Casing Volume (gallons/liters): 6.08
Calculated Purge Volume (gallons/liters): 18.24
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 47'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L):

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1754	0								PURGE START
1800	0.60	16.41	10.12	5.54	142.9	337	1.40	18.07	clear
1805	0.80	16.48	9.89	5.40	151.8	340	1.77	19.44	"
1810	0.90	17.01	9.80	5.27	151.1	334	2.15	20.45	"
1815	1.0	16.86	9.86	5.26	145.7	345	1.99	21.81	"
1820	1.30	16.55	9.95 93	5.24	138.6	346	1.02	22.84	"
1825	1.50	16.59	9.99	5.21	131.7	347	1.58	24.15	"
1830	1.65	17.07	10.01	5.07	126.1	343	1.46	25.02	"
~~1840~~		~~16.86~~	~~10.04~~	~~5.10~~					
1850	2.0	17.83	10.08	5.02	108.6	349	1.65	27.34	"
1855	2.10	19.24	10.07	4.39	104.5	348	1.20	27.69	
19:00	2.15	19.95	10.07	4.21	101.2	349	1.23	28.00	
19:10	2.25	16.54	10.13	5.41	92.1	348	1.68	29.05	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

pump stop at 1839
pump started at 1846

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Groundwater Sampling Record

WELL No. OBG-W8	PROJECT # 02.20140392.00	LOCATION 310 Brookhollow Industrial Blvd, Dalton, Whitfield County, GA	DATE 6-15-18
SAMPLE No.	PROJECT NAME AMC Dalton	FIELD PERSONNEL/COMPANY TGIBLER	/EarthCon
SAMPLE TIME: 11:15	SITE Dalton, GA	FIELD CONDITIONS/WEATHER Hot humid	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 27.22
Depth of Well (feet): 52.44
Water Column (feet):
Casing Volume (gallons/liters):
Calculated Purge Volume (gallons/liters):
Actual Purge Volume (gallons/liters):
Pump Intake Depth (feet): 47'

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: NO thickness: NO
DNAPL present: NO thickness: NO
Remarks:
Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:55	0								PURGE START
11:05	—	—	—	—	—	—	—	27.90	Adj. pump
11:10						335		28.50	Adj. pump
11:15		15.71	9.81	4.94	121.5	335	6.50	31.45	slow flow
11:20		16.13	10.08	4.58	97.5	335	4.22	34.55	
11:25		16.19	10.17	4.55	90.1	335	4.85	35.75	
11:30		16.28	10.27	4.54	79.0	335	6.10	37.18	
11:35		16.38	10.38	4.56	73.2	335	5.65	38.35	slow pump
11:40		16.36	10.43	4.60	69.4	335	3.53	40.25	
11:45		16.44	10.45	4.56	66.1	335	3.86	40.68	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
multi-parm	YSI	556	6-15-18
Turb	Hach	2100P	6-15-18
Bladder Pump	Geotech	Geotech PID / SS pump	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE	PRESERVATIVE	QA REMARKS
OBG-W8	VOCs SW 8260B	2 voa 40-mL	HCl	
	1,4-Dioxane SW8260B-SIM	2 voa 40-mL	HCl	
	MNA Gases SOP-RSK175	2 voa 40-mL	HCl	
	Alkalinity SM2320B	1 250-mL HDPE	-	
	TOC SM5310B	1 250-mL HDPE	H2SO4	
	Sulfide SM4500-S2-F	1 500-mL HDPE	NaOH	
	Ion Scan E300.0	1 500-mL HDPE	-	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-23	PROJECT 02.2014.0502.00	LOCATION Dalton Ga	DATE 6/22/05
SAMPLE No.	PROJECT NAME Rmc Dalton	FIELD PERSONNEL/COMPANY K. Davis	/EarthCon
SAMPLE TIME: 1350	SITE	FIELD CONDITIONS/WEATHER Sunny 90°	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): ____
Depth of Well (feet): ____
Water Column (feet): ____
Casing Volume (gallons/liters): ____
Calculated Purge Volume (gallons/liters): ____
Actual Purge Volume (gallons/liters): ____
Pump Intake Depth (feet): ____

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): ____

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
	0								PURGE START

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
3	VOCs 8260	40ml	HCl	Diffusion bag
3	1,4 Dioxane 8260	40ml	HCl	

Sample 1350

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Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-1-UPSTREAM	PROJECT NAME: AMC DALTON	DATE: 6-22-15
FACILITY NUMBER:	LOCATION: DALTON, GA	TIME: 13:30
SAMPLING CONTACT/COMPANY: EarthCon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 90°F

FIELD TEAM (signature/company): Samantha Wolf / EarthCon Consultants

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.37

Dissolved Oxygen (ppm): 7.26 Water Temperature (°C): 24.48

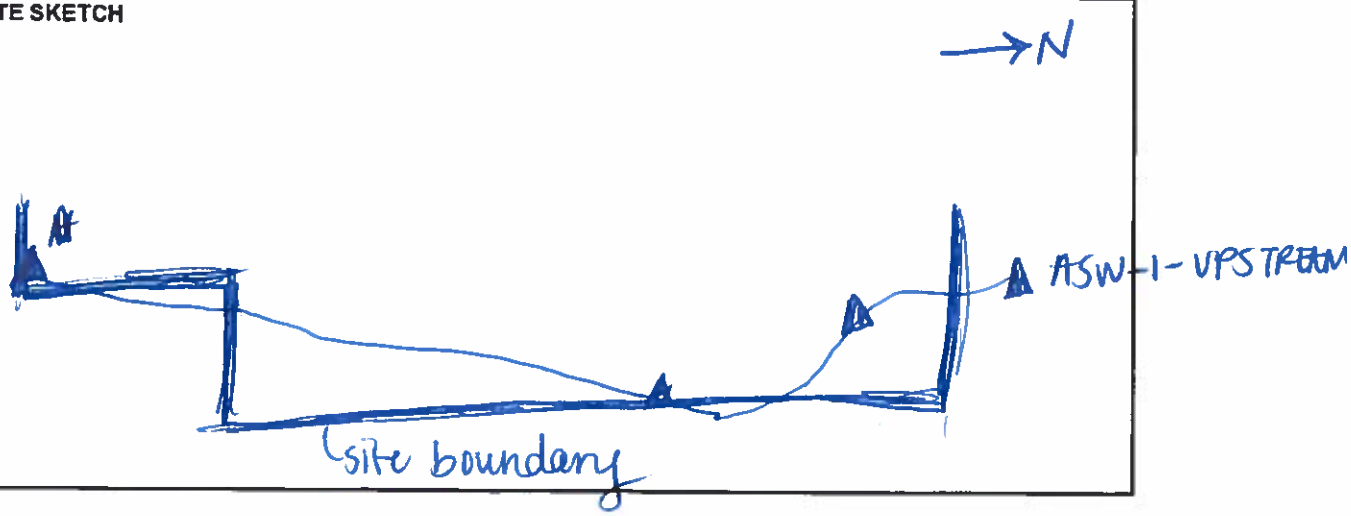
SC @ Field Temperature (microhos/cm): ~~[illegible]~~ 263 SNW Estimated Streamflow (cfs): —

Turbidity: 6.83 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-1-UPSTREAM	6/22/2015 / 13:30		3 40-mL voa	NO	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-1	PROJECT NAME: AMC Dalton	DATE: 6-22-15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 13:45
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 95°F

FIELD TEAM (signature/company): Samantha Woolf / Earthcon

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.39

Dissolved Oxygen (ppm): 6.64 Water Temperature (°C): 22.93

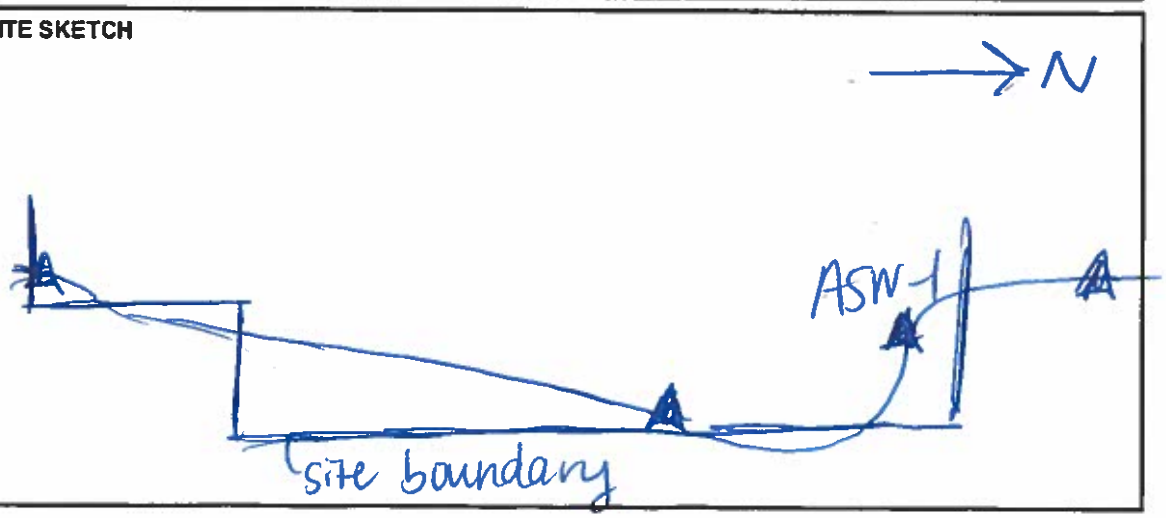
SC @ Field Temperature (microhos/cm): 297 Estimated Streamflow (cfs): —

Turbidity: 3.83 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-1	6/22/2015	13:45	3 40-mL VOA	NO	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Environmental Challenges
BUSINESS SOLUTIONS®

Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-2	PROJECT NAME: AMC Dalton	DATE: 6-22-15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 14:00
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 95°F

FIELD TEAM (signature/company): Samantha Woolf / Earthcon

FIELD MEASUREMENTS

Gauge Height: —— Substrate Level on Gauge: —— pH: 7.15

Dissolved Oxygen (ppm): 6.02 Water Temperature (°C): 22.74

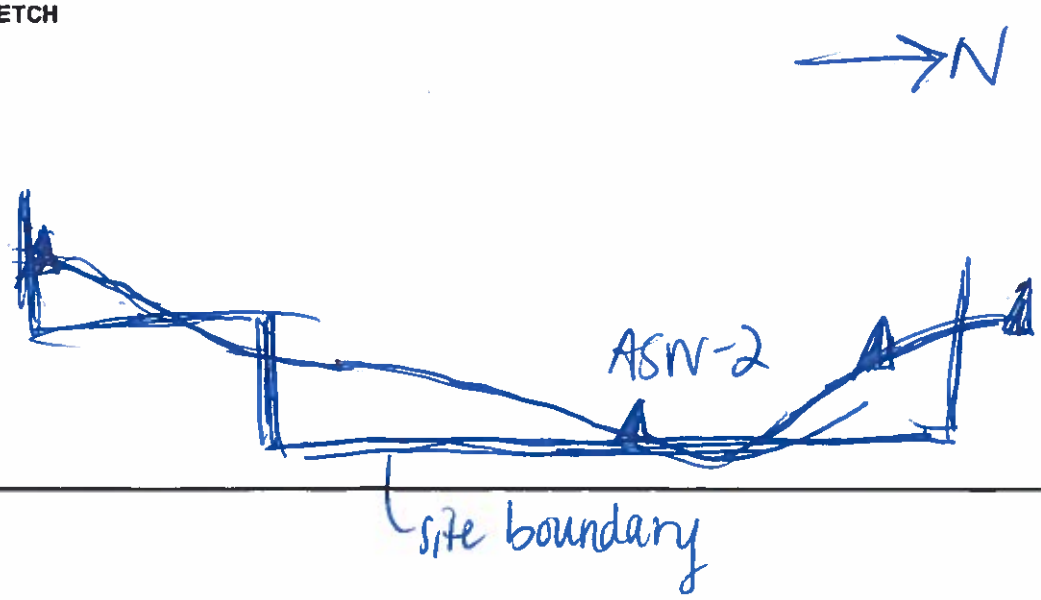
SC @ Field Temperature (microhos/cm): 281 Estimated Streamflow (cfs): ——

Turbidity: 2.33 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	~~STATION~~	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-2	6/22/15	14:00	3 40-mL voa	NO	HCl	VOCs
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



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Environmental Challenges
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Surface Water Sampling Field Data Form

STATION IDENTIFICATION: ASW-BYPASS	PROJECT NAME: AMC DALTON	DATE: 6-22-15
FACILITY NUMBER:	LOCATION: Dalton, GA	TIME: 14:30
SAMPLING CONTACT/COMPANY: Earthcon	SAMPLER'S PROJECT NUMBER: 02.20140392.00	

FIELD CONDITIONS/ WEATHER: Sunny, 95°F

FIELD TEAM (signature/company): Samantha Wood / Earthcon

FIELD MEASUREMENTS

Gauge Height: — Substrate Level on Gauge: — pH: 7.63

Dissolved Oxygen (ppm): 6.16 Water Temperature (°C): 31.65

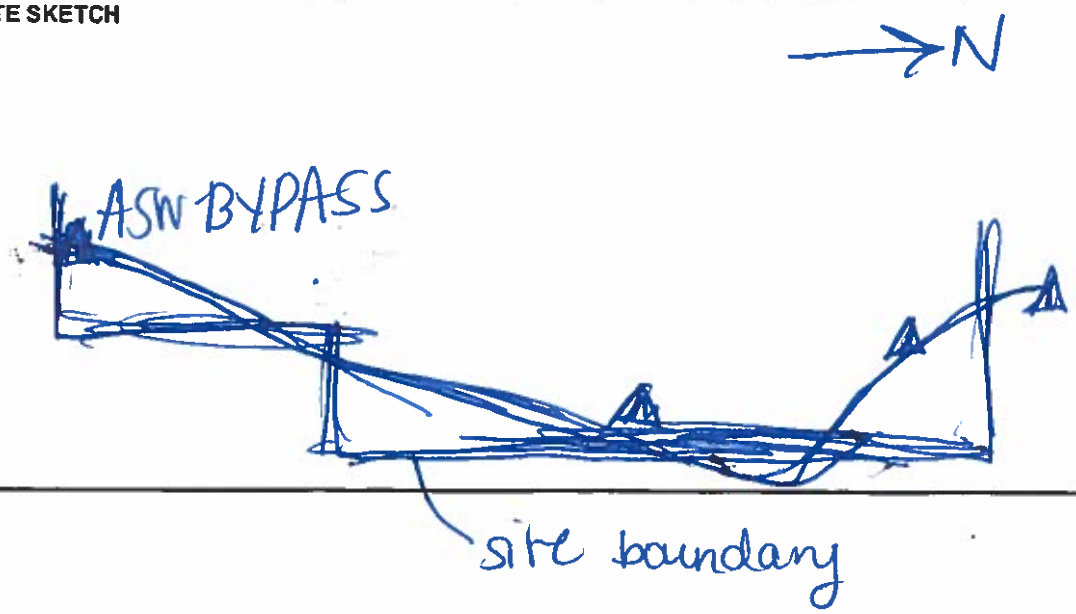
SC @ Field Temperature (microhos/cm): 312 Estimated Streamflow (cfs): —

Turbidity: 27.88 NTU

WATER QUALITY SAMPLES

	SAMPLE No.	DATE / TIME	STATION →	CONTAINER TYPE	FILTERED	PRESERVATIVE	ANALYSIS
1.	ASW-	6/22/15	14:30	3 40-mL vial	NO	HCl	VOCs
2.	BYPASS						
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							

SITE SKETCH



APPENDIX C

LABORATORY ANALYTICAL REPORTS

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 11, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC Dalton

Dear Kristen Rivera: Order No: 1503G88

Analytical Environmental Services, Inc. received 14samples on 3/18/2015 12:54:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/11/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1503G88

Date: 3/17/15 Page 1 of

COMPANY: Earth Con
ADDRESS: 1880 West Oak Pkwy Bldg 100 Suite 106 Marietta, GA 30062
PHONE: 770-973-2100
FAX: 770-973-7395
SAMPLED BY: Kent Davis
SIGNATURE:

ANALYSIS REQUESTED: VOCs; MNA Gases; 1,4-Dioxane; TOC; Fe, Mn; Sulfide; Alkalinity

PRESERVATION (See codes): H+I; I; H+I; S+I; I; O; I

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	MNA Gases	1,4-Dioxane	TOC	Fe, Mn	Sulfide	Alkalinity	REMARKS	No # of Containers
1	AMW 20	3/17/15	11:10	X		GW	2	2	2	1	1	1	1		10
2	ARW 3	3/17/15	11:35	X		GW	2	2	2	1	1	1	1		10
3	GBG-W5	3/17/15	1132	X		GW	2	2	2	1	1	1	1		10
4	AMW-14	3/17/15	14:50	X		GW	2	2	2	1	1	1	1		10
5	AMW-21	3/17/15	1520	X		GW	2	2	2	1	1	1	1		10
6	AMW-15	3/17/15	1505	X		GW	2	2	2	1	1	1	1		2
7	EB-1	3/17/15	15:50	X		W	2								2
8	EB-2	3/17/15	1555	X		W	2								2
9	DUP-1	3/17/15	0000	X		GW	2		2						4
10	AMW-16	3/17/15	16:40	X		GW	2	2	2	1	1	1	1		10
11	AMW-2	3/17/15	17:10	X		GW	2	2	2	1	1	1	1		10
12	TRIP BLANK	—	—	X		W	2								2
13	DMW-12	3/17/15	18:15	X		GW	2	2	2	1	1	1	1		10
14	AMW-1	3/17/15	18:45	X		GW	2	2	2	1	1	1	1		10

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:		1: [signature]	3-18-15 10:42 AM
2: [signature]	3-18-2015 12:54	2: Katie Farmer	3-18-15 12:54
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: See QAPP

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: AMC - Dalton
PROJECT #: 02.20140392.00
SITE ADDRESS: Dalton, GA
SEND REPORT TO: Kristen Rucka
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- ⊗ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC Dalton
Lab ID: 1503G88

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1503G88-005, -013 and -014 required dilution during preparation and/or analysis resulting in elevated reporting limits.

TOC Analysis by Method SM 5310B:

Due to sample matrix, samples 1503G88-005, -013 and -014 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Revision:

Per Kristen Rivera via email 8/6/2015, the TCL list was reported for VOCs for all samples. In addition, results were reported in mg/L.

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW 20
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:10:00 AM
Lab ID:	1503G88-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 12:48	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 17:30	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 17:30	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 17:30	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW 20
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:10:00 AM
Lab ID:	1503G88-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Tetrachloroethene	0.014	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Trichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:30	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 17:30	NP
Surr: 4-Bromofluorobenzene	96.4	70.6-123		%REC	204795	1	03/23/2015 17:30	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204795	1	03/23/2015 17:30	NP
Surr: Toluene-d8	99.3	81.3-120		%REC	204795	1	03/23/2015 17:30	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	1.16	1.00		mg/L	R288184	1	03/18/2015 16:18	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288184	1	03/18/2015 16:18	JW
Sulfate	1.26	1.00		mg/L	R288184	1	03/18/2015 16:18	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:23	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:23	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:23	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	20.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 12:24	NP
Surr: 4-Bromofluorobenzene	85	70.6-123		%REC	204870	1	03/20/2015 12:24	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 12:24	NP
Surr: Toluene-d8	100	77.1-119		%REC	204870	1	03/20/2015 12:24	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW 3
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:35:00 AM
Lab ID:	1503G88-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 13:05	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 18:40	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 18:40	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
cis-1,2-Dichloroethene	0.074	0.005		mg/L	204795	1	03/23/2015 18:40	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 18:40	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW 3
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:35:00 AM
Lab ID:	1503G88-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Tetrachloroethene	3.0	0.25		mg/L	204795	50	03/20/2015 22:37	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Trichloroethene	0.055	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:40	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 18:40	NP
Surr: 4-Bromofluorobenzene	93.8	70.6-123		%REC	204795	1	03/23/2015 18:40	NP
Surr: 4-Bromofluorobenzene	94.7	70.6-123		%REC	204795	50	03/20/2015 22:37	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	204795	1	03/23/2015 18:40	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	204795	50	03/20/2015 22:37	NP
Surr: Toluene-d8	99.7	81.3-120		%REC	204795	1	03/23/2015 18:40	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	204795	50	03/20/2015 22:37	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	2.26	1.00		mg/L	R288184	1	03/18/2015 16:32	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288184	1	03/18/2015 16:32	JW
Sulfate	8.35	1.00		mg/L	R288184	1	03/18/2015 16:32	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:29	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:29	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:29	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	117	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 12:50	NP
Surr: 4-Bromofluorobenzene	85.6	70.6-123		%REC	204870	1	03/20/2015 12:50	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 12:50	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 12:50	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-W5
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:37:00 AM
Lab ID:	1503G88-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 13:22	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 17:53	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 17:53	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
cis-1,2-Dichloroethene	0.18	0.005		mg/L	204795	1	03/23/2015 17:53	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 17:53	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-W5
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 11:37:00 AM
Lab ID:	1503G88-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Tetrachloroethene	8.7	0.25		mg/L	204795	50	03/20/2015 23:01	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Trichloroethene	0.13	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:53	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 17:53	NP
Surr: 4-Bromofluorobenzene	93	70.6-123		%REC	204795	1	03/23/2015 17:53	NP
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	204795	50	03/20/2015 23:01	NP
Surr: Dibromofluoromethane	114	78.7-124		%REC	204795	1	03/23/2015 17:53	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	204795	50	03/20/2015 23:01	NP
Surr: Toluene-d8	99	81.3-120		%REC	204795	1	03/23/2015 17:53	NP
Surr: Toluene-d8	98.6	81.3-120		%REC	204795	50	03/20/2015 23:01	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	3.31	1.00		mg/L	R288184	1	03/18/2015 16:47	JW
Nitrogen, Nitrate (As N)	0.377	0.250		mg/L	R288184	1	03/18/2015 16:47	JW
Sulfate	4.36	1.00		mg/L	R288184	1	03/18/2015 16:47	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:34	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:34	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:34	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	121	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 13:17	NP
Surr: 4-Bromofluorobenzene	86.1	70.6-123		%REC	204870	1	03/20/2015 13:17	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 13:17	NP
Surr: Toluene-d8	100	77.1-119		%REC	204870	1	03/20/2015 13:17	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-14
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 2:50:00 PM
Lab ID:	1503G88-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 13:38	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 19:04	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 19:04	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
cis-1,2-Dichloroethene	0.034	0.005		mg/L	204795	1	03/23/2015 19:04	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 19:04	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-14
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 2:50:00 PM
Lab ID:	1503G88-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Tetrachloroethene	0.67	0.25		mg/L	204795	50	03/20/2015 23:24	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Trichloroethene	0.026	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:04	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 19:04	NP
Surr: 4-Bromofluorobenzene	94.8	70.6-123		%REC	204795	50	03/20/2015 23:24	NP
Surr: 4-Bromofluorobenzene	94.6	70.6-123		%REC	204795	1	03/23/2015 19:04	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	50	03/20/2015 23:24	NP
Surr: Dibromofluoromethane	118	78.7-124		%REC	204795	1	03/23/2015 19:04	NP
Surr: Toluene-d8	99	81.3-120		%REC	204795	1	03/23/2015 19:04	NP
Surr: Toluene-d8	99.8	81.3-120		%REC	204795	50	03/20/2015 23:24	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	5.33	1.00		mg/L	R288184	1	03/18/2015 17:02	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288184	1	03/18/2015 17:02	JW
Sulfate	3.37	1.00		mg/L	R288184	1	03/18/2015 17:02	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:39	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:39	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:39	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	55.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 11:30	NP
Surr: 4-Bromofluorobenzene	86.1	70.6-123		%REC	204870	1	03/20/2015 11:30	NP
Surr: Dibromofluoromethane	107	78-126		%REC	204870	1	03/20/2015 11:30	NP
Surr: Toluene-d8	100	77.1-119		%REC	204870	1	03/20/2015 11:30	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-21
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:20:00 PM
Lab ID:	1503G88-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 13:55	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
2-Butanone	BRL	2.5		mg/L	204795	50	03/20/2015 23:48	NP
2-Hexanone	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
Acetone	BRL	2.5		mg/L	204795	50	03/20/2015 23:48	NP
Benzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Bromodichloromethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Bromoform	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Bromomethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Carbon disulfide	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Carbon tetrachloride	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Chlorobenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Chloroethane	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
Chloroform	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Chloromethane	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
cis-1,2-Dichloroethene	0.72	0.25		mg/L	204795	50	03/20/2015 23:48	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Cyclohexane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Dibromochloromethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
Ethylbenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Freon-113	BRL	0.50		mg/L	204795	50	03/20/2015 23:48	NP
Isopropylbenzene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
m,p-Xylene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Methyl acetate	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-21
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:20:00 PM
Lab ID:	1503G88-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Methylene chloride	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
o-Xylene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Styrene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Tetrachloroethene	22	2.5		mg/L	204795	500	03/23/2015 14:41	NP
Toluene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Trichloroethene	0.52	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204795	50	03/20/2015 23:48	NP
Vinyl chloride	BRL	0.10		mg/L	204795	50	03/20/2015 23:48	NP
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	204795	50	03/20/2015 23:48	NP
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	204795	500	03/23/2015 14:41	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	204795	50	03/20/2015 23:48	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204795	500	03/23/2015 14:41	NP
Surr: Toluene-d8	98.1	81.3-120		%REC	204795	50	03/20/2015 23:48	NP
Surr: Toluene-d8	101	81.3-120		%REC	204795	500	03/23/2015 14:41	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	7.20	1.00		mg/L	R288184	1	03/18/2015 17:16	JW
Nitrogen, Nitrate (As N)	0.341	0.250		mg/L	R288184	1	03/18/2015 17:16	JW
Sulfate	2.11	1.00		mg/L	R288184	1	03/18/2015 17:16	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:45	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:45	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:45	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	67.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 13:44	NP
Surr: 4-Bromofluorobenzene	87	70.6-123		%REC	204870	1	03/20/2015 13:44	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 13:44	NP
Surr: Toluene-d8	102	77.1-119		%REC	204870	1	03/20/2015 13:44	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-15
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:05:00 PM
Lab ID:	1503G88-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 14:13	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 17:07	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 17:07	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
cis-1,2-Dichloroethene	0.010	0.005		mg/L	204795	1	03/23/2015 17:07	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 17:07	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-15
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:05:00 PM
Lab ID:	1503G88-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Tetrachloroethene	0.22	0.050		mg/L	204795	10	03/23/2015 15:29	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Trichloroethene	0.006	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 17:07	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 17:07	NP
Surr: 4-Bromofluorobenzene	94.1	70.6-123		%REC	204795	1	03/23/2015 17:07	NP
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	204795	10	03/23/2015 15:29	NP
Surr: Dibromofluoromethane	114	78.7-124		%REC	204795	1	03/23/2015 17:07	NP
Surr: Dibromofluoromethane	114	78.7-124		%REC	204795	10	03/23/2015 15:29	NP
Surr: Toluene-d8	99.5	81.3-120		%REC	204795	1	03/23/2015 17:07	NP
Surr: Toluene-d8	99.2	81.3-120		%REC	204795	10	03/23/2015 15:29	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	2.64	1.00		mg/L	R288184	1	03/18/2015 17:31	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288184	1	03/18/2015 17:31	JW
Sulfate	2.62	1.00		mg/L	R288184	1	03/18/2015 17:31	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/23/2015 16:51	JM
Ethylene	BRL	0		mg/L	204842	1	03/23/2015 16:51	JM
Methane	BRL	0		mg/L	204842	1	03/23/2015 16:51	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	23.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 14:11	NP
Surr: 4-Bromofluorobenzene	85	70.6-123		%REC	204870	1	03/20/2015 14:11	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 14:11	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 14:11	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:50:00 PM
Lab ID:	1503G88-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/20/2015 21:27	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
Acetone	BRL	0.050		mg/L	204795	1	03/20/2015 21:27	NP
Benzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/20/2015 21:27	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:50:00 PM
Lab ID:	1503G88-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Tetrachloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Toluene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Trichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:27	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/20/2015 21:27	NP
Surr: 4-Bromofluorobenzene	93.2	70.6-123		%REC	204795	1	03/20/2015 21:27	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	204795	1	03/20/2015 21:27	NP
Surr: Toluene-d8	95.3	81.3-120		%REC	204795	1	03/20/2015 21:27	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-2
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:55:00 PM
Lab ID:	1503G88-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/20/2015 21:50	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
Acetone	BRL	0.050		mg/L	204795	1	03/20/2015 21:50	NP
Benzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/20/2015 21:50	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-2
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 3:55:00 PM
Lab ID:	1503G88-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Tetrachloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Toluene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Trichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:50	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/20/2015 21:50	NP
Surr: 4-Bromofluorobenzene	93.2	70.6-123		%REC	204795	1	03/20/2015 21:50	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	204795	1	03/20/2015 21:50	NP
Surr: Toluene-d8	97.6	81.3-120		%REC	204795	1	03/20/2015 21:50	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
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B	Analyte detected in the associated method blank	<	Less than Result value
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Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DUP-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015
Lab ID:	1503G88-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.007	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 19:28	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 19:28	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 19:28	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DUP-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015
Lab ID:	1503G88-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Tetrachloroethene	2.4	0.25		mg/L	204795	50	03/21/2015 00:35	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Trichloroethene	0.012	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:28	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 19:28	NP
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	204795	1	03/23/2015 19:28	NP
Surr: 4-Bromofluorobenzene	95.1	70.6-123		%REC	204795	50	03/21/2015 00:35	NP
Surr: Dibromofluoromethane	117	78.7-124		%REC	204795	1	03/23/2015 19:28	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	204795	50	03/21/2015 00:35	NP
Surr: Toluene-d8	98.4	81.3-120		%REC	204795	1	03/23/2015 19:28	NP
Surr: Toluene-d8	98.5	81.3-120		%REC	204795	50	03/21/2015 00:35	NP
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 14:38	NP
Surr: 4-Bromofluorobenzene	86.3	70.6-123		%REC	204870	1	03/20/2015 14:38	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 14:38	NP
Surr: Toluene-d8	99.8	77.1-119		%REC	204870	1	03/20/2015 14:38	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-16
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 4:40:00 PM
Lab ID:	1503G88-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 19:24	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.009	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 19:51	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 19:51	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 19:51	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-16
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 4:40:00 PM
Lab ID:	1503G88-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Tetrachloroethene	2.6	0.25		mg/L	204795	50	03/21/2015 00:59	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Trichloroethene	0.015	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 19:51	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 19:51	NP
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	204795	1	03/23/2015 19:51	NP
Surr: 4-Bromofluorobenzene	92.4	70.6-123		%REC	204795	50	03/21/2015 00:59	NP
Surr: Dibromofluoromethane	117	78.7-124		%REC	204795	1	03/23/2015 19:51	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	204795	50	03/21/2015 00:59	NP
Surr: Toluene-d8	100	81.3-120		%REC	204795	1	03/23/2015 19:51	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	204795	50	03/21/2015 00:59	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	3.22	1.00		mg/L	R288184	1	03/18/2015 17:46	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288184	1	03/18/2015 17:46	JW
Sulfate	3.78	1.00		mg/L	R288184	1	03/18/2015 17:46	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 12:30	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 12:30	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 12:30	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	119	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 15:05	NP
Surr: 4-Bromofluorobenzene	86.3	70.6-123		%REC	204870	1	03/20/2015 15:05	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 15:05	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 15:05	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-2
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 5:10:00 PM
Lab ID:	1503G88-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 19:38	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/23/2015 18:17	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
Acetone	BRL	0.050		mg/L	204795	1	03/23/2015 18:17	NP
Benzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/23/2015 18:17	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-2
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 5:10:00 PM
Lab ID:	1503G88-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Styrene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Tetrachloroethene	3.1	0.25		mg/L	204795	50	03/21/2015 01:23	NP
Toluene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Trichloroethene	0.005	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/23/2015 18:17	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/23/2015 18:17	NP
Surr: 4-Bromofluorobenzene	92.8	70.6-123		%REC	204795	1	03/23/2015 18:17	NP
Surr: 4-Bromofluorobenzene	92.6	70.6-123		%REC	204795	50	03/21/2015 01:23	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204795	1	03/23/2015 18:17	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	50	03/21/2015 01:23	NP
Surr: Toluene-d8	97.3	81.3-120		%REC	204795	1	03/23/2015 18:17	NP
Surr: Toluene-d8	99.8	81.3-120		%REC	204795	50	03/21/2015 01:23	NP
Sulfide by SM4500-S2-F								
Sulfide	1.20	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	9.23	1.00		mg/L	R288184	1	03/18/2015 18:01	JW
Nitrogen, Nitrate (As N)	0.505	0.250		mg/L	R288184	1	03/18/2015 18:01	JW
Sulfate	3.18	1.00		mg/L	R288184	1	03/18/2015 18:01	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 12:35	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 12:35	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 12:35	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	52.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 15:32	NP
Surr: 4-Bromofluorobenzene	84.7	70.6-123		%REC	204870	1	03/20/2015 15:32	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 15:32	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 15:32	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015
Lab ID:	1503G88-012	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
2-Butanone	BRL	0.050		mg/L	204795	1	03/20/2015 21:03	NP
2-Hexanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
Acetone	BRL	0.050		mg/L	204795	1	03/20/2015 21:03	NP
Benzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Bromodichloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Bromoform	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Bromomethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Carbon disulfide	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Carbon tetrachloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Chlorobenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Chloroethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
Chloroform	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Chloromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Cyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Dibromochloromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
Ethylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Freon-113	BRL	0.010		mg/L	204795	1	03/20/2015 21:03	NP
Isopropylbenzene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
m,p-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Methyl acetate	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Methylcyclohexane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Methylene chloride	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
o-Xylene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015
Lab ID:	1503G88-012	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Tetrachloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Toluene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Trichloroethene	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204795	1	03/20/2015 21:03	NP
Vinyl chloride	BRL	0.002		mg/L	204795	1	03/20/2015 21:03	NP
Surr: 4-Bromofluorobenzene	92.2	70.6-123		%REC	204795	1	03/20/2015 21:03	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	1	03/20/2015 21:03	NP
Surr: Toluene-d8	99.1	81.3-120		%REC	204795	1	03/20/2015 21:03	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-12
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 6:15:00 PM
Lab ID:	1503G88-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 15:33	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
2-Butanone	BRL	2.5		mg/L	204795	50	03/21/2015 01:47	NP
2-Hexanone	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
Acetone	BRL	2.5		mg/L	204795	50	03/21/2015 01:47	NP
Benzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Bromodichloromethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Bromoform	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Bromomethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Carbon disulfide	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Carbon tetrachloride	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Chlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Chloroethane	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
Chloroform	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Chloromethane	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
cis-1,2-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Cyclohexane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Dibromochloromethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
Ethylbenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Freon-113	BRL	0.50		mg/L	204795	50	03/21/2015 01:47	NP
Isopropylbenzene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
m,p-Xylene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Methyl acetate	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-12
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 6:15:00 PM
Lab ID:	1503G88-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Methylene chloride	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
o-Xylene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Styrene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Tetrachloroethene	48	2.5		mg/L	204795	500	03/23/2015 15:05	NP
Toluene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Trichloroethene	0.54	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204795	50	03/21/2015 01:47	NP
Vinyl chloride	BRL	0.10		mg/L	204795	50	03/21/2015 01:47	NP
Surr: 4-Bromofluorobenzene	94	70.6-123		%REC	204795	50	03/21/2015 01:47	NP
Surr: 4-Bromofluorobenzene	96.8	70.6-123		%REC	204795	500	03/23/2015 15:05	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	50	03/21/2015 01:47	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	204795	500	03/23/2015 15:05	NP
Surr: Toluene-d8	99.5	81.3-120		%REC	204795	50	03/21/2015 01:47	NP
Surr: Toluene-d8	97.8	81.3-120		%REC	204795	500	03/23/2015 15:05	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	4.69	1.00		mg/L	R288184	1	03/18/2015 18:15	JW
Nitrogen, Nitrate (As N)	0.360	0.250		mg/L	R288184	1	03/18/2015 18:15	JW
Sulfate	8.86	1.00		mg/L	R288184	1	03/18/2015 18:15	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 12:40	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 12:40	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 12:40	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	181	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 11:57	NP
Surr: 4-Bromofluorobenzene	87.2	70.6-123		%REC	204870	1	03/20/2015 11:57	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 11:57	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 11:57	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 6:45:00 PM
Lab ID:	1503G88-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 15:43	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
2-Butanone	BRL	2.5		mg/L	204795	50	03/21/2015 02:10	NP
2-Hexanone	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
Acetone	BRL	2.5		mg/L	204795	50	03/21/2015 02:10	NP
Benzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Bromodichloromethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Bromoform	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Bromomethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Carbon disulfide	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Carbon tetrachloride	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Chlorobenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Chloroethane	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
Chloroform	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Chloromethane	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
cis-1,2-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Cyclohexane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Dibromochloromethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
Ethylbenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Freon-113	BRL	0.50		mg/L	204795	50	03/21/2015 02:10	NP
Isopropylbenzene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
m,p-Xylene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Methyl acetate	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-1
Project Name:	AMC Dalton	**Collection Date:**	3/17/2015 6:45:00 PM
Lab ID:	1503G88-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Methylene chloride	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
o-Xylene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Styrene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Tetrachloroethene	150	5.0		mg/L	204795	1000	03/23/2015 15:52	NP
Toluene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Trichloroethene	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204795	50	03/21/2015 02:10	NP
Vinyl chloride	BRL	0.10		mg/L	204795	50	03/21/2015 02:10	NP
Surr: 4-Bromofluorobenzene	91.4	70.6-123		%REC	204795	50	03/21/2015 02:10	NP
Surr: 4-Bromofluorobenzene	95.3	70.6-123		%REC	204795	1000	03/23/2015 15:52	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	50	03/21/2015 02:10	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204795	1000	03/23/2015 15:52	NP
Surr: Toluene-d8	97.8	81.3-120		%REC	204795	50	03/21/2015 02:10	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	204795	1000	03/23/2015 15:52	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288263	1	03/24/2015 10:05	PF
Inorganic Anions by IC E300.0								
Chloride	4.75	1.00		mg/L	R288184	1	03/18/2015 18:30	JW
Nitrogen, Nitrate (As N)	0.382	0.250		mg/L	R288184	1	03/18/2015 18:30	JW
Sulfate	1.38	1.00		mg/L	R288184	1	03/18/2015 18:30	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 12:45	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 12:45	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 12:45	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	25.0	3.00		mg/L	R288371	1	03/24/2015 12:25	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 15:59	NP
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	204870	1	03/20/2015 15:59	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 15:59	NP
Surr: Toluene-d8	99.6	77.1-119		%REC	204870	1	03/20/2015 15:59	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EarthCon Consultants. Work Order Number 1503G88

Checklist completed by Katie Foreman 3/18/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 3.4°C Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 3-Apr-15

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503G88

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503G88-001A	AMW 20	3/17/2015 11:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-001A	AMW 20	3/17/2015 11:10:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-001B	AMW 20	3/17/2015 11:10:00AM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-001C	AMW 20	3/17/2015 11:10:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-001D	AMW 20	3/17/2015 11:10:00AM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-001E	AMW 20	3/17/2015 11:10:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-001F	AMW 20	3/17/2015 11:10:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-002A	ARW 3	3/17/2015 11:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-002A	ARW 3	3/17/2015 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-002A	ARW 3	3/17/2015 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-002B	ARW 3	3/17/2015 11:35:00AM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-002C	ARW 3	3/17/2015 11:35:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-002D	ARW 3	3/17/2015 11:35:00AM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-002E	ARW 3	3/17/2015 11:35:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-002F	ARW 3	3/17/2015 11:35:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-003A	OBG-W5	3/17/2015 11:37:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-003A	OBG-W5	3/17/2015 11:37:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-003A	OBG-W5	3/17/2015 11:37:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-003B	OBG-W5	3/17/2015 11:37:00AM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-003C	OBG-W5	3/17/2015 11:37:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-003D	OBG-W5	3/17/2015 11:37:00AM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-003E	OBG-W5	3/17/2015 11:37:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-003F	OBG-W5	3/17/2015 11:37:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-004A	AMW-14	3/17/2015 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-004A	AMW-14	3/17/2015 2:50:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-004A	AMW-14	3/17/2015 2:50:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-004B	AMW-14	3/17/2015 2:50:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-004C	AMW-14	3/17/2015 2:50:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-004D	AMW-14	3/17/2015 2:50:00PM	Groundwater	Inorganic Anions by IC			03/18/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503G88

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503G88-004E	AMW-14	3/17/2015 2:50:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-004F	AMW-14	3/17/2015 2:50:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-005A	AMW-21	3/17/2015 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-005A	AMW-21	3/17/2015 3:20:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-005A	AMW-21	3/17/2015 3:20:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-005B	AMW-21	3/17/2015 3:20:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-005C	AMW-21	3/17/2015 3:20:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-005D	AMW-21	3/17/2015 3:20:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-005E	AMW-21	3/17/2015 3:20:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-005F	AMW-21	3/17/2015 3:20:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-006A	AMW-15	3/17/2015 3:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-006A	AMW-15	3/17/2015 3:05:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-006B	AMW-15	3/17/2015 3:05:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/23/2015
1503G88-006C	AMW-15	3/17/2015 3:05:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-006D	AMW-15	3/17/2015 3:05:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-006E	AMW-15	3/17/2015 3:05:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-006F	AMW-15	3/17/2015 3:05:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-007A	EB-1	3/17/2015 3:50:00PM	Aqueous	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-008A	EB-2	3/17/2015 3:55:00PM	Aqueous	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-009A	DUP-1	3/17/2015 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-009A	DUP-1	3/17/2015 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/21/2015
1503G88-009A	DUP-1	3/17/2015 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-010A	AMW-16	3/17/2015 4:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-010A	AMW-16	3/17/2015 4:40:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/21/2015
1503G88-010A	AMW-16	3/17/2015 4:40:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-010B	AMW-16	3/17/2015 4:40:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/24/2015
1503G88-010C	AMW-16	3/17/2015 4:40:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-010D	AMW-16	3/17/2015 4:40:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-010E	AMW-16	3/17/2015 4:40:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503G88

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503G88-010F	AMW-16	3/17/2015 4:40:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-011A	AMW-2	3/17/2015 5:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-011A	AMW-2	3/17/2015 5:10:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/21/2015
1503G88-011A	AMW-2	3/17/2015 5:10:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-011B	AMW-2	3/17/2015 5:10:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/24/2015
1503G88-011C	AMW-2	3/17/2015 5:10:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-011D	AMW-2	3/17/2015 5:10:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-011E	AMW-2	3/17/2015 5:10:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-011F	AMW-2	3/17/2015 5:10:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-012A	TRIP BLANK	3/18/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/20/2015
1503G88-013A	DMW-12	3/17/2015 6:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-013A	DMW-12	3/17/2015 6:15:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/21/2015
1503G88-013A	DMW-12	3/17/2015 6:15:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-013B	DMW-12	3/17/2015 6:15:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/24/2015
1503G88-013C	DMW-12	3/17/2015 6:15:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-013D	DMW-12	3/17/2015 6:15:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-013E	DMW-12	3/17/2015 6:15:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-013F	DMW-12	3/17/2015 6:15:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503G88-014A	AMW-1	3/17/2015 6:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00 AM	03/20/2015
1503G88-014A	AMW-1	3/17/2015 6:45:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/21/2015
1503G88-014A	AMW-1	3/17/2015 6:45:00PM	Groundwater	TCL VOLATILE ORGANICS		3/20/2015 8:24:00 AM	03/23/2015
1503G88-014B	AMW-1	3/17/2015 6:45:00PM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00 PM	03/24/2015
1503G88-014C	AMW-1	3/17/2015 6:45:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503G88-014D	AMW-1	3/17/2015 6:45:00PM	Groundwater	Inorganic Anions by IC			03/18/2015
1503G88-014E	AMW-1	3/17/2015 6:45:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503G88-014F	AMW-1	3/17/2015 6:45:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: **204795**

Sample ID: **MB-204795** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: **204795**

Sample ID: **MB-204795** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04775	0	50.00		95.5	70.6	123				
Surr: Dibromofluoromethane	0.05629	0	50.00		113	78.7	124				
Surr: Toluene-d8	0.05067	0	50.00		101	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: 204795

Sample ID: **LCS-204795** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05956	0.005	50.00		119	64.2	137				
Benzene	0.05338	0.005	50.00		107	72.8	128				
Chlorobenzene	0.05255	0.005	50.00		105	72.3	126				
Toluene	0.05427	0.005	50.00		109	74.9	127				
Trichloroethene	0.05607	0.005	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	0.04895	0	50.00		97.9	70.6	123				
Surr: Dibromofluoromethane	0.05330	0	50.00		107	78.7	124				
Surr: Toluene-d8	0.04948	0	50.00		99.0	81.3	120				

Sample ID: **1503G88-001AMS** Client ID: **AMW 20** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120489**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.535	0.25	2500		101	60.5	156				
Benzene	2.451	0.25	2500		98.0	70	135				
Chlorobenzene	2.664	0.25	2500		107	70.5	132				
Toluene	2.545	0.25	2500		102	70.5	137				
Trichloroethene	2.590	0.25	2500		104	71.8	139				
Surr: 4-Bromofluorobenzene	2.396	0	2500		95.9	70.6	123				
Surr: Dibromofluoromethane	2.686	0	2500		107	78.7	124				
Surr: Toluene-d8	2.434	0	2500		97.4	81.3	120				

Sample ID: **1503G88-001AMSD** Client ID: **AMW 20** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120490**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.706	0.25	2500		108	60.5	156	2535	6.54	20	
Benzene	2.684	0.25	2500		107	70	135	2451	9.07	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: **204795**

Sample ID: **1503G88-001AMSD** Client ID: **AMW 20** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288040**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204795** Analysis Date: **03/20/2015** Seq No: **6120490**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2.842	0.25	2500		114	70.5	132	2664	6.45	20	
Toluene	2.758	0.25	2500		110	70.5	137	2545	8.02	20	
Trichloroethene	2.822	0.25	2500		113	71.8	139	2590	8.58	20	
Surr: 4-Bromofluorobenzene	2.353	0	2500		94.1	70.6	123	2396	0	0	
Surr: Dibromofluoromethane	2.694	0	2500		108	78.7	124	2686	0	0	
Surr: Toluene-d8	2.426	0	2500		97.0	81.3	120	2434	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: 204842

Sample ID: **MB-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125504**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	0									
Ethylene	BRL	0									
Methane	BRL	0									

Sample ID: **LCS-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125505**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1108	0	200.0		55.4	41.2	115				
Ethylene	0.07527	0	200.0		37.6	26.5	115				
Methane	0.1203	0	200.0		60.1	45.1	115				

Sample ID: **LCSD-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125506**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1045	0	200.0		52.2	41.2	115	110.8	5.92	20	
Ethylene	0.07156	0	200.0		35.8	26.5	115	75.27	5.05	20	
Methane	0.1137	0	200.0		56.9	45.1	115	120.3	5.62	20	

Sample ID: **1503G88-001BMS** Client ID: **AMW 20** Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1117	0	200.0		55.9	40.5	115				
Ethylene	0.07411	0	200.0		37.1	25.1	115				
Methane	0.1172	0	200.0		58.6	40.4	115				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: **204842**

Sample ID: **1503G88-001BMSD** Client ID: **AMW 20** Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125515**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1129	0	200.0		56.4	40.5	115	111.7	1.01	20	
Ethylene	0.07603	0	200.0		38.0	25.1	115	74.11	2.55	20	
Methane	0.1213	0	200.0		60.7	40.4	115	117.2	3.48	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: 204870

Sample ID: **MB-204870** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122031**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04380	0	50.00		87.6	70.6	123				
Surr: Dibromofluoromethane	0.05440	0	50.00		109	78	126				
Surr: Toluene-d8	0.04985	0	50.00		99.7	77.1	119				

Sample ID: **LCS-204870** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.007900	0.0050	10.00		79.0	67	135				
Surr: 4-Bromofluorobenzene	0.04343	0	50.00		86.9	70.6	123				
Surr: Dibromofluoromethane	0.05288	0	50.00		106	78	126				
Surr: Toluene-d8	0.05029	0	50.00		101	77.1	119				

Sample ID: **1503G88-004AMS** Client ID: **AMW-14** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.008690	0.0050	10.00		86.9	47.8	133				
Surr: 4-Bromofluorobenzene	0.04279	0	50.00		85.6	70.6	123				
Surr: Dibromofluoromethane	0.05426	0	50.00		109	78	126				
Surr: Toluene-d8	0.05057	0	50.00		101	77.1	119				

Sample ID: **1503G88-004AMSD** Client ID: **AMW-14** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.009200	0.0050	10.00		92.0	47.8	133	8.690	5.70	37.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: **204870**

Sample ID: **1503G88-004AMSD** Client ID: **AMW-14** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.04206	0	50.00		84.1	70.6	123	42.79	0	0	
Surr: Dibromofluoromethane	0.05419	0	50.00		108	78	126	54.26	0	0	
Surr: Toluene-d8	0.05072	0	50.00		101	77.1	119	50.57	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: R288112

Sample ID: **MB-R288112** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120452**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R288112** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.28	1.00	25.00		97.1	90	110				

Sample ID: **1503G19-001DMS** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	32.62	1.00	25.00	4.949	111	80	120				

Sample ID: **1503G19-001DMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	31.84	1.00	25.00	4.949	108	80	120	32.62	2.42	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: R288184

Sample ID: **MB-R288184** Client ID: Units: **mg/L** Prep Date: Run No: **288184**
SampleType: **MBLK** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288184** Analysis Date: **03/18/2015** Seq No: **6121934**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.00									
Nitrogen, Nitrate (As N)	BRL	0.250									
Sulfate	BRL	1.00									

Sample ID: **LCS-R288184** Client ID: Units: **mg/L** Prep Date: Run No: **288184**
SampleType: **LCS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288184** Analysis Date: **03/18/2015** Seq No: **6121932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.506	1.00	10.00		95.1	90	110				
Nitrogen, Nitrate (As N)	4.691	0.250	5.000		93.8	90	110				
Sulfate	24.14	1.00	25.00		96.6	90	110				

Sample ID: **1503G88-001DMS** Client ID: **AMW 20** Units: **mg/L** Prep Date: Run No: **288184**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288184** Analysis Date: **03/18/2015** Seq No: **6121952**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.25	1.00	10.00	1.157	90.9	90	110				
Nitrogen, Nitrate (As N)	4.600	0.250	5.000		92.0	90	110				
Sulfate	24.00	1.00	25.00	1.255	91.0	90	110				

Sample ID: **1503G88-003DMS** Client ID: **OBG-W5** Units: **mg/L** Prep Date: Run No: **288184**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288184** Analysis Date: **03/18/2015** Seq No: **6121955**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.62	1.00	10.00	3.308	93.2	90	110				
Nitrogen, Nitrate (As N)	5.125	0.250	5.000	0.3770	95.0	90	110				
Sulfate	26.52	1.00	25.00	4.365	88.6	90	110				S

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 11-Aug-15

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: R288184

Sample ID: **1503G88-001DMSD** Client ID: **AMW 20** Units: **mg/L** Prep Date: Run No: **288184**
SampleType: **MSD** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288184** Analysis Date: **03/18/2015** Seq No: **6121954**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.28	1.00	10.00	1.157	91.2	90	110	10.25	0.292	20	
Nitrogen, Nitrate (As N)	4.625	0.250	5.000		92.5	90	110	4.600	0.538	20	
Sulfate	24.73	1.00	25.00	1.255	93.9	90	110	24.00	2.97	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: R288263

Sample ID: **MB-R288263** Client ID: Units: **mg/L** Prep Date: Run No: **288263**
SampleType: **MBLK** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288263** Analysis Date: **03/24/2015** Seq No: **6124004**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	1.00									

Sample ID: **LCS-R288263** Client ID: Units: **mg/L** Prep Date: Run No: **288263**
SampleType: **LCS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288263** Analysis Date: **03/24/2015** Seq No: **6124005**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	400.0	1.00	400.0		100	90	110				

Sample ID: **1503G88-001EMS** Client ID: **AMW 20** Units: **mg/L** Prep Date: Run No: **288263**
SampleType: **MS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288263** Analysis Date: **03/24/2015** Seq No: **6124019**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	23.20	1.00	20.00		116	80	120				

Sample ID: **1503G88-001EMSD** Client ID: **AMW 20** Units: **mg/L** Prep Date: Run No: **288263**
SampleType: **MSD** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288263** Analysis Date: **03/24/2015** Seq No: **6124020**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	23.00	1.00	20.00		115	80	120	23.20	0.866	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503G88

ANALYTICAL QC SUMMARY REPORT

BatchID: R288371

Sample ID: **MB-R288371** Client ID: Units: **mg/L** Prep Date: Run No: **288371**
SampleType: **MBLK** TestCode: **Alkalinity by SM2320B** BatchID: **R288371** Analysis Date: **03/24/2015** Seq No: **6126727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R288371** Client ID: Units: **mg/L** Prep Date: Run No: **288371**
SampleType: **LCS** TestCode: **Alkalinity by SM2320B** BatchID: **R288371** Analysis Date: **03/24/2015** Seq No: **6126728**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	124.0	3.00	125.0		99.2	75	125				

Sample ID: **1503G58-001GDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288371**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288371** Analysis Date: **03/24/2015** Seq No: **6126749**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	17.00	3.00						17.00	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 12, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC Dalton

Dear Kristen Rivera: Order No: 1503I16

Analytical Environmental Services, Inc. received 9 samples on 3/19/2015 1:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/12/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1503I16

Date: 3/18/15 Page 1 of 1

COMPANY: EarthCon Consultants, Inc
ADDRESS: 1880 West Oak Pkwy Bld 100 Ste 106 Marietta, GA 30062
PHONE: 770-973-2100
FAX: 770-973-7395
SAMPLED BY: Thomas M. Kahn / Kevin Henry
SIGNATURE:

ANALYSIS REQUESTED: VOCs; MNA Gases; 1,4-Dioxane; Alkalinity; TOC; Sulfide; TDS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (H+I)	MNA Gases (H+I)	1,4-Dioxane (H+I)	Alkalinity (I)	TOC (S+I)	Sulfide (O)	TDS (I)	REMARKS	No # of Containers
1	ARW-1	3/18/15	1005	X		GW	2	2	2	1	1	1	1		10
2	AMW-8	3/18/15	1035	X		GW	2	2	2	1	1	1	1		10
3	AMW-3	3/18/15	1050	X		GW	2	2	2	1	1	1	1		10
4	MW-13	3/18/15	1250	X		GW	2	2	2	1	1	1	1		10
5	AMW-11D	3/18/15	13:20	X		GW	2	2	2	1	1	1	1		10
6	AMW-10	3/18/15	14:30	X		GW	2	2	2	1	1	1	1		10
7	~~MW-23 KMA~~	~~3/18/15~~	~~710~~	~~X~~		~~GW~~	~~2~~	~~2~~	~~2~~	~~1~~	~~1~~	~~1~~	~~1~~	~~KMA~~	~~10~~
8	TRIP BLANK	—	—	—		W	2								2
9	~~AMW 22-D~~	~~3/18/15~~	~~TM~~												0
10	EB-3	3/18/15	19:20	X		W	2								2
11	ARW-2	3/18/15	19:40	X		GW	2	2	2	1	1	1	1		10
12															
13															
14															

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	20:00 ~~19:50~~ 3/18/15	1:	~~19:50~~ 20:00 3/18/15
2:	3/19/15 7:30	2: I. McKinney	3/19/15 0730
3:	3/19/15 0900	3:	3-19-15 1215

SPECIAL ~~INSTRUCTIONS/COMMENTS~~: 3-19-15 1320 Hanna Pacurar
See QAPP

SHIPPED METHOD: 3/19/15 ~~1250~~ 1320
OUT / / VIA:
IN 3/19/15 VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: AMC Dalton
PROJECT #: 02.20140392.00
SITE ADDRESS: Dalton, GA
SEND REPORT TO: Kristen Rivera
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers (TM) 64
Turnaround Time Request 79
☒ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other
STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC Dalton
Lab ID: 1503I16

Case Narrative

For sample 1503I16-004, the sample ID on the sample containers was "AMW-13" and the ID on the Chain of Custody (COC) was "MW-13". The collection date and time listed on the COC matched the date and time listed on the containers. The samples were identified based on the matching collection date and time and logged in according to the COC.

TOC Analysis by Method SM5310B:

Due to sample matrix, samples 1503I16-001, -002 and -004 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1503I16-001, -003, -004 and -006 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Revision:

Per Kristen Rivera via email 8/6/2015, the sample ID for sample 1503I16-004 was updated to "AMW-13". Further the TCL list was reported for VOCs for all samples and all results were reported in mg/L.

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW-1
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:05:00 AM
Lab ID:	1503I16-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 16:05	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
2-Butanone	BRL	2.5		mg/L	204913	50	03/24/2015 05:24	NP
2-Hexanone	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
Acetone	BRL	2.5		mg/L	204913	50	03/24/2015 05:24	NP
Benzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Bromodichloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Bromoform	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Bromomethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Carbon disulfide	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Carbon tetrachloride	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Chlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Chloroethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
Chloroform	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Chloromethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
cis-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Cyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Dibromochloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
Ethylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Freon-113	BRL	0.50		mg/L	204913	50	03/24/2015 05:24	NP
Isopropylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
m,p-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Methyl acetate	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW-1
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:05:00 AM
Lab ID:	1503I16-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Methylene chloride	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
o-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Styrene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Tetrachloroethene	42	2.5		mg/L	204913	500	03/25/2015 03:21	TH
Toluene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Trichloroethene	0.56	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:24	NP
Vinyl chloride	BRL	0.10		mg/L	204913	50	03/24/2015 05:24	NP
Surr: 4-Bromofluorobenzene	94.6	70.6-123		%REC	204913	50	03/24/2015 05:24	NP
Surr: 4-Bromofluorobenzene	86.6	70.6-123		%REC	204913	500	03/25/2015 03:21	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	50	03/24/2015 05:24	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	500	03/25/2015 03:21	TH
Surr: Toluene-d8	101	81.3-120		%REC	204913	50	03/24/2015 05:24	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	204913	500	03/25/2015 03:21	TH
Sulfide by SM4500-S2-F								
Sulfide	1.00	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	5.22	1.00		mg/L	R288278	1	03/19/2015 21:47	JW
Nitrogen, Nitrate (As N)	0.372	0.250		mg/L	R288278	1	03/19/2015 21:47	JW
Sulfate	7.99	1.00		mg/L	R288278	1	03/19/2015 21:47	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 13:52	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 13:52	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 13:52	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	174	3.00		mg/L	R288370	1	03/24/2015 15:56	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 17:20	NP
Surr: 4-Bromofluorobenzene	85.9	70.6-123		%REC	204870	1	03/20/2015 17:20	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 17:20	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 17:20	NP

Qualifiers:

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H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-8
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:35:00 AM
Lab ID:	1503I16-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 16:17	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 08:57	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
Acetone	BRL	0.050		mg/L	204913	1	03/24/2015 08:57	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 08:57	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP

Qualifiers:

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BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-8
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:35:00 AM
Lab ID:	1503I16-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Tetrachloroethene	7.9	0.25		mg/L	204913	50	03/24/2015 00:40	NP
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Trichloroethene	0.021	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 08:57	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/24/2015 08:57	NP
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	204913	1	03/24/2015 08:57	NP
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	204913	50	03/24/2015 00:40	NP
Surr: Dibromofluoromethane	122	78.7-124		%REC	204913	1	03/24/2015 08:57	NP
Surr: Dibromofluoromethane	117	78.7-124		%REC	204913	50	03/24/2015 00:40	NP
Surr: Toluene-d8	102	81.3-120		%REC	204913	1	03/24/2015 08:57	NP
Surr: Toluene-d8	98	81.3-120		%REC	204913	50	03/24/2015 00:40	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	1.72	1.00		mg/L	R288278	1	03/19/2015 22:03	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288278	1	03/19/2015 22:03	JW
Sulfate	1.72	1.00		mg/L	R288278	1	03/19/2015 22:03	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204842	1	03/24/2015 13:46	JM
Ethylene	BRL	0		mg/L	204842	1	03/24/2015 13:46	JM
Methane	BRL	0		mg/L	204842	1	03/24/2015 13:46	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	134	3.00		mg/L	R288370	1	03/24/2015 15:56	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 17:46	NP
Surr: 4-Bromofluorobenzene	86.5	70.6-123		%REC	204870	1	03/20/2015 17:46	NP
Surr: Dibromofluoromethane	110	78-126		%REC	204870	1	03/20/2015 17:46	NP
Surr: Toluene-d8	102	77.1-119		%REC	204870	1	03/20/2015 17:46	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-3
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:50:00 AM
Lab ID:	1503I16-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 16:41	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
2-Butanone	BRL	2.5		mg/L	204913	50	03/24/2015 05:48	NP
2-Hexanone	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
Acetone	BRL	2.5		mg/L	204913	50	03/24/2015 05:48	NP
Benzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Bromodichloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Bromoform	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Bromomethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Carbon disulfide	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Carbon tetrachloride	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Chlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Chloroethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
Chloroform	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Chloromethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
cis-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Cyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Dibromochloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
Ethylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Freon-113	BRL	0.50		mg/L	204913	50	03/24/2015 05:48	NP
Isopropylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
m,p-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Methyl acetate	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-3
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 10:50:00 AM
Lab ID:	1503I16-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Methylene chloride	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
o-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Styrene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Tetrachloroethene	13	0.50		mg/L	204913	100	03/25/2015 04:34	TH
Toluene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Trichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204913	50	03/24/2015 05:48	NP
Vinyl chloride	BRL	0.10		mg/L	204913	50	03/24/2015 05:48	NP
Surr: 4-Bromofluorobenzene	95.6	70.6-123		%REC	204913	50	03/24/2015 05:48	NP
Surr: 4-Bromofluorobenzene	85.8	70.6-123		%REC	204913	100	03/25/2015 04:34	TH
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	50	03/24/2015 05:48	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	204913	100	03/25/2015 04:34	TH
Surr: Toluene-d8	99.9	81.3-120		%REC	204913	50	03/24/2015 05:48	NP
Surr: Toluene-d8	94.8	81.3-120		%REC	204913	100	03/25/2015 04:34	TH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	110	10.0		mg/L	R288278	10	03/20/2015 09:34	JW
Nitrogen, Nitrate (As N)	4.31	0.250		mg/L	R288278	1	03/19/2015 22:18	JW
Sulfate	1.31	1.00		mg/L	R288278	1	03/19/2015 22:18	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 14:26	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 14:26	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 14:26	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	5.00	3.00		mg/L	R288370	1	03/24/2015 15:56	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 18:13	NP
Surr: 4-Bromofluorobenzene	85.1	70.6-123		%REC	204870	1	03/20/2015 18:13	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 18:13	NP
Surr: Toluene-d8	102	77.1-119		%REC	204870	1	03/20/2015 18:13	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-13
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 12:50:00 PM
Lab ID:	1503I16-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288112	5	03/20/2015 16:55	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,1,2,2-Tetrachloroethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,1,2-Trichloroethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,1-Dichloroethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,1-Dichloroethene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2,4-Trichlorobenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2-Dibromo-3-chloropropane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2-Dibromoethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2-Dichlorobenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2-Dichloroethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,2-Dichloropropane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,3-Dichlorobenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
1,4-Dichlorobenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
2-Butanone	BRL	0.50		mg/L	204913	10	03/24/2015 08:33	NP
2-Hexanone	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
4-Methyl-2-pentanone	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
Acetone	BRL	0.50		mg/L	204913	10	03/24/2015 08:33	NP
Benzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Bromodichloromethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Bromoform	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Bromomethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Carbon disulfide	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Carbon tetrachloride	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Chlorobenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Chloroethane	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
Chloroform	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Chloromethane	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
cis-1,2-Dichloroethene	1.2	0.050		mg/L	204913	10	03/24/2015 08:33	NP
cis-1,3-Dichloropropene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Cyclohexane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Dibromochloromethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Dichlorodifluoromethane	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
Ethylbenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Freon-113	BRL	0.10		mg/L	204913	10	03/24/2015 08:33	NP
Isopropylbenzene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
m,p-Xylene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Methyl acetate	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Methyl tert-butyl ether	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-13
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 12:50:00 PM
Lab ID:	1503I16-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Methylene chloride	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
o-Xylene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Styrene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Tetrachloroethene	22	2.5		mg/L	204913	500	03/25/2015 03:46	TH
Toluene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
trans-1,2-Dichloroethene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
trans-1,3-Dichloropropene	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Trichloroethene	0.78	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Trichlorofluoromethane	BRL	0.050		mg/L	204913	10	03/24/2015 08:33	NP
Vinyl chloride	BRL	0.020		mg/L	204913	10	03/24/2015 08:33	NP
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	204913	10	03/24/2015 08:33	NP
Surr: 4-Bromofluorobenzene	87.8	70.6-123		%REC	204913	500	03/25/2015 03:46	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	10	03/24/2015 08:33	NP
Surr: Dibromofluoromethane	117	78.7-124		%REC	204913	500	03/25/2015 03:46	TH
Surr: Toluene-d8	99.8	81.3-120		%REC	204913	10	03/24/2015 08:33	NP
Surr: Toluene-d8	98	81.3-120		%REC	204913	500	03/25/2015 03:46	TH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	95.6	10.0		mg/L	R288278	10	03/20/2015 09:49	JW
Nitrogen, Nitrate (As N)	0.927	0.250		mg/L	R288278	1	03/19/2015 22:33	JW
Sulfate	11.9	1.00		mg/L	R288278	1	03/19/2015 22:33	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 14:31	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 14:31	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 14:31	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	260	30.0		mg/L	R288370	10	03/24/2015 15:56	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 18:40	NP
Surr: 4-Bromofluorobenzene	85.9	70.6-123		%REC	204870	1	03/20/2015 18:40	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 18:40	NP
Surr: Toluene-d8	102	77.1-119		%REC	204870	1	03/20/2015 18:40	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-11D
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 1:20:00 PM
Lab ID:	1503I16-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 17:10	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
2-Butanone	BRL	0.050		mg/L	204913	1	03/25/2015 07:00	TH
2-Hexanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
Acetone	BRL	0.050		mg/L	204913	1	03/25/2015 07:00	TH
Benzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Bromoform	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Bromomethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Chloroethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
Chloroform	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Chloromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Cyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Freon-113	BRL	0.010		mg/L	204913	1	03/25/2015 07:00	TH
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Methyl acetate	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-11D
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 1:20:00 PM
Lab ID:	1503I16-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Methylene chloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
o-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Styrene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Tetrachloroethene	0.022	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Toluene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Trichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:00	TH
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/25/2015 07:00	TH
Surr: 4-Bromofluorobenzene	84.8	70.6-123		%REC	204913	1	03/25/2015 07:00	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	1	03/25/2015 07:00	TH
Surr: Toluene-d8	96.6	81.3-120		%REC	204913	1	03/25/2015 07:00	TH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	2.33	1.00		mg/L	R288278	1	03/19/2015 22:48	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288278	1	03/19/2015 22:48	JW
Sulfate	12.4	1.00		mg/L	R288278	1	03/19/2015 22:48	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 14:37	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 14:37	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 14:37	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	230	30.0		mg/L	R288510	10	03/25/2015 15:57	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 19:06	NP
Surr: 4-Bromofluorobenzene	84.7	70.6-123		%REC	204870	1	03/20/2015 19:06	NP
Surr: Dibromofluoromethane	109	78-126		%REC	204870	1	03/20/2015 19:06	NP
Surr: Toluene-d8	102	77.1-119		%REC	204870	1	03/20/2015 19:06	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-10
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 2:30:00 PM
Lab ID:	1503I16-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 17:28	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
2-Butanone	BRL	2.5		mg/L	204913	50	03/24/2015 06:35	NP
2-Hexanone	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
Acetone	BRL	2.5		mg/L	204913	50	03/24/2015 06:35	NP
Benzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Bromodichloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Bromoform	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Bromomethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Carbon disulfide	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Carbon tetrachloride	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Chlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Chloroethane	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
Chloroform	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Chloromethane	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
cis-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Cyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Dibromochloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
Ethylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Freon-113	BRL	0.50		mg/L	204913	50	03/24/2015 06:35	NP
Isopropylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
m,p-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Methyl acetate	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-10
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 2:30:00 PM
Lab ID:	1503I16-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Methylene chloride	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
o-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Styrene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Tetrachloroethene	13	0.50		mg/L	204913	100	03/25/2015 04:58	TH
Toluene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Trichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204913	50	03/24/2015 06:35	NP
Vinyl chloride	BRL	0.10		mg/L	204913	50	03/24/2015 06:35	NP
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	204913	50	03/24/2015 06:35	NP
Surr: 4-Bromofluorobenzene	84.5	70.6-123		%REC	204913	100	03/25/2015 04:58	TH
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	50	03/24/2015 06:35	NP
Surr: Dibromofluoromethane	122	78.7-124		%REC	204913	100	03/25/2015 04:58	TH
Surr: Toluene-d8	98.1	81.3-120		%REC	204913	50	03/24/2015 06:35	NP
Surr: Toluene-d8	97.6	81.3-120		%REC	204913	100	03/25/2015 04:58	TH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	3.29	1.00		mg/L	R288278	1	03/19/2015 23:03	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288278	1	03/19/2015 23:03	JW
Sulfate	2.33	1.00		mg/L	R288278	1	03/19/2015 23:03	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 14:46	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 14:46	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 14:46	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	170	30.0		mg/L	R288510	10	03/25/2015 15:57	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 19:33	NP
Surr: 4-Bromofluorobenzene	85.5	70.6-123		%REC	204870	1	03/20/2015 19:33	NP
Surr: Dibromofluoromethane	108	78-126		%REC	204870	1	03/20/2015 19:33	NP
Surr: Toluene-d8	100	77.1-119		%REC	204870	1	03/20/2015 19:33	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015
Lab ID:	1503I16-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/23/2015 22:18	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
Acetone	BRL	0.050		mg/L	204913	1	03/23/2015 22:18	NP
Benzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/23/2015 22:18	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015
Lab ID:	1503I16-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Toluene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:18	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/23/2015 22:18	NP
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	204913	1	03/23/2015 22:18	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	1	03/23/2015 22:18	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	204913	1	03/23/2015 22:18	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-3
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 7:20:00 PM
Lab ID:	1503I16-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/23/2015 22:41	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
Acetone	BRL	0.050		mg/L	204913	1	03/23/2015 22:41	NP
Benzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/23/2015 22:41	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	EB-3
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 7:20:00 PM
Lab ID:	1503I16-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Toluene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/23/2015 22:41	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/23/2015 22:41	NP
Surr: 4-Bromofluorobenzene	97.1	70.6-123		%REC	204913	1	03/23/2015 22:41	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	204913	1	03/23/2015 22:41	NP
Surr: Toluene-d8	99.4	81.3-120		%REC	204913	1	03/23/2015 22:41	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW-2
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 7:40:00 PM
Lab ID:	1503I16-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288112	1	03/20/2015 18:23	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.030	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,1-Dichloroethene	0.017	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 01:04	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
Acetone	BRL	0.050		mg/L	204913	1	03/24/2015 01:04	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
cis-1,2-Dichloroethene	0.13	0.005		mg/L	204913	1	03/24/2015 01:04	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 01:04	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ARW-2
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 7:40:00 PM
Lab ID:	1503I16-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Tetrachloroethene	1.6	0.050		mg/L	204913	10	03/24/2015 01:28	NP
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Trichloroethene	0.049	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 01:04	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/24/2015 01:04	NP
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	204913	1	03/24/2015 01:04	NP
Surr: 4-Bromofluorobenzene	94.6	70.6-123		%REC	204913	10	03/24/2015 01:28	NP
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	1	03/24/2015 01:04	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	10	03/24/2015 01:28	NP
Surr: Toluene-d8	101	81.3-120		%REC	204913	1	03/24/2015 01:04	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	204913	10	03/24/2015 01:28	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	8.85	1.00		mg/L	R288278	1	03/19/2015 23:18	JW
Nitrogen, Nitrate (As N)	3.08	0.250		mg/L	R288278	1	03/19/2015 23:18	JW
Sulfate	10.3	1.00		mg/L	R288278	1	03/19/2015 23:18	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 14:51	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 14:51	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 14:51	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	200	30.0		mg/L	R288510	10	03/25/2015 15:57	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204870	1	03/20/2015 19:59	NP
Surr: 4-Bromofluorobenzene	85.9	70.6-123		%REC	204870	1	03/20/2015 19:59	NP
Surr: Dibromofluoromethane	112	78-126		%REC	204870	1	03/20/2015 19:59	NP
Surr: Toluene-d8	101	77.1-119		%REC	204870	1	03/20/2015 19:59	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Co. Work Order Number 1505316

Checklist completed by [signature] 3/19/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.2 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes __ No ✓

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by M.

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503I16

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503I16-001A	ARW-1	3/18/2015 10:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-001A	ARW-1	3/18/2015 10:05:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-001A	ARW-1	3/18/2015 10:05:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/25/2015
1503I16-001B	ARW-1	3/18/2015 10:05:00AM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00PM	03/24/2015
1503I16-001C	ARW-1	3/18/2015 10:05:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-001D	ARW-1	3/18/2015 10:05:00AM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-001E	ARW-1	3/18/2015 10:05:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-001F	ARW-1	3/18/2015 10:05:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503I16-002A	AMW-8	3/18/2015 10:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-002A	AMW-8	3/18/2015 10:35:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-002B	AMW-8	3/18/2015 10:35:00AM	Groundwater	GC Analysis of Gaseous Samples		3/23/2015 12:30:00PM	03/24/2015
1503I16-002C	AMW-8	3/18/2015 10:35:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-002D	AMW-8	3/18/2015 10:35:00AM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-002E	AMW-8	3/18/2015 10:35:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-002F	AMW-8	3/18/2015 10:35:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503I16-003A	AMW-3	3/18/2015 10:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-003A	AMW-3	3/18/2015 10:50:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-003A	AMW-3	3/18/2015 10:50:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/25/2015
1503I16-003B	AMW-3	3/18/2015 10:50:00AM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55AM	03/25/2015
1503I16-003C	AMW-3	3/18/2015 10:50:00AM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-003D	AMW-3	3/18/2015 10:50:00AM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-003D	AMW-3	3/18/2015 10:50:00AM	Groundwater	Inorganic Anions by IC			03/20/2015
1503I16-003E	AMW-3	3/18/2015 10:50:00AM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-003F	AMW-3	3/18/2015 10:50:00AM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503I16-004A	AMW-13	3/18/2015 12:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-004A	AMW-13	3/18/2015 12:50:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-004A	AMW-13	3/18/2015 12:50:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/25/2015
1503I16-004B	AMW-13	3/18/2015 12:50:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55AM	03/25/2015
1503I16-004C	AMW-13	3/18/2015 12:50:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503I16

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503I16-004D	AMW-13	3/18/2015 12:50:00PM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-004D	AMW-13	3/18/2015 12:50:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503I16-004E	AMW-13	3/18/2015 12:50:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-004F	AMW-13	3/18/2015 12:50:00PM	Groundwater	Alkalinity by SM2320B			03/24/2015
1503I16-005A	AMW-11D	3/18/2015 1:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-005A	AMW-11D	3/18/2015 1:20:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/25/2015
1503I16-005B	AMW-11D	3/18/2015 1:20:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55AM	03/25/2015
1503I16-005C	AMW-11D	3/18/2015 1:20:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-005D	AMW-11D	3/18/2015 1:20:00PM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-005E	AMW-11D	3/18/2015 1:20:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-005F	AMW-11D	3/18/2015 1:20:00PM	Groundwater	Alkalinity by SM2320B			03/25/2015
1503I16-006A	AMW-10	3/18/2015 2:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-006A	AMW-10	3/18/2015 2:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-006A	AMW-10	3/18/2015 2:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/25/2015
1503I16-006B	AMW-10	3/18/2015 2:30:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55AM	03/25/2015
1503I16-006C	AMW-10	3/18/2015 2:30:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-006D	AMW-10	3/18/2015 2:30:00PM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-006E	AMW-10	3/18/2015 2:30:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-006F	AMW-10	3/18/2015 2:30:00PM	Groundwater	Alkalinity by SM2320B			03/25/2015
1503I16-007A	TRIP BLANK	3/19/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/23/2015
1503I16-008A	EB-3	3/18/2015 7:20:00PM	Aqueous	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/23/2015
1503I16-009A	ARW-2	3/18/2015 7:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/20/2015 10:35:00AM	03/20/2015
1503I16-009A	ARW-2	3/18/2015 7:40:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00PM	03/24/2015
1503I16-009B	ARW-2	3/18/2015 7:40:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55AM	03/25/2015
1503I16-009C	ARW-2	3/18/2015 7:40:00PM	Groundwater	Total Organic Carbon by SM5310B			03/20/2015
1503I16-009D	ARW-2	3/18/2015 7:40:00PM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I16-009E	ARW-2	3/18/2015 7:40:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I16-009F	ARW-2	3/18/2015 7:40:00PM	Groundwater	Alkalinity by SM2320B			03/25/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204842**

Sample ID: **MB-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125504**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	0									
Ethylene	BRL	0									
Methane	BRL	0									

Sample ID: **LCS-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125505**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1108	0	200.0		55.4	41.2	115				
Ethylene	0.07527	0	200.0		37.6	26.5	115				
Methane	0.1203	0	200.0		60.1	45.1	115				

Sample ID: **LCSD-204842** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125506**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1045	0	200.0		52.2	41.2	115	110.8	5.92	20	
Ethylene	0.07156	0	200.0		35.8	26.5	115	75.27	5.05	20	
Methane	0.1137	0	200.0		56.9	45.1	115	120.3	5.62	20	

Sample ID: **1503G88-001BMS** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1117	0	200.0		55.9	40.5	115				
Ethylene	0.07411	0	200.0		37.1	25.1	115				
Methane	0.1172	0	200.0		58.6	40.4	115				

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204842**

Sample ID: **1503G88-001BMSD** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288323**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204842** Analysis Date: **03/23/2015** Seq No: **6125515**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1129	0	200.0		56.4	40.5	115	111.7	1.01	20	
Ethylene	0.07603	0	200.0		38.0	25.1	115	74.11	2.55	20	
Methane	0.1213	0	200.0		60.7	40.4	115	117.2	3.48	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: 204870

Sample ID: **MB-204870** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122031**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04380	0	50.00		87.6	70.6	123				
Surr: Dibromofluoromethane	0.05440	0	50.00		109	78	126				
Surr: Toluene-d8	0.04985	0	50.00		99.7	77.1	119				

Sample ID: **LCS-204870** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.007900	0.0050	10.00		79.0	67	135				
Surr: 4-Bromofluorobenzene	0.04343	0	50.00		86.9	70.6	123				
Surr: Dibromofluoromethane	0.05288	0	50.00		106	78	126				
Surr: Toluene-d8	0.05029	0	50.00		101	77.1	119				

Sample ID: **1503G88-004AMS** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.008690	0.0050	10.00		86.9	47.8	133				
Surr: 4-Bromofluorobenzene	0.04279	0	50.00		85.6	70.6	123				
Surr: Dibromofluoromethane	0.05426	0	50.00		109	78	126				
Surr: Toluene-d8	0.05057	0	50.00		101	77.1	119				

Sample ID: **1503G88-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.009200	0.0050	10.00		92.0	47.8	133	8.690	5.70	37.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204870**

Sample ID: **1503G88-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288186**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204870** Analysis Date: **03/20/2015** Seq No: **6122044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.04206	0	50.00		84.1	70.6	123	42.79	0	0	
Surr: Dibromofluoromethane	0.05419	0	50.00		108	78	126	54.26	0	0	
Surr: Toluene-d8	0.05072	0	50.00		101	77.1	119	50.57	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: 204913

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04705	0	50.00		94.1	70.6	123				
Surr: Dibromofluoromethane	0.05850	0	50.00		117	78.7	124				
Surr: Toluene-d8	0.05039	0	50.00		101	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: 204913

Sample ID: **LCS-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04764	0.005	50.00		95.3	64.2	137				
Benzene	0.04647	0.005	50.00		92.9	72.8	128				
Chlorobenzene	0.05008	0.005	50.00		100	72.3	126				
Toluene	0.04828	0.005	50.00		96.6	74.9	127				
Trichloroethene	0.04789	0.005	50.00		95.8	70.5	134				
Surr: 4-Bromofluorobenzene	0.04892	0	50.00		97.8	70.6	123				
Surr: Dibromofluoromethane	0.05591	0	50.00		112	78.7	124				
Surr: Toluene-d8	0.04747	0	50.00		94.9	81.3	120				

Sample ID: **1503I16-004AMS** Client ID: **AMW-13** Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123880**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.675	0.50	5000		93.5	60.5	156				
Benzene	4.693	0.50	5000		93.9	70	135				
Chlorobenzene	5.062	0.50	5000		101	70.5	132				
Toluene	5.014	0.50	5000		100	70.5	137				
Trichloroethene	5.707	0.50	5000	759.0	99.0	71.8	139				
Surr: 4-Bromofluorobenzene	4.757	0	5000		95.1	70.6	123				
Surr: Dibromofluoromethane	5.825	0	5000		116	78.7	124				
Surr: Toluene-d8	4.944	0	5000		98.9	81.3	120				

Sample ID: **1503I16-004AMSD** Client ID: **AMW-13** Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.721	0.50	5000		94.4	60.5	156	4675	0.979	20	
Benzene	4.705	0.50	5000		94.1	70	135	4693	0.255	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **1503I16-004AMSD** Client ID: **AMW-13** Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	4.968	0.50	5000		99.4	70.5	132	5062	1.87	20	
Toluene	4.901	0.50	5000		98.0	70.5	137	5014	2.28	20	
Trichloroethene	5.742	0.50	5000	759.0	99.7	71.8	139	5707	0.611	20	
Surr: 4-Bromofluorobenzene	4.728	0	5000		94.6	70.6	123	4757	0	0	
Surr: Dibromofluoromethane	5.819	0	5000		116	78.7	124	5825	0	0	
Surr: Toluene-d8	4.999	0	5000		100.0	81.3	120	4944	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: 204965

Sample ID: **MB-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129927**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	0									
Ethylene	BRL	0									
Methane	BRL	0									

Sample ID: **LCS-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129928**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1156	0	200.0		57.8	41.2	115				
Ethylene	0.07550	0	200.0		37.8	26.5	115				
Methane	0.1256	0	200.0		62.8	45.1	115				

Sample ID: **LCSD-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129929**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1067	0	200.0		53.4	41.2	115	115.6	7.97	20	
Ethylene	0.07016	0	200.0		35.1	26.5	115	75.50	7.34	20	
Methane	0.1164	0	200.0		58.2	45.1	115	125.6	7.58	20	

Sample ID: **1503I26-001BMS** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130209**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1051	0	200.0		52.6	40.5	115				
Ethylene	0.09207	0	200.0		46.0	25.1	115				
Methane	0.09701	0	200.0		48.5	40.4	115				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: **204965**

Sample ID: **1503I26-001BMSD** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1277	0	200.0		63.9	40.5	115	105.1	19.4	20	
Ethylene	0.08514	0	200.0		42.6	25.1	115	92.07	7.83	20	
Methane	0.1339	0	200.0		67.0	40.4	115	97.01	32.0	20	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: R288112

Sample ID: **MB-R288112** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120452**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R288112** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.28	1.00	25.00		97.1	90	110				

Sample ID: **1503G19-001DMS** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	32.62	1.00	25.00	4.949	111	80	120				

Sample ID: **1503G19-001DMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288112**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288112** Analysis Date: **03/20/2015** Seq No: **6120484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	31.84	1.00	25.00	4.949	108	80	120	32.62	2.42	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: R288278

Sample ID: **MB-R288278** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MBLK** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/19/2015** Seq No: **6124252**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.00									
Nitrogen, Nitrate (As N)	BRL	0.250									
Sulfate	BRL	1.00									

Sample ID: **LCS-R288278** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **LCS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/19/2015** Seq No: **6124251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	4.629	1.00	5.000		92.6	90	110				
Nitrogen, Nitrate (As N)	4.949	0.250	5.000		99.0	90	110				
Sulfate	22.90	1.00	25.00		91.6	90	110				

Sample ID: **1503I16-001DMS** Client ID: **ARW-1** Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/20/2015** Seq No: **6124265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.822	1.00	5.000	5.220	92.0	90	110				
Nitrogen, Nitrate (As N)	5.317	0.250	5.000	0.3723	98.9	90	110				
Sulfate	31.74	1.00	25.00	7.994	95.0	90	110				

Sample ID: **1503I16-001DMSD** Client ID: **ARW-1** Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MSD** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/20/2015** Seq No: **6124266**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.854	1.00	5.000	5.220	92.7	90	110	9.822	0.326	20	
Nitrogen, Nitrate (As N)	5.333	0.250	5.000	0.3723	99.2	90	110	5.317	0.302	20	
Sulfate	31.58	1.00	25.00	7.994	94.3	90	110	31.74	0.529	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: R288370

Sample ID: **MB-R288370** Client ID: Units: **mg/L** Prep Date: Run No: **288370**
SampleType: **MBLK** TestCode: **Alkalinity by SM2320B** BatchID: **R288370** Analysis Date: **03/24/2015** Seq No: **6126714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R288370** Client ID: Units: **mg/L** Prep Date: Run No: **288370**
SampleType: **LCS** TestCode: **Alkalinity by SM2320B** BatchID: **R288370** Analysis Date: **03/24/2015** Seq No: **6126715**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	124.0	3.00	125.0		99.2	75	125				

Sample ID: **1503H32-004GDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288370**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288370** Analysis Date: **03/24/2015** Seq No: **6126721**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	26.00	3.00						26.00	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: R288502

Sample ID: **MB-R288502** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MBLK** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129757**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	1.00									

Sample ID: **LCS-R288502** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **LCS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129758**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	360.0	1.00	360.0		100	90	110				

Sample ID: **1503I16-001EMS** Client ID: **ARW-1** Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129769**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	20.80	1.00	18.00	1.000	110	80	120				

Sample ID: **1503I16-001EMSD** Client ID: **ARW-1** Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MSD** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129770**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	20.60	1.00	18.00	1.000	109	80	120	20.80	0.966	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I16

ANALYTICAL QC SUMMARY REPORT

BatchID: R288510

Sample ID: **MB-R288510** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **MBLK** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130033**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R288510** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **LCS** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130034**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	123.0	3.00	125.0		98.4	75	125				

Sample ID: **1503I16-005FDUP** Client ID: **AMW-11D** Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130032**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	230.0	30.0						230.0	0	30	

Sample ID: **1503I26-001GDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6131112**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	9.000	3.00						9.000	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 12, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC Dalton

Dear Kristen Rivera: Order No: 1503I19

Analytical Environmental Services, Inc. received 2 samples on 3/19/2015 1:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/12/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1503L19

Date: 3-18-15 Page 1 of 1

COMPANY: EARTH CONSULTANTS INC

ADDRESS: 1880 West Oak Pkwy BLD 100 STE 106 MARIETTA GA 30062

PHONE: 770-973-2100

FAX: 770-973-7395

SAMPLED BY: THOMAS M. KEUER / Keaton Henry

SIGNATURE:

ANALYSIS REQUESTED: VOCs, 1,4 Dioxane, MNA Gases, Alk, TOC, Sulfide, TDS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs (H+I)	1,4 Dioxane (H+I)	MNA Gases (H+I)	Alk (I)	TOC (S+I)	Sulfide (NaOH+Zn Ac+I)	TDS (I)	REMARKS	No # of Containers
1	OBG-WL	3-18-15	17:30	G		GW	2	2	2	1	1	1	1		10
2	MW 22-10	3-18-15	18:30	G		GW	2	2	2	1	1	1	1		10
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	3-18-15 18:30	1:	3-18-15 19:30
2:	3/19/15 7:35	2:	3/19/15 0730
3:	3/19/15 0900	3:	3-19-15 1215

SPECIAL INSTRUCTIONS/COMMENTS: 3-19-15 1320 SEE QAPP

SHIPMENT METHOD: 3/19/15 1320
OUT / / VIA:
IN 3/19/15 VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: AMC DALTON
PROJECT #: 02-26140392.00
SITE ADDRESS: Dalton, GA
SEND REPORT TO: KRISTON RIVERA
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers 20

Turnaround Time Request
- ☒ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☐ Next Business Day Rush
- ☐ Same Day Rush (auth req.)
- ☐ Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC Dalton
Lab ID: 1503I19

Case Narrative

Revision:

Per Kristen Rivera via email 8/6/2015, results were reported in mg/L.

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-WI
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 5:30:00 PM
Lab ID:	1503I19-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.43	1.00		mg/L	R288407	1	03/24/2015 17:26	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	1.1	0.25		mg/L	204913	50	03/24/2015 06:59	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,1-Dichloroethane	0.005	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,1-Dichloroethene	0.31	0.25		mg/L	204913	50	03/24/2015 06:59	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
2-Butanone	BRL	0.050		mg/L	204913	1	03/25/2015 13:43	TH
2-Hexanone	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
Acetone	BRL	0.050		mg/L	204913	1	03/25/2015 13:43	TH
Benzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Bromoform	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Bromomethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Chloroethane	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
Chloroform	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Chloromethane	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Cyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Freon-113	BRL	0.010		mg/L	204913	1	03/25/2015 13:43	TH
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Methyl acetate	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-WI
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 5:30:00 PM
Lab ID:	1503I19-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Methylene chloride	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
o-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Styrene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Toluene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Trichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/25/2015 13:43	TH
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/25/2015 13:43	TH
Surr: 4-Bromofluorobenzene	86.1	70.6-123		%REC	204913	1	03/25/2015 13:43	TH
Surr: 4-Bromofluorobenzene	95.6	70.6-123		%REC	204913	50	03/24/2015 06:59	NP
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	1	03/25/2015 13:43	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	50	03/24/2015 06:59	NP
Surr: Toluene-d8	94.5	81.3-120		%REC	204913	1	03/25/2015 13:43	TH
Surr: Toluene-d8	101	81.3-120		%REC	204913	50	03/24/2015 06:59	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	5.13	1.00		mg/L	R288278	1	03/19/2015 23:48	JW
Nitrogen, Nitrate (As N)	1.46	0.250		mg/L	R288278	1	03/19/2015 23:48	JW
Sulfate	3.61	1.00		mg/L	R288278	1	03/19/2015 23:48	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 16:41	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 16:41	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 16:41	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	56.0	3.00		mg/L	R288510	1	03/25/2015 15:57	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204958	1	03/24/2015 13:55	NP
Surr: 4-Bromofluorobenzene	99.3	70.6-123		%REC	204958	1	03/24/2015 13:55	NP
Surr: Dibromofluoromethane	103	78-126		%REC	204958	1	03/24/2015 13:55	NP
Surr: Toluene-d8	100	77.1-119		%REC	204958	1	03/24/2015 13:55	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	MW 22-D
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 6:30:00 PM
Lab ID:	1503I19-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288407	1	03/24/2015 17:43	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.29	0.050		mg/L	204913	10	03/25/2015 06:12	TH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,1-Dichloroethane	0.011	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,1-Dichloroethene	0.14	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 04:13	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
Acetone	BRL	0.050		mg/L	204913	1	03/24/2015 04:13	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 04:13	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	MW 22-D
Project Name:	AMC Dalton	**Collection Date:**	3/18/2015 6:30:00 PM
Lab ID:	1503I19-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:13	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/24/2015 04:13	NP
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	204913	1	03/24/2015 04:13	NP
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	204913	10	03/25/2015 06:12	TH
Surr: Dibromofluoromethane	121	78.7-124		%REC	204913	1	03/24/2015 04:13	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	10	03/25/2015 06:12	TH
Surr: Toluene-d8	101	81.3-120		%REC	204913	1	03/24/2015 04:13	NP
Surr: Toluene-d8	95.1	81.3-120		%REC	204913	10	03/25/2015 06:12	TH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288502	1	03/24/2015 16:45	PF
Inorganic Anions by IC E300.0								
Chloride	13.0	1.00		mg/L	R288278	1	03/20/2015 00:03	JW
Nitrogen, Nitrate (As N)	0.900	0.250		mg/L	R288278	1	03/20/2015 00:03	JW
Sulfate	12.1	1.00		mg/L	R288278	1	03/20/2015 00:03	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 16:45	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 16:45	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 16:45	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	270	30.0		mg/L	R288510	10	03/25/2015 15:57	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	0.0050		mg/L	204958	1	03/24/2015 14:22	NP
Surr: 4-Bromofluorobenzene	99.8	70.6-123		%REC	204958	1	03/24/2015 14:22	NP
Surr: Dibromofluoromethane	104	78-126		%REC	204958	1	03/24/2015 14:22	NP
Surr: Toluene-d8	99.8	77.1-119		%REC	204958	1	03/24/2015 14:22	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con Consultants, Inc Work Order Number 1503I19

Checklist completed by Joana Pacuar 3/19/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __ not was 3/16/15

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3/° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by JP

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 31-Mar-15

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503I19

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503I19-001A	OBG-WI	3/18/2015 5:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503I19-001A	OBG-WI	3/18/2015 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503I19-001A	OBG-WI	3/18/2015 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503I19-001B	OBG-WI	3/18/2015 5:30:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503I19-001C	OBG-WI	3/18/2015 5:30:00PM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503I19-001D	OBG-WI	3/18/2015 5:30:00PM	Groundwater	Inorganic Anions by IC			03/19/2015
1503I19-001E	OBG-WI	3/18/2015 5:30:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I19-001F	OBG-WI	3/18/2015 5:30:00PM	Groundwater	Alkalinity by SM2320B			03/25/2015
1503I19-002A	MW 22-D	3/18/2015 6:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503I19-002A	MW 22-D	3/18/2015 6:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503I19-002A	MW 22-D	3/18/2015 6:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503I19-002B	MW 22-D	3/18/2015 6:30:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503I19-002C	MW 22-D	3/18/2015 6:30:00PM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503I19-002D	MW 22-D	3/18/2015 6:30:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503I19-002E	MW 22-D	3/18/2015 6:30:00PM	Groundwater	Sulfide by SM4500-S2-F			03/24/2015
1503I19-002F	MW 22-D	3/18/2015 6:30:00PM	Groundwater	Alkalinity by SM2320B			03/25/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04705	0	50.00		94.1	70.6	123				
Surr: Dibromofluoromethane	0.05850	0	50.00		117	78.7	124				
Surr: Toluene-d8	0.05039	0	50.00		101	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: 204913

Sample ID: **LCS-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04764	0.005	50.00		95.3	64.2	137				
Benzene	0.04647	0.005	50.00		92.9	72.8	128				
Chlorobenzene	0.05008	0.005	50.00		100	72.3	126				
Toluene	0.04828	0.005	50.00		96.6	74.9	127				
Trichloroethene	0.04789	0.005	50.00		95.8	70.5	134				
Surr: 4-Bromofluorobenzene	0.04892	0	50.00		97.8	70.6	123				
Surr: Dibromofluoromethane	0.05591	0	50.00		112	78.7	124				
Surr: Toluene-d8	0.04747	0	50.00		94.9	81.3	120				

Sample ID: **1503I16-004AMS** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123880**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.675	0.50	5000		93.5	60.5	156				
Benzene	4.693	0.50	5000		93.9	70	135				
Chlorobenzene	5.062	0.50	5000		101	70.5	132				
Toluene	5.014	0.50	5000		100	70.5	137				
Trichloroethene	5.707	0.50	5000	759.0	99.0	71.8	139				
Surr: 4-Bromofluorobenzene	4.757	0	5000		95.1	70.6	123				
Surr: Dibromofluoromethane	5.825	0	5000		116	78.7	124				
Surr: Toluene-d8	4.944	0	5000		98.9	81.3	120				

Sample ID: **1503I16-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.721	0.50	5000		94.4	60.5	156	4675	0.979	20	
Benzene	4.705	0.50	5000		94.1	70	135	4693	0.255	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **1503I16-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	4.968	0.50	5000		99.4	70.5	132	5062	1.87	20	
Toluene	4.901	0.50	5000		98.0	70.5	137	5014	2.28	20	
Trichloroethene	5.742	0.50	5000	759.0	99.7	71.8	139	5707	0.611	20	
Surr: 4-Bromofluorobenzene	4.728	0	5000		94.6	70.6	123	4757	0	0	
Surr: Dibromofluoromethane	5.819	0	5000		116	78.7	124	5825	0	0	
Surr: Toluene-d8	4.999	0	5000		100.0	81.3	120	4944	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: 204958

Sample ID: **MB-204958** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126140**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.05010	0	50.00		100	70.6	123				
Surr: Dibromofluoromethane	0.04997	0	50.00		99.9	78	126				
Surr: Toluene-d8	0.04978	0	50.00		99.6	77.1	119				

Sample ID: **LCS-204958** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126139**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.01129	0.0050	10.00		113	67	135				
Surr: 4-Bromofluorobenzene	0.05188	0	50.00		104	70.6	123				
Surr: Dibromofluoromethane	0.05000	0	50.00		100	78	126				
Surr: Toluene-d8	0.04985	0	50.00		99.7	77.1	119				

Sample ID: **1503I18-001AMS** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126143**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1773	0.050	100.0	63.80	114	47.8	133				
Surr: 4-Bromofluorobenzene	0.4920	0	500.0		98.4	70.6	123				
Surr: Dibromofluoromethane	0.5002	0	500.0		100	78	126				
Surr: Toluene-d8	0.5027	0	500.0		101	77.1	119				

Sample ID: **1503I18-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1877	0.050	100.0	63.80	124	47.8	133	177.3	5.70	37.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: **204958**

Sample ID: **1503I18-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.4961	0	500.0		99.2	70.6	123	492.0	0	0	
Surr: Dibromofluoromethane	0.5048	0	500.0		101	78	126	500.2	0	0	
Surr: Toluene-d8	0.5042	0	500.0		101	77.1	119	502.7	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: 204965

Sample ID: **MB-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129927**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	0									
Ethylene	BRL	0									
Methane	BRL	0									

Sample ID: **LCS-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129928**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1156	0	200.0		57.8	41.2	115				
Ethylene	0.07550	0	200.0		37.8	26.5	115				
Methane	0.1256	0	200.0		62.8	45.1	115				

Sample ID: **LCSD-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129929**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1067	0	200.0		53.4	41.2	115	115.6	7.97	20	
Ethylene	0.07016	0	200.0		35.1	26.5	115	75.50	7.34	20	
Methane	0.1164	0	200.0		58.2	45.1	115	125.6	7.58	20	

Sample ID: **1503I26-001BMS** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130209**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1051	0	200.0		52.6	40.5	115				
Ethylene	0.09207	0	200.0		46.0	25.1	115				
Methane	0.09701	0	200.0		48.5	40.4	115				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: **204965**

Sample ID: **1503I26-001BMSD** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1277	0	200.0		63.9	40.5	115	105.1	19.4	20	
Ethylene	0.08514	0	200.0		42.6	25.1	115	92.07	7.83	20	
Methane	0.1339	0	200.0		67.0	40.4	115	97.01	32.0	20	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: R288278

Sample ID: **MB-R288278** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MBLK** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/19/2015** Seq No: **6124252**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.00									
Nitrogen, Nitrate (As N)	BRL	0.250									
Sulfate	BRL	1.00									

Sample ID: **LCS-R288278** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **LCS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/19/2015** Seq No: **6124251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	4.629	1.00	5.000		92.6	90	110				
Nitrogen, Nitrate (As N)	4.949	0.250	5.000		99.0	90	110				
Sulfate	22.90	1.00	25.00		91.6	90	110				

Sample ID: **1503I16-001DMS** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/20/2015** Seq No: **6124265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.822	1.00	5.000	5.220	92.0	90	110				
Nitrogen, Nitrate (As N)	5.317	0.250	5.000	0.3723	98.9	90	110				
Sulfate	31.74	1.00	25.00	7.994	95.0	90	110				

Sample ID: **1503I16-001DMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288278**
SampleType: **MSD** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288278** Analysis Date: **03/20/2015** Seq No: **6124266**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.854	1.00	5.000	5.220	92.7	90	110	9.822	0.326	20	
Nitrogen, Nitrate (As N)	5.333	0.250	5.000	0.3723	99.2	90	110	5.317	0.302	20	
Sulfate	31.58	1.00	25.00	7.994	94.3	90	110	31.74	0.529	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: R288407

Sample ID: **MB-R288407** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/24/2015** Seq No: **6127599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R288407** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/24/2015** Seq No: **6127598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.41	1.00	25.00		106	90	110				

Sample ID: **1503J32-001CMS** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/25/2015** Seq No: **6127625**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	33.68	1.00	25.00	6.390	109	80	120				

Sample ID: **1503J32-001CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/25/2015** Seq No: **6127626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	33.40	1.00	25.00	6.390	108	80	120	33.68	0.835	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: R288502

Sample ID: **MB-R288502** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MBLK** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129757**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	1.00									

Sample ID: **LCS-R288502** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **LCS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129758**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	360.0	1.00	360.0		100	90	110				

Sample ID: **1503I16-001EMS** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129769**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	20.80	1.00	18.00	1.000	110	80	120				

Sample ID: **1503I16-001EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288502**
SampleType: **MSD** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288502** Analysis Date: **03/24/2015** Seq No: **6129770**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	20.60	1.00	18.00	1.000	109	80	120	20.80	0.966	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503I19

ANALYTICAL QC SUMMARY REPORT

BatchID: R288510

Sample ID: **MB-R288510** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **MBLK** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130033**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R288510** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **LCS** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130034**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	123.0	3.00	125.0		98.4	75	125				

Sample ID: **1503I16-005FDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6130032**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	230.0	30.0						230.0	0	30	

Sample ID: **1503I26-001GDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288510**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288510** Analysis Date: **03/25/2015** Seq No: **6131112**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	9.000	3.00						9.000	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 12, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC Dalton

Dear Kristen Rivera: Order No: 1503J99

Analytical Environmental Services, Inc. received 8 samples on 3/20/2015 3:35:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/12/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: NW 3121 ~~1503J98~~ 1503J99

Date: 3/19/15 Page 1 of 1

COMPANY: EarthCon Consultants, Inc
ADDRESS: 1880 West Oak Pkwy 13d100 STE106 Marietta, GA 30062
PHONE: 770-973-2100
FAX: 770-973-7395
SAMPLED BY: Thomas Stellar Kent McDaniel Karten Henry
SIGNATURE: Kenton Daniel

ANALYSIS REQUESTED: MGA Gases; VOCs; 1,4-Dioxane; Alkalinity; TOC; Sulfide; TDS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	MGA Gases (HI)	VOCs (HI)	1,4-Dioxane (HI)	Alkalinity (I)	TOC (SI)	Sulfide (O)	TDS (I)	REMARKS	No # of Containers
1	DMW-2	3/19/15	1035	X		GW	2	2	2	1	1	1	1		10
2	OBG-~~700~~ W7	3/19/15	1020	X		GW	2	2	2	1	1	1	1		10
3	DMW-7/DRW-1	3/19/15	11:30	X		GW	2	2	2	1	1	1	1		10
4	DMW-9/DRW-3	3-19-15	12:30	X		GW	2	2	2	1	1	1	1		10
5	TRIP BLANK	—	—			W	2								2
6	DMW-6	3/19/15	1300	X		GW	2	2	2	1	1	1	1		10
7	DMW-1	3-19-15	14:50	X		GW	2	2	2	1	1	1	1		10
8	AMW-12	3/19/15	1620	X		GW	2	2	2	1	1	1	1		10
9															
10															
11															
12															
13															
14															

PRESERVATION (See codes): HI HI HI I SI O I

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Kent	3/20/2015 8:30	1:	3-20-15 11:57
2:	3-20-15 15:35	2: Mark	3/20/15 3:35
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: AMC Dalton
PROJECT #: 02.20
SITE ADDRESS: Dalton, GA
SEND REPORT TO: Kristen Rivera
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 72

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC Dalton
Lab ID: 1503J99

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1503J99-008 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Total Organic Carbon Analysis by Method SM5310B:

Due to sample matrix, sample 1503J99-008 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Revision:

Per Kristen Rivera via email 8/6/2015, the TCL list was reported for VOCs for all samples. In addition, results were reported in mg/L.

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-2
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 10:35:00 AM
Lab ID:	1503J99-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288407	1	03/24/2015 20:32	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 04:37	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
Acetone	BRL	0.050		mg/L	204913	1	03/24/2015 04:37	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 04:37	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-2
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 10:35:00 AM
Lab ID:	1503J99-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Tetrachloroethene	0.016	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 04:37	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/24/2015 04:37	NP
Surr: 4-Bromofluorobenzene	94.8	70.6-123		%REC	204913	1	03/24/2015 04:37	NP
Surr: Dibromofluoromethane	117	78.7-124		%REC	204913	1	03/24/2015 04:37	NP
Surr: Toluene-d8	98.9	81.3-120		%REC	204913	1	03/24/2015 04:37	NP
Sulfide by SM4500-S2-F								
Sulfide	1.40	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	2.65	1.00		mg/L	R288477	1	03/20/2015 19:31	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 19:31	JW
Sulfate	37.2	1.00		mg/L	R288477	1	03/20/2015 19:31	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 17:00	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 17:00	AB
Methane	BRL	0		mg/L	204965	1	03/25/2015 17:00	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	1450	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.0081	0.0050		mg/L	204958	1	03/24/2015 14:49	NP
Surr: 4-Bromofluorobenzene	99.5	70.6-123		%REC	204958	1	03/24/2015 14:49	NP
Surr: Dibromofluoromethane	100	78-126		%REC	204958	1	03/24/2015 14:49	NP
Surr: Toluene-d8	100	77.1-119		%REC	204958	1	03/24/2015 14:49	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-W7
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 10:20:00 AM
Lab ID:	1503J99-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.21	1.00		mg/L	R288407	1	03/24/2015 20:51	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	7.1	0.25		mg/L	204913	50	03/24/2015 07:22	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,1-Dichloroethane	0.16	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,1-Dichloroethene	3.7	0.25		mg/L	204913	50	03/24/2015 07:22	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,2-Dichloroethane	0.020	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
2-Butanone	BRL	0.050		mg/L	204913	1	03/25/2015 07:49	TH
2-Hexanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
Acetone	BRL	0.050		mg/L	204913	1	03/25/2015 07:49	TH
Benzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Bromoform	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Bromomethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Chloroethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
Chloroform	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Chloromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
cis-1,2-Dichloroethene	0.039	0.005		mg/L	204913	1	03/25/2015 07:49	TH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Cyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Freon-113	BRL	0.010		mg/L	204913	1	03/25/2015 07:49	TH
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Methyl acetate	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	OBG-W7
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 10:20:00 AM
Lab ID:	1503J99-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	0.089	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Methylene chloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
o-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Styrene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Tetrachloroethene	0.035	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Toluene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Trichloroethene	0.063	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:49	TH
Vinyl chloride	0.006	0.002		mg/L	204913	1	03/25/2015 07:49	TH
Surr: 4-Bromofluorobenzene	88	70.6-123		%REC	204913	1	03/25/2015 07:49	TH
Surr: 4-Bromofluorobenzene	96.1	70.6-123		%REC	204913	50	03/24/2015 07:22	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	204913	1	03/25/2015 07:49	TH
Surr: Dibromofluoromethane	122	78.7-124		%REC	204913	50	03/24/2015 07:22	NP
Surr: Toluene-d8	92	81.3-120		%REC	204913	1	03/25/2015 07:49	TH
Surr: Toluene-d8	98.7	81.3-120		%REC	204913	50	03/24/2015 07:22	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	38.1	10.0		mg/L	R288477	10	03/23/2015 09:49	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 19:46	JW
Sulfate	5.62	1.00		mg/L	R288477	1	03/20/2015 19:46	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 17:05	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 17:05	AB
Methane	1	0		mg/L	204965	10	03/25/2015 17:30	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	260	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.061	0.050		mg/L	204958	10	03/25/2015 09:55	NP
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	204958	10	03/25/2015 09:55	NP
Surr: Dibromofluoromethane	99.3	78-126		%REC	204958	10	03/25/2015 09:55	NP
Surr: Toluene-d8	96.9	77.1-119		%REC	204958	10	03/25/2015 09:55	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-7/DRW-1
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 11:30:00 AM
Lab ID:	1503J99-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	3.20	1.00		mg/L	R288407	1	03/24/2015 21:10	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	12	0.50		mg/L	204913	100	03/25/2015 05:23	TH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,1-Dichloroethane	0.078	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,1-Dichloroethene	17	0.50		mg/L	204913	100	03/25/2015 05:23	TH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,2-Dichloroethane	0.080	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
2-Butanone	BRL	0.050		mg/L	204913	1	03/25/2015 07:25	TH
2-Hexanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
Acetone	BRL	0.050		mg/L	204913	1	03/25/2015 07:25	TH
Benzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Bromoform	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Bromomethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Chloroethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
Chloroform	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Chloromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Cyclohexane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Freon-113	BRL	0.010		mg/L	204913	1	03/25/2015 07:25	TH
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Methyl acetate	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-7/DRW-1
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 11:30:00 AM
Lab ID:	1503J99-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	0.039	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Methylene chloride	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
o-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Styrene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Toluene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Trichloroethene	0.012	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/25/2015 07:25	TH
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/25/2015 07:25	TH
Surr: 4-Bromofluorobenzene	85.4	70.6-123		%REC	204913	1	03/25/2015 07:25	TH
Surr: 4-Bromofluorobenzene	87.8	70.6-123		%REC	204913	100	03/25/2015 05:23	TH
Surr: Dibromofluoromethane	105	78.7-124		%REC	204913	1	03/25/2015 07:25	TH
Surr: Dibromofluoromethane	118	78.7-124		%REC	204913	100	03/25/2015 05:23	TH
Surr: Toluene-d8	90.5	81.3-120		%REC	204913	1	03/25/2015 07:25	TH
Surr: Toluene-d8	96.5	81.3-120		%REC	204913	100	03/25/2015 05:23	TH
Sulfide by SM4500-S2-F								
Sulfide	1.20	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	70.3	10.0		mg/L	R288477	10	03/23/2015 10:04	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 20:01	JW
Sulfate	9.94	1.00		mg/L	R288477	1	03/20/2015 20:01	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 17:15	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 17:15	AB
Methane	0	0		mg/L	204965	1	03/25/2015 17:15	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	220	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.019	0.0050		mg/L	204958	1	03/24/2015 17:55	NP
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	204958	1	03/24/2015 17:55	NP
Surr: Dibromofluoromethane	66.8	78-126	S	%REC	204958	1	03/24/2015 17:55	NP
Surr: Toluene-d8	97.7	77.1-119		%REC	204958	1	03/24/2015 17:55	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-9/DRW-3
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 12:30:00 PM
Lab ID:	1503J99-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	3.80	1.00		mg/L	R288407	1	03/24/2015 21:28	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	1.8	0.050		mg/L	204913	10	03/24/2015 03:03	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,1-Dichloroethane	0.11	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,1-Dichloroethene	2.7	0.10		mg/L	204913	20	03/25/2015 05:47	TH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,2-Dichloroethane	0.011	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/25/2015 09:50	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
Acetone	BRL	0.050		mg/L	204913	1	03/25/2015 09:50	NP
Benzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
cis-1,2-Dichloroethene	0.041	0.005		mg/L	204913	1	03/25/2015 09:50	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Cyclohexane	0.066	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/25/2015 09:50	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-9/DRW-3
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 12:30:00 PM
Lab ID:	1503J99-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	0.043	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Styrene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Tetrachloroethene	0.006	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Toluene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Trichloroethene	0.020	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/25/2015 09:50	NP
Vinyl chloride	0.006	0.002		mg/L	204913	1	03/25/2015 09:50	NP
Surr: 4-Bromofluorobenzene	98.7	70.6-123		%REC	204913	1	03/25/2015 09:50	NP
Surr: 4-Bromofluorobenzene	97.4	70.6-123		%REC	204913	10	03/24/2015 03:03	NP
Surr: 4-Bromofluorobenzene	86.8	70.6-123		%REC	204913	20	03/25/2015 05:47	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	1	03/25/2015 09:50	NP
Surr: Dibromofluoromethane	116	78.7-124		%REC	204913	10	03/24/2015 03:03	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	204913	20	03/25/2015 05:47	TH
Surr: Toluene-d8	97.4	81.3-120		%REC	204913	1	03/25/2015 09:50	NP
Surr: Toluene-d8	95.8	81.3-120		%REC	204913	10	03/24/2015 03:03	NP
Surr: Toluene-d8	92.8	81.3-120		%REC	204913	20	03/25/2015 05:47	TH
Sulfide by SM4500-S2-F								
Sulfide	1.40	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	30.6	10.0		mg/L	R288477	10	03/23/2015 10:19	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 20:16	JW
Sulfate	5.82	1.00		mg/L	R288477	1	03/20/2015 20:16	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/25/2015 17:22	AB
Ethylene	BRL	0		mg/L	204965	1	03/25/2015 17:22	AB
Methane	1	0		mg/L	204965	10	03/25/2015 17:36	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	290	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.019	0.0050		mg/L	204958	1	03/24/2015 15:15	NP
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	204958	1	03/24/2015 15:15	NP
Surr: Dibromofluoromethane	93.2	78-126		%REC	204958	1	03/24/2015 15:15	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-9/DRW-3
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 12:30:00 PM
Lab ID:	1503J99-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
1,4-Dioxane by SIM GC/MS SW8260B-SIM (SW5030B)								
Surr: Toluene-d8	96.3	77.1-119		%REC	204958	1	03/24/2015 15:15	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015
Lab ID:	1503J99-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,1-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,1-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/23/2015 23:05	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
Acetone	BRL	0.050		mg/L	204913	1	03/23/2015 23:05	NP
Benzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/23/2015 23:05	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015
Lab ID:	1503J99-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Toluene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/23/2015 23:05	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/23/2015 23:05	NP
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	204913	1	03/23/2015 23:05	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	204913	1	03/23/2015 23:05	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	204913	1	03/23/2015 23:05	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-6
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 1:00:00 PM
Lab ID:	1503J99-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	12.3	1.00		mg/L	R288407	1	03/24/2015 21:42	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.055	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,1-Dichloroethane	0.036	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,1-Dichloroethene	0.023	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 05:00	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
Acetone	0.17	0.050		mg/L	204913	1	03/24/2015 05:00	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
cis-1,2-Dichloroethene	0.12	0.005		mg/L	204913	1	03/24/2015 05:00	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 05:00	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-6
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 1:00:00 PM
Lab ID:	1503J99-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Tetrachloroethene	0.40	0.050		mg/L	204913	10	03/25/2015 06:36	TH
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Trichloroethene	0.17	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 05:00	NP
Vinyl chloride	0.33	0.020		mg/L	204913	10	03/25/2015 06:36	TH
Surr: 4-Bromofluorobenzene	94.1	70.6-123		%REC	204913	1	03/24/2015 05:00	NP
Surr: 4-Bromofluorobenzene	84.6	70.6-123		%REC	204913	10	03/25/2015 06:36	TH
Surr: Dibromofluoromethane	122	78.7-124		%REC	204913	1	03/24/2015 05:00	NP
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	10	03/25/2015 06:36	TH
Surr: Toluene-d8	101	81.3-120		%REC	204913	1	03/24/2015 05:00	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	204913	10	03/25/2015 06:36	TH
Sulfide by SM4500-S2-F								
Sulfide	1.60	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	6.31	1.00		mg/L	R288477	1	03/20/2015 21:16	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 21:16	JW
Sulfate	2.88	1.00		mg/L	R288477	1	03/20/2015 21:16	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/26/2015 10:08	AB
Ethylene	0	0		mg/L	204965	1	03/26/2015 10:08	AB
Methane	5	0		mg/L	204965	50	03/26/2015 10:35	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	430	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.025	0.0050		mg/L	204958	1	03/24/2015 16:35	NP
Surr: 4-Bromofluorobenzene	98.3	70.6-123		%REC	204958	1	03/24/2015 16:35	NP
Surr: Dibromofluoromethane	101	78-126		%REC	204958	1	03/24/2015 16:35	NP
Surr: Toluene-d8	100	77.1-119		%REC	204958	1	03/24/2015 16:35	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-1
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 2:50:00 PM
Lab ID:	1503J99-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R288407	1	03/24/2015 21:57	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	0.17	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,1,2-Trichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,1-Dichloroethane	0.015	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,1-Dichloroethene	0.32	0.050		mg/L	204913	10	03/24/2015 03:49	NP
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,2-Dibromoethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,2-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,2-Dichloroethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,2-Dichloropropane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,3-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
1,4-Dichlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
2-Butanone	BRL	0.050		mg/L	204913	1	03/24/2015 03:26	NP
2-Hexanone	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
Acetone	0.050	0.050		mg/L	204913	1	03/24/2015 03:26	NP
Benzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Bromodichloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Bromoform	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Bromomethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Carbon disulfide	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Carbon tetrachloride	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Chlorobenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Chloroethane	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
Chloroform	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Chloromethane	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Cyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Dibromochloromethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Dichlorodifluoromethane	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
Ethylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Freon-113	BRL	0.010		mg/L	204913	1	03/24/2015 03:26	NP
Isopropylbenzene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
m,p-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Methyl acetate	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Methyl tert-butyl ether	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	DMW-1
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 2:50:00 PM
Lab ID:	1503J99-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Methylene chloride	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
o-Xylene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Styrene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Tetrachloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Toluene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Trichloroethene	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Trichlorofluoromethane	BRL	0.005		mg/L	204913	1	03/24/2015 03:26	NP
Vinyl chloride	BRL	0.002		mg/L	204913	1	03/24/2015 03:26	NP
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	204913	1	03/24/2015 03:26	NP
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	204913	10	03/24/2015 03:49	NP
Surr: Dibromofluoromethane	119	78.7-124		%REC	204913	1	03/24/2015 03:26	NP
Surr: Dibromofluoromethane	118	78.7-124		%REC	204913	10	03/24/2015 03:49	NP
Surr: Toluene-d8	98.9	81.3-120		%REC	204913	1	03/24/2015 03:26	NP
Surr: Toluene-d8	100	81.3-120		%REC	204913	10	03/24/2015 03:49	NP
Sulfide by SM4500-S2-F								
Sulfide	1.80	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	2.99	1.00		mg/L	R288477	1	03/20/2015 21:31	JW
Nitrogen, Nitrate (As N)	BRL	0.250		mg/L	R288477	1	03/20/2015 21:31	JW
Sulfate	13.5	1.00		mg/L	R288477	1	03/20/2015 21:31	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/26/2015 10:13	AB
Ethylene	BRL	0		mg/L	204965	1	03/26/2015 10:13	AB
Methane	BRL	0		mg/L	204965	1	03/26/2015 10:13	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	250	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.0059	0.0050		mg/L	204958	1	03/24/2015 15:42	NP
Surr: 4-Bromofluorobenzene	99.9	70.6-123		%REC	204958	1	03/24/2015 15:42	NP
Surr: Dibromofluoromethane	103	78-126		%REC	204958	1	03/24/2015 15:42	NP
Surr: Toluene-d8	99.4	77.1-119		%REC	204958	1	03/24/2015 15:42	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-12
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 4:20:00 PM
Lab ID:	1503J99-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	5.00		mg/L	R288407	5	03/25/2015 13:59	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,1,2,2-Tetrachloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,1,2-Trichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,1-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,1-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2,4-Trichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2-Dibromo-3-chloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2-Dibromoethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2-Dichloroethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,2-Dichloropropane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,3-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
1,4-Dichlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
2-Butanone	BRL	2.5		mg/L	204913	50	03/24/2015 08:09	NP
2-Hexanone	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
4-Methyl-2-pentanone	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
Acetone	BRL	2.5		mg/L	204913	50	03/24/2015 08:09	NP
Benzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Bromodichloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Bromoform	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Bromomethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Carbon disulfide	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Carbon tetrachloride	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Chlorobenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Chloroethane	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
Chloroform	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Chloromethane	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
cis-1,2-Dichloroethene	0.79	0.25		mg/L	204913	50	03/24/2015 08:09	NP
cis-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Cyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Dibromochloromethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Dichlorodifluoromethane	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
Ethylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Freon-113	BRL	0.50		mg/L	204913	50	03/24/2015 08:09	NP
Isopropylbenzene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
m,p-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Methyl acetate	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Methyl tert-butyl ether	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	AMW-12
Project Name:	AMC Dalton	**Collection Date:**	3/19/2015 4:20:00 PM
Lab ID:	1503J99-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Methylene chloride	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
o-Xylene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Styrene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Tetrachloroethene	34	2.5		mg/L	204913	500	03/25/2015 09:03	NP
Toluene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
trans-1,2-Dichloroethene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
trans-1,3-Dichloropropene	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Trichloroethene	1.3	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Trichlorofluoromethane	BRL	0.25		mg/L	204913	50	03/24/2015 08:09	NP
Vinyl chloride	BRL	0.10		mg/L	204913	50	03/24/2015 08:09	NP
Surr: 4-Bromofluorobenzene	95.5	70.6-123		%REC	204913	50	03/24/2015 08:09	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	204913	500	03/25/2015 09:03	NP
Surr: Dibromofluoromethane	118	78.7-124		%REC	204913	50	03/24/2015 08:09	NP
Surr: Dibromofluoromethane	120	78.7-124		%REC	204913	500	03/25/2015 09:03	NP
Surr: Toluene-d8	100	81.3-120		%REC	204913	50	03/24/2015 08:09	NP
Surr: Toluene-d8	100	81.3-120		%REC	204913	500	03/25/2015 09:03	NP
Sulfide by SM4500-S2-F								
Sulfide	1.80	1.00		mg/L	R288601	1	03/25/2015 09:00	PF
Inorganic Anions by IC E300.0								
Chloride	11.9	1.00		mg/L	R288477	1	03/20/2015 21:46	JW
Nitrogen, Nitrate (As N)	0.911	0.250		mg/L	R288477	1	03/20/2015 21:46	JW
Sulfate	9.95	1.00		mg/L	R288477	1	03/20/2015 21:46	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	0		mg/L	204965	1	03/26/2015 10:18	AB
Ethylene	BRL	0		mg/L	204965	1	03/26/2015 10:18	AB
Methane	BRL	0		mg/L	204965	1	03/26/2015 10:18	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	200	30.0		mg/L	R288511	10	03/26/2015 12:50	PF
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	0.0081	0.0050		mg/L	204958	1	03/24/2015 18:22	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	204958	1	03/24/2015 18:22	NP
Surr: Dibromofluoromethane	100	78-126		%REC	204958	1	03/24/2015 18:22	NP
Surr: Toluene-d8	101	77.1-119		%REC	204958	1	03/24/2015 18:22	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con

Work Order Number ~~1503J99~~ 1503J99 MW 3/21

Checklist completed by Mackie 3/20/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1° Cooler #2 3.9° Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MS

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 3-Apr-15

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503J99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503J99-001A	DMW-2	3/19/2015 10:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-001A	DMW-2	3/19/2015 10:35:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-001B	DMW-2	3/19/2015 10:35:00AM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503J99-001C	DMW-2	3/19/2015 10:35:00AM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503J99-001D	DMW-2	3/19/2015 10:35:00AM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-001E	DMW-2	3/19/2015 10:35:00AM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-001F	DMW-2	3/19/2015 10:35:00AM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-002A	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/25/2015
1503J99-002A	OBG-W7	3/19/2015 10:20:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-002A	OBG-W7	3/19/2015 10:20:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503J99-002B	OBG-W7	3/19/2015 10:20:00AM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503J99-002C	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503J99-002D	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-002D	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Inorganic Anions by IC			03/23/2015
1503J99-002E	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-002F	OBG-W7	3/19/2015 10:20:00AM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-003A	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-003A	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503J99-003B	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503J99-003C	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503J99-003D	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-003D	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Inorganic Anions by IC			03/23/2015
1503J99-003E	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-003F	DMW-7/DRW-1	3/19/2015 11:30:00AM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-004A	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-004A	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-004A	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503J99-004B	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/25/2015
1503J99-004C	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Lab Order: 1503J99

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1503J99-004D	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-004D	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Inorganic Anions by IC			03/23/2015
1503J99-004E	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-004F	DMW-9/DRW-3	3/19/2015 12:30:00PM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-005A	TRIP BLANK	3/19/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-005A	TRIP BLANK	3/19/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/23/2015
1503J99-006A	DMW-6	3/19/2015 1:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-006A	DMW-6	3/19/2015 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-006A	DMW-6	3/19/2015 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503J99-006B	DMW-6	3/19/2015 1:00:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/26/2015
1503J99-006C	DMW-6	3/19/2015 1:00:00PM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503J99-006D	DMW-6	3/19/2015 1:00:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-006E	DMW-6	3/19/2015 1:00:00PM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-006F	DMW-6	3/19/2015 1:00:00PM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-007A	DMW-1	3/19/2015 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-007A	DMW-1	3/19/2015 2:50:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-007B	DMW-1	3/19/2015 2:50:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/26/2015
1503J99-007C	DMW-1	3/19/2015 2:50:00PM	Groundwater	Total Organic Carbon by SM5310B			03/24/2015
1503J99-007D	DMW-1	3/19/2015 2:50:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-007E	DMW-1	3/19/2015 2:50:00PM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-007F	DMW-1	3/19/2015 2:50:00PM	Groundwater	Alkalinity by SM2320B			03/26/2015
1503J99-008A	AMW-12	3/19/2015 4:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		3/24/2015 11:14:00 AM	03/24/2015
1503J99-008A	AMW-12	3/19/2015 4:20:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/24/2015
1503J99-008A	AMW-12	3/19/2015 4:20:00PM	Groundwater	TCL VOLATILE ORGANICS		3/23/2015 9:29:00 PM	03/25/2015
1503J99-008B	AMW-12	3/19/2015 4:20:00PM	Groundwater	GC Analysis of Gaseous Samples		3/25/2015 9:14:55 AM	03/26/2015
1503J99-008C	AMW-12	3/19/2015 4:20:00PM	Groundwater	Total Organic Carbon by SM5310B			03/25/2015
1503J99-008D	AMW-12	3/19/2015 4:20:00PM	Groundwater	Inorganic Anions by IC			03/20/2015
1503J99-008E	AMW-12	3/19/2015 4:20:00PM	Groundwater	Sulfide by SM4500-S2-F			03/25/2015
1503J99-008F	AMW-12	3/19/2015 4:20:00PM	Groundwater	Alkalinity by SM2320B			03/26/2015

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **MB-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123875**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04705	0	50.00		94.1	70.6	123				
Surr: Dibromofluoromethane	0.05850	0	50.00		117	78.7	124				
Surr: Toluene-d8	0.05039	0	50.00		101	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: 204913

Sample ID: **LCS-204913** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123874**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04764	0.005	50.00		95.3	64.2	137				
Benzene	0.04647	0.005	50.00		92.9	72.8	128				
Chlorobenzene	0.05008	0.005	50.00		100	72.3	126				
Toluene	0.04828	0.005	50.00		96.6	74.9	127				
Trichloroethene	0.04789	0.005	50.00		95.8	70.5	134				
Surr: 4-Bromofluorobenzene	0.04892	0	50.00		97.8	70.6	123				
Surr: Dibromofluoromethane	0.05591	0	50.00		112	78.7	124				
Surr: Toluene-d8	0.04747	0	50.00		94.9	81.3	120				

Sample ID: **1503I16-004AMS** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/23/2015** Seq No: **6123880**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.675	0.50	5000		93.5	60.5	156				
Benzene	4.693	0.50	5000		93.9	70	135				
Chlorobenzene	5.062	0.50	5000		101	70.5	132				
Toluene	5.014	0.50	5000		100	70.5	137				
Trichloroethene	5.707	0.50	5000	759.0	99.0	71.8	139				
Surr: 4-Bromofluorobenzene	4.757	0	5000		95.1	70.6	123				
Surr: Dibromofluoromethane	5.825	0	5000		116	78.7	124				
Surr: Toluene-d8	4.944	0	5000		98.9	81.3	120				

Sample ID: **1503I16-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4.721	0.50	5000		94.4	60.5	156	4675	0.979	20	
Benzene	4.705	0.50	5000		94.1	70	135	4693	0.255	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **204913**

Sample ID: **1503I16-004AMSD** Client ID: Units: **mg/L** Prep Date: **03/23/2015** Run No: **288255**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204913** Analysis Date: **03/24/2015** Seq No: **6123881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	4.968	0.50	5000		99.4	70.5	132	5062	1.87	20	
Toluene	4.901	0.50	5000		98.0	70.5	137	5014	2.28	20	
Trichloroethene	5.742	0.50	5000	759.0	99.7	71.8	139	5707	0.611	20	
Surr: 4-Bromofluorobenzene	4.728	0	5000		94.6	70.6	123	4757	0	0	
Surr: Dibromofluoromethane	5.819	0	5000		116	78.7	124	5825	0	0	
Surr: Toluene-d8	4.999	0	5000		100.0	81.3	120	4944	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: 204958

Sample ID: **MB-204958** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126140**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.05010	0	50.00		100	70.6	123				
Surr: Dibromofluoromethane	0.04997	0	50.00		99.9	78	126				
Surr: Toluene-d8	0.04978	0	50.00		99.6	77.1	119				

Sample ID: **LCS-204958** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126139**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.01129	0.0050	10.00		113	67	135				
Surr: 4-Bromofluorobenzene	0.05188	0	50.00		104	70.6	123				
Surr: Dibromofluoromethane	0.05000	0	50.00		100	78	126				
Surr: Toluene-d8	0.04985	0	50.00		99.7	77.1	119				

Sample ID: **1503I18-001AMS** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126143**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1773	0.050	100.0	63.80	114	47.8	133				
Surr: 4-Bromofluorobenzene	0.4920	0	500.0		98.4	70.6	123				
Surr: Dibromofluoromethane	0.5002	0	500.0		100	78	126				
Surr: Toluene-d8	0.5027	0	500.0		101	77.1	119				

Sample ID: **1503I18-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1877	0.050	100.0	63.80	124	47.8	133	177.3	5.70	37.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **204958**

Sample ID: **1503I18-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/24/2015** Run No: **288346**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **204958** Analysis Date: **03/24/2015** Seq No: **6126144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.4961	0	500.0		99.2	70.6	123	492.0	0	0	
Surr: Dibromofluoromethane	0.5048	0	500.0		101	78	126	500.2	0	0	
Surr: Toluene-d8	0.5042	0	500.0		101	77.1	119	502.7	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: 204965

Sample ID: **MB-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129927**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	BRL	0									
Ethylene	BRL	0									
Methane	BRL	0									

Sample ID: **LCS-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129928**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1156	0	200.0		57.8	41.2	115				
Ethylene	0.07550	0	200.0		37.8	26.5	115				
Methane	0.1256	0	200.0		62.8	45.1	115				

Sample ID: **LCSD-204965** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288505**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/25/2015** Seq No: **6129929**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1067	0	200.0		53.4	41.2	115	115.6	7.97	20	
Ethylene	0.07016	0	200.0		35.1	26.5	115	75.50	7.34	20	
Methane	0.1164	0	200.0		58.2	45.1	115	125.6	7.58	20	

Sample ID: **1503I26-001BMS** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130209**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1051	0	200.0		52.6	40.5	115				
Ethylene	0.09207	0	200.0		46.0	25.1	115				
Methane	0.09701	0	200.0		48.5	40.4	115				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **204965**

Sample ID: **1503I26-001BMSD** Client ID: Units: **mg/L** Prep Date: **03/25/2015** Run No: **288520**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **204965** Analysis Date: **03/26/2015** Seq No: **6130265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	0.1277	0	200.0		63.9	40.5	115	105.1	19.4	20	
Ethylene	0.08514	0	200.0		42.6	25.1	115	92.07	7.83	20	
Methane	0.1339	0	200.0		67.0	40.4	115	97.01	32.0	20	R

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: R288407

Sample ID: **MB-R288407** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/24/2015** Seq No: **6127599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R288407** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/24/2015** Seq No: **6127598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.41	1.00	25.00		106	90	110				

Sample ID: **1503J32-001CMS** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/25/2015** Seq No: **6127625**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	33.68	1.00	25.00	6.390	109	80	120				

Sample ID: **1503J32-001CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288407**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) by SM5310B** BatchID: **R288407** Analysis Date: **03/25/2015** Seq No: **6127626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	33.40	1.00	25.00	6.390	108	80	120	33.68	0.835	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: R288477

Sample ID: **MB-R288477** Client ID: Units: **mg/L** Prep Date: Run No: **288477**
SampleType: **MBLK** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288477** Analysis Date: **03/20/2015** Seq No: **6129164**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.00									
Nitrogen, Nitrate (As N)	BRL	0.250									
Sulfate	BRL	1.00									

Sample ID: **LCS-R288477** Client ID: Units: **mg/L** Prep Date: Run No: **288477**
SampleType: **LCS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288477** Analysis Date: **03/20/2015** Seq No: **6129163**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	4.910	1.00	5.000		98.2	90	110				
Nitrogen, Nitrate (As N)	4.979	0.250	5.000		99.6	90	110				
Sulfate	24.71	1.00	25.00		98.8	90	110				

Sample ID: **1503I73-001BMS** Client ID: Units: **mg/L** Prep Date: Run No: **288477**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288477** Analysis Date: **03/20/2015** Seq No: **6129167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	80.95	10.0	50.00	33.50	94.9	90	110				
Nitrogen, Nitrate (As N)	54.02	2.50	50.00	4.172	99.7	90	110				
Sulfate	257.6	10.0	250.0	24.60	93.2	90	110				

Sample ID: **1503J57-001FMS** Client ID: Units: **mg/L** Prep Date: Run No: **288477**
SampleType: **MS** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288477** Analysis Date: **03/20/2015** Seq No: **6129173**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.614	1.00	5.000	2.773	96.8	90	110				
Nitrogen, Nitrate (As N)	5.218	0.250	5.000	0.2215	99.9	90	110				
Sulfate	25.54	1.00	25.00	1.211	97.3	90	110				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: **R288477**

Sample ID: **1503I73-001BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **288477**
SampleType: **MSD** TestCode: **Inorganic Anions by IC E300.0** BatchID: **R288477** Analysis Date: **03/20/2015** Seq No: **6129168**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	81.71	10.0	50.00	33.50	96.4	90	110	80.95	0.927	20	
Nitrogen, Nitrate (As N)	54.17	2.50	50.00	4.172	100	90	110	54.02	0.282	20	
Sulfate	259.0	10.0	250.0	24.60	93.8	90	110	257.6	0.523	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: R288511

Sample ID: **MB-R288511** Client ID: Units: **mg/L** Prep Date: Run No: **288511**
SampleType: **MBLK** TestCode: **Alkalinity by SM2320B** BatchID: **R288511** Analysis Date: **03/26/2015** Seq No: **6130051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R288511** Client ID: Units: **mg/L** Prep Date: Run No: **288511**
SampleType: **LCS** TestCode: **Alkalinity by SM2320B** BatchID: **R288511** Analysis Date: **03/26/2015** Seq No: **6130052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	125.0	3.00	125.0		100	75	125				

Sample ID: **1503J18-004DDUP** Client ID: Units: **mg/L** Prep Date: Run No: **288511**
SampleType: **DUP** TestCode: **Alkalinity by SM2320B** BatchID: **R288511** Analysis Date: **03/26/2015** Seq No: **6130067**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	200.0	30.0						200.0	0	30	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1503J99

ANALYTICAL QC SUMMARY REPORT

BatchID: R288601

Sample ID: **MB-R288601** Client ID: Units: **mg/L** Prep Date: Run No: **288601**
SampleType: **MBLK** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288601** Analysis Date: **03/25/2015** Seq No: **6132132**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	1.00									

Sample ID: **LCS-R288601** Client ID: Units: **mg/L** Prep Date: Run No: **288601**
SampleType: **LCS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288601** Analysis Date: **03/25/2015** Seq No: **6132133**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	356.0	1.00	356.0		100	90	110				

Sample ID: **1503J99-001EMS** Client ID: **DMW-2** Units: **mg/L** Prep Date: Run No: **288601**
SampleType: **MS** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288601** Analysis Date: **03/25/2015** Seq No: **6132144**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.80	1.00	17.80	1.400	80.9	80	120				

Sample ID: **1503J99-001EMSD** Client ID: **DMW-2** Units: **mg/L** Prep Date: Run No: **288601**
SampleType: **MSD** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288601** Analysis Date: **03/25/2015** Seq No: **6132145**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	15.60	1.00	17.80	1.400	79.8	80	120	15.80	1.27	20	S

Sample ID: **1503N28-001ADUP** Client ID: Units: **mg/L** Prep Date: Run No: **288601**
SampleType: **DUP** TestCode: **Sulfide by SM4500-S2-F** BatchID: **R288601** Analysis Date: **03/25/2015** Seq No: **6132890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	2.200	1.00						2.200	0	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 12, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC Dalton

Dear Kristen Rivera: Order No: 1504C24

Analytical Environmental Services, Inc. received 1 samples on 4/15/2015 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/12/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1504C24

Date: 4/15/15 Page 1 of 1

COMPANY: EARTH CON CONSULTANTS, INC.
ADDRESS: 1080 WEST OAK PKWY Bld. 100 STE 106 MARIETTA, GA 30062
PHONE: 770-973-2100
FAX: 770-973-2395
SAMPLED BY: KENT DAVIS
SIGNATURE: [signature]

ANALYSIS REQUESTED: VOCs; 1,4-Dioxane

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	1,4-Dioxane	REMARKS	No # of Containers
1	MW-23	4/15/15	0815	X		GW	2	2		4
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	4/15/15 1030	1: [signature]	4/15/15 10:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: ANC - Dalton
PROJECT #: 02.20140392.00
SITE ADDRESS: Dalton, GA
SEND REPORT TO: Kristen Rivera
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
⊗ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

STATE PROGRAM (if any): GA
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC Dalton
Lab ID: 1504C24

Case Narrative

Revision:

Per Kristen Rivera via email 8/6/2015, the TCL list was reported for VOCs for all samples. In addition, results were reported in mg/L.

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	MW-23
Project Name:	AMC Dalton	**Collection Date:**	4/15/2015 8:15:00 AM
Lab ID:	1504C24-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,1,2,2-Tetrachloroethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,1,2-Trichloroethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,1-Dichloroethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,1-Dichloroethene	0.002	J	0.002	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2,4-Trichlorobenzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2-Dibromo-3-chloropropane	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2-Dibromoethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2-Dichlorobenzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2-Dichloroethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,2-Dichloropropane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,3-Dichlorobenzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
1,4-Dichlorobenzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
2-Butanone	BRL		0.008	0.050	mg/L	206129	1	04/17/2015 15:54	TH
2-Hexanone	BRL		0.004	0.010	mg/L	206129	1	04/17/2015 15:54	TH
4-Methyl-2-pentanone	BRL		0.002	0.010	mg/L	206129	1	04/17/2015 15:54	TH
Acetone	0.018	J	0.003	0.050	mg/L	206129	1	04/17/2015 15:54	TH
Benzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Bromodichloromethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Bromoform	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Bromomethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Carbon disulfide	BRL		0.002	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Carbon tetrachloride	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Chlorobenzene	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Chloroethane	BRL		0.001	0.010	mg/L	206129	1	04/17/2015 15:54	TH
Chloroform	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Chloromethane	BRL		0.001	0.010	mg/L	206129	1	04/17/2015 15:54	TH
cis-1,2-Dichloroethene	0.009		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
cis-1,3-Dichloropropene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Cyclohexane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Dibromochloromethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Dichlorodifluoromethane	BRL		0.001	0.010	mg/L	206129	1	04/17/2015 15:54	TH
Ethylbenzene	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Freon-113	BRL		0.001	0.010	mg/L	206129	1	04/17/2015 15:54	TH
Isopropylbenzene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
m,p-Xylene	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Methyl acetate	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Methyl tert-butyl ether	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Methylcyclohexane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 12-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	MW-23
Project Name:	AMC Dalton	**Collection Date:**	4/15/2015 8:15:00 AM
Lab ID:	1504C24-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**				
Methylene chloride	0.001	J	0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
o-Xylene	BRL		0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Styrene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Tetrachloroethene	0.033		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Toluene	0.001	J	0.000	0.005	mg/L	206129	1	04/17/2015 15:54	TH
trans-1,2-Dichloroethene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
trans-1,3-Dichloropropene	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Trichloroethene	0.020		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Trichlorofluoromethane	BRL		0.001	0.005	mg/L	206129	1	04/17/2015 15:54	TH
Vinyl chloride	BRL		0.001	0.002	mg/L	206129	1	04/17/2015 15:54	TH
Surr: 4-Bromofluorobenzene	91.9		0	70.6-123	%REC	206129	1	04/17/2015 15:54	TH
Surr: Dibromofluoromethane	121		0	78.7-124	%REC	206129	1	04/17/2015 15:54	TH
Surr: Toluene-d8	100		0	81.3-120	%REC	206129	1	04/17/2015 15:54	TH
1,4-Dioxane by SIM GC/MS SW8260B-SIM					**(SW5030B)**				
1,4-Dioxane	0.00084	J	0.00069	0.0020	mg/L	206295	1	04/22/2015 09:57	NP
Surr: 4-Bromofluorobenzene	100		0	70.6-123	%REC	206295	1	04/22/2015 09:57	NP
Surr: Dibromofluoromethane	101		0	78-126	%REC	206295	1	04/22/2015 09:57	NP
Surr: Toluene-d8	97.9		0	77.1-119	%REC	206295	1	04/22/2015 09:57	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon Work Order Number 1504C24

Checklist completed by [signature] 4/15/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: **206129**

Sample ID: **MB-206129** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290044**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/17/2015** Seq No: **6167035**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: **206129**

Sample ID: **MB-206129** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290044**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/17/2015** Seq No: **6167035**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04695	0	50.00		93.9	70.6	123				
Surr: Dibromofluoromethane	0.05988	0	50.00		120	78.7	124				
Surr: Toluene-d8	0.04996	0	50.00		99.9	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 206129

Sample ID: **LCS-206129** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290044**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/17/2015** Seq No: **6167034**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05220	0.005	50.00		104	64.2	137				
Benzene	0.04890	0.005	50.00		97.8	72.8	128				
Chlorobenzene	0.05294	0.005	50.00		106	72.3	126				
Toluene	0.05052	0.005	50.00		101	74.9	127				
Trichloroethene	0.05499	0.005	50.00		110	70.5	134				
Surr: 4-Bromofluorobenzene	0.04644	0	50.00		92.9	70.6	123				
Surr: Dibromofluoromethane	0.05822	0	50.00		116	78.7	124				
Surr: Toluene-d8	0.04895	0	50.00		97.9	81.3	120				

Sample ID: **1504D39-001AMS** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290088**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/20/2015** Seq No: **6171622**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.184	0.25	2500		87.4	60.5	156				
Benzene	2.170	0.25	2500		86.8	70	135				
Chlorobenzene	2.418	0.25	2500		96.7	70.5	132				
Toluene	2.332	0.25	2500		93.3	70.5	137				
Trichloroethene	2.302	0.25	2500		92.1	71.8	139				
Surr: 4-Bromofluorobenzene	2.196	0	2500		87.9	70.6	123				
Surr: Dibromofluoromethane	2.284	0	2500		91.4	78.7	124				
Surr: Toluene-d8	2.393	0	2500		95.7	81.3	120				

Sample ID: **1504D39-001AMSD** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290088**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/20/2015** Seq No: **6171623**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.098	0.25	2500		83.9	60.5	156	2184	3.99	20	
Benzene	2.174	0.25	2500		87.0	70	135	2170	0.230	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: **206129**

Sample ID: **1504D39-001AMSD** Client ID: Units: **mg/L** Prep Date: **04/17/2015** Run No: **290088**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **206129** Analysis Date: **04/20/2015** Seq No: **6171623**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2.338	0.25	2500		93.5	70.5	132	2418	3.34	20	
Toluene	2.313	0.25	2500		92.5	70.5	137	2332	0.797	20	
Trichloroethene	2.304	0.25	2500		92.1	71.8	139	2302	0.065	20	
Surr: 4-Bromofluorobenzene	2.244	0	2500		89.7	70.6	123	2196	0	0	
Surr: Dibromofluoromethane	2.309	0	2500		92.4	78.7	124	2284	0	0	
Surr: Toluene-d8	2.428	0	2500		97.1	81.3	120	2393	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: 206295

Sample ID: **MB-206295** Client ID: Units: **mg/L** Prep Date: **04/22/2015** Run No: **290292**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **206295** Analysis Date: **04/22/2015** Seq No: **6173118**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04951	0	50.00		99.0	70.6	123				
Surr: Dibromofluoromethane	0.04998	0	50.00		100.0	78	126				
Surr: Toluene-d8	0.04888	0	50.00		97.8	77.1	119				

Sample ID: **LCS-206295** Client ID: Units: **mg/L** Prep Date: **04/22/2015** Run No: **290292**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **206295** Analysis Date: **04/22/2015** Seq No: **6173117**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.009720	0.0050	10.00		97.2	67	135				
Surr: 4-Bromofluorobenzene	0.04950	0	50.00		99.0	70.6	123				
Surr: Dibromofluoromethane	0.04970	0	50.00		99.4	78	126				
Surr: Toluene-d8	0.04873	0	50.00		97.5	77.1	119				

Sample ID: **1504C24-001AMS** Client ID: **MW-23** Units: **mg/L** Prep Date: **04/22/2015** Run No: **290292**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **206295** Analysis Date: **04/22/2015** Seq No: **6173121**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.09560	0.050	100.0		95.6	47.8	133				
Surr: 4-Bromofluorobenzene	0.5024	0	500.0		100	70.6	123				
Surr: Dibromofluoromethane	0.5072	0	500.0		101	78	126				
Surr: Toluene-d8	0.4884	0	500.0		97.7	77.1	119				

Sample ID: **1504C24-001AMSD** Client ID: **MW-23** Units: **mg/L** Prep Date: **04/22/2015** Run No: **290292**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **206295** Analysis Date: **04/22/2015** Seq No: **6173122**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1021	0.050	100.0		102	47.8	133	95.60	6.58	37.4	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC Dalton
Workorder: 1504C24

ANALYTICAL QC SUMMARY REPORT

BatchID: **206295**

Sample ID: **1504C24-001AMSD** Client ID: **MW-23** Units: **mg/L** Prep Date: **04/22/2015** Run No: **290292**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **206295** Analysis Date: **04/22/2015** Seq No: **6173122**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.5050	0	500.0		101	70.6	123	502.4	0	0	
Surr: Dibromofluoromethane	0.5094	0	500.0		102	78	126	507.2	0	0	
Surr: Toluene-d8	0.4891	0	500.0		97.8	77.1	119	488.4	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 28, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC International - Dalton, GA

Dear Kristen Rivera: Order No: 1503G13

Analytical Environmental Services, Inc. received 1 samples on 3/17/2015 1:37:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/28/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1503613

Date: 3/16/15 Page 1 of 1

COMPANY: EARTHCON CONSULTANTS, INC
ADDRESS: 1880 WEST OAK PKWY BLD 100 STE 106 MARIETTA, GA 30062
PHONE: 770-973-2100
FAX: 770-973-7395
SAMPLED BY: Samantha Woolf
SIGNATURE: Samantha Woolf

ANALYSIS REQUESTED: VOCs 8260

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	ASW-1 UPSTREAM	3/16/15	1650	X		SW			2
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Samantha Woolf	3-16-15 2104	1: [illegible]	3-17-15 1:06 pm
2: [illegible]	3-17-15 1:37	2: [illegible]	3/17/15 1:37
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: See Attached

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AMC INTERNATIONAL - DALTON, GA
PROJECT #: CE.20140392.00
SITE ADDRESS: DALTON, GA
SEND REPORT TO: KRISTEN PEWERA
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 2

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC International - Dalton, GA
Lab ID: 1503G13

Case Narrative

Revision:

Per Kristen Rivera via email 8/28/2015, the TCL list was reported for VOCs for all samples. In addition, results were reported in mg/L.

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-1 UPSTREAM
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 4:50:00 PM
Lab ID:	1503G13-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,1-Dichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,1-Dichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2-Dibromoethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2-Dichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,2-Dichloropropane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
2-Butanone	BRL	0.050		mg/L	204878	1	03/20/2015 16:54	CH
2-Hexanone	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
Acetone	BRL	0.050		mg/L	204878	1	03/20/2015 16:54	CH
Benzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Bromodichloromethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Bromoform	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Bromomethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Carbon disulfide	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Carbon tetrachloride	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Chlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Chloroethane	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
Chloroform	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Chloromethane	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Cyclohexane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Dibromochloromethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Dichlorodifluoromethane	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
Ethylbenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Freon-113	BRL	0.010		mg/L	204878	1	03/20/2015 16:54	CH
Isopropylbenzene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
m,p-Xylene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Methyl acetate	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Methyl tert-butyl ether	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Methylcyclohexane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Methylene chloride	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
o-Xylene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-1 UPSTREAM
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 4:50:00 PM
Lab ID:	1503G13-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Tetrachloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Toluene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Trichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Trichlorofluoromethane	BRL	0.005		mg/L	204878	1	03/20/2015 16:54	CH
Vinyl chloride	BRL	0.002		mg/L	204878	1	03/20/2015 16:54	CH
Surr: 4-Bromofluorobenzene	77.1	70.6-123		%REC	204878	1	03/20/2015 16:54	CH
Surr: Dibromofluoromethane	79.3	78.7-124		%REC	204878	1	03/20/2015 16:54	CH
Surr: Toluene-d8	85.4	81.3-120		%REC	204878	1	03/20/2015 16:54	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con Work Order Number 1503613

Checklist completed by [signature] 3/17/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 28-Aug-15

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G13

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **MB-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G13

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **MB-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04016	0	50.00		80.3	70.6	123				
Surr: Dibromofluoromethane	0.04304	0	50.00		86.1	78.7	124				
Surr: Toluene-d8	0.04703	0	50.00		94.1	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G13

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **LCS-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119097**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05122	0.005	50.00		102	64.2	137				
Benzene	0.04619	0.005	50.00		92.4	72.8	128				
Chlorobenzene	0.04819	0.005	50.00		96.4	72.3	126				
Toluene	0.05019	0.005	50.00		100	74.9	127				
Trichloroethene	0.04783	0.005	50.00		95.7	70.5	134				
Surr: 4-Bromofluorobenzene	0.04164	0	50.00		83.3	70.6	123				
Surr: Dibromofluoromethane	0.04055	0	50.00		81.1	78.7	124				
Surr: Toluene-d8	0.04576	0	50.00		91.5	81.3	120				

Sample ID: **1503G14-001AMS** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123252**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.5261	0.050	500.0		105	60.5	156				
Benzene	0.4833	0.050	500.0		96.7	70	135				
Chlorobenzene	0.4980	0.050	500.0		99.6	70.5	132				
Toluene	0.5019	0.050	500.0		100	70.5	137				
Trichloroethene	0.5151	0.050	500.0	12.52	101	71.8	139				
Surr: 4-Bromofluorobenzene	0.4072	0	500.0		81.4	70.6	123				
Surr: Dibromofluoromethane	0.4289	0	500.0		85.8	78.7	124				
Surr: Toluene-d8	0.4500	0	500.0		90.0	81.3	120				

Sample ID: **1503G14-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.4800	0.050	500.0		96.0	60.5	156	526.1	9.16	20	
Benzene	0.4570	0.050	500.0		91.4	70	135	483.3	5.59	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G13

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **1503G14-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	0.4832	0.050	500.0		96.6	70.5	132	498.0	3.02	20	
Toluene	0.4787	0.050	500.0		95.7	70.5	137	501.9	4.73	20	
Trichloroethene	0.4931	0.050	500.0	12.52	96.1	71.8	139	515.1	4.36	20	
Surr: 4-Bromofluorobenzene	0.4037	0	500.0		80.7	70.6	123	407.2	0	0	
Surr: Dibromofluoromethane	0.4239	0	500.0		84.8	78.7	124	428.9	0	0	
Surr: Toluene-d8	0.4454	0	500.0		89.1	81.3	120	450.0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 28, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: AMC International - Dalton, GA

Dear Kristen Rivera: Order No: 1503G14

Analytical Environmental Services, Inc. received 3 samples on 3/17/2015 1:37:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Chantelle Kanhai
Project Manager

Revision 8/28/2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1503614

Date: 3/16/15 Page 1 of 1

COMPANY: EarthCon Consultants, Inc
ADDRESS: 1800 West Oak Pkwy Bld 100 Ste 106 Marietta, GA 30062
PHONE: 770-973-2100
FAX: 770-973-7395
SAMPLED BY: Samantha Woolf
SIGNATURE: Samantha Woolf

ANALYSIS REQUESTED: VOCs 8260

PRESERVATION (See codes): H+I

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs 8260 (H+I)	REMARKS	No # of Containers
1	ASW-1	3/16/15	1705	X		SW	2		2
2	ASW-2	3/16/15	1725	X		SW	2		2
3	Trip Blank						2		2
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Samantha Woolf	3-16-15 2107	1: [illegible]	3-17-15 1:06pm
2: [illegible]	3-17-15 1:37	2: [illegible]	3/17/15 1:37
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: See Attached

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

PROJECT INFORMATION
PROJECT NAME: AMC International - Dalton, GA
PROJECT #: 02.20140392.00
SITE ADDRESS: Dalton, GA
SEND REPORT TO: Kristen Rivera
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 6

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.
Project: AMC International - Dalton, GA
Lab ID: 1503G14

Case Narrative

Revision:

Per Kristen Rivera via email 8/28/2015, the TCL list was reported for VOCs for all samples. In addition, results were reported in mg/L.

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-1
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 5:05:00 PM
Lab ID:	1503G14-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,1-Dichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,1-Dichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2-Dibromoethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2-Dichloroethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,2-Dichloropropane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
2-Butanone	BRL	0.050		mg/L	204878	1	03/20/2015 17:18	CH
2-Hexanone	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
Acetone	BRL	0.050		mg/L	204878	1	03/20/2015 17:18	CH
Benzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Bromodichloromethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Bromoform	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Bromomethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Carbon disulfide	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Carbon tetrachloride	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Chlorobenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Chloroethane	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
Chloroform	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Chloromethane	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
cis-1,2-Dichloroethene	0.016	0.005		mg/L	204878	1	03/20/2015 17:18	CH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Cyclohexane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Dibromochloromethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Dichlorodifluoromethane	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
Ethylbenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Freon-113	BRL	0.010		mg/L	204878	1	03/20/2015 17:18	CH
Isopropylbenzene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
m,p-Xylene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Methyl acetate	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Methyl tert-butyl ether	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Methylcyclohexane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Methylene chloride	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
o-Xylene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-1
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 5:05:00 PM
Lab ID:	1503G14-001	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Tetrachloroethene	0.23	0.050		mg/L	204878	10	03/23/2015 17:54	CH
Toluene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Trichloroethene	0.013	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Trichlorofluoromethane	BRL	0.005		mg/L	204878	1	03/20/2015 17:18	CH
Vinyl chloride	BRL	0.002		mg/L	204878	1	03/20/2015 17:18	CH
Surr: 4-Bromofluorobenzene	71.9	70.6-123		%REC	204878	1	03/20/2015 17:18	CH
Surr: 4-Bromofluorobenzene	82.7	70.6-123		%REC	204878	10	03/23/2015 17:54	CH
Surr: Dibromofluoromethane	78.9	78.7-124		%REC	204878	1	03/20/2015 17:18	CH
Surr: Dibromofluoromethane	86.6	78.7-124		%REC	204878	10	03/23/2015 17:54	CH
Surr: Toluene-d8	84.9	81.3-120		%REC	204878	1	03/20/2015 17:18	CH
Surr: Toluene-d8	90.1	81.3-120		%REC	204878	10	03/23/2015 17:54	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-2
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 5:25:00 PM
Lab ID:	1503G14-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,1,2-Trichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,1-Dichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,1-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2-Dibromoethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2-Dichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,2-Dichloropropane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,3-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
1,4-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
2-Butanone	BRL	0.050		mg/L	204878	1	03/23/2015 17:30	CH
2-Hexanone	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
4-Methyl-2-pentanone	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
Acetone	BRL	0.050		mg/L	204878	1	03/23/2015 17:30	CH
Benzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Bromodichloromethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Bromoform	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Bromomethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Carbon disulfide	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Carbon tetrachloride	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Chlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Chloroethane	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
Chloroform	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Chloromethane	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Cyclohexane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Dibromochloromethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Dichlorodifluoromethane	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
Ethylbenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Freon-113	BRL	0.010		mg/L	204878	1	03/23/2015 17:30	CH
Isopropylbenzene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
m,p-Xylene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Methyl acetate	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Methyl tert-butyl ether	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Methylcyclohexane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Methylene chloride	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
o-Xylene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	ASW-2
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/16/2015 5:25:00 PM
Lab ID:	1503G14-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Tetrachloroethene	0.032	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Toluene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Trichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Trichlorofluoromethane	BRL	0.005		mg/L	204878	1	03/23/2015 17:30	CH
Vinyl chloride	BRL	0.002		mg/L	204878	1	03/23/2015 17:30	CH
Surr: 4-Bromofluorobenzene	79.8	70.6-123		%REC	204878	1	03/23/2015 17:30	CH
Surr: Dibromofluoromethane	87.9	78.7-124		%REC	204878	1	03/23/2015 17:30	CH
Surr: Toluene-d8	89.5	81.3-120		%REC	204878	1	03/23/2015 17:30	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/17/2015
Lab ID:	1503G14-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,1,2,2-Tetrachloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,1,2-Trichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,1-Dichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,1-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2,4-Trichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2-Dibromo-3-chloropropane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2-Dibromoethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2-Dichloroethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,2-Dichloropropane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,3-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
1,4-Dichlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
2-Butanone	BRL	0.050		mg/L	204878	1	03/23/2015 20:08	AR
2-Hexanone	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
4-Methyl-2-pentanone	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
Acetone	BRL	0.050		mg/L	204878	1	03/23/2015 20:08	AR
Benzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Bromodichloromethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Bromoform	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Bromomethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Carbon disulfide	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Carbon tetrachloride	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Chlorobenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Chloroethane	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
Chloroform	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Chloromethane	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
cis-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
cis-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Cyclohexane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Dibromochloromethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Dichlorodifluoromethane	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
Ethylbenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Freon-113	BRL	0.010		mg/L	204878	1	03/23/2015 20:08	AR
Isopropylbenzene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
m,p-Xylene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Methyl acetate	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Methyl tert-butyl ether	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Methylcyclohexane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Methylene chloride	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
o-Xylene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 28-Aug-15

Client:	EarthCon Consultants, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	AMC International - Dalton, GA	**Collection Date:**	3/17/2015
Lab ID:	1503G14-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Tetrachloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Toluene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
trans-1,2-Dichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
trans-1,3-Dichloropropene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Trichloroethene	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Trichlorofluoromethane	BRL	0.005		mg/L	204878	1	03/23/2015 20:08	AR
Vinyl chloride	BRL	0.002		mg/L	204878	1	03/23/2015 20:08	AR
Surr: 4-Bromofluorobenzene	84.8	70.6-123		%REC	204878	1	03/23/2015 20:08	AR
Surr: Dibromofluoromethane	96.1	78.7-124		%REC	204878	1	03/23/2015 20:08	AR
Surr: Toluene-d8	97.2	81.3-120		%REC	204878	1	03/23/2015 20:08	AR

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthgen Work Order Number 1503G14

Checklist completed by [signature] 3/17/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G14

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **MB-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.005									
1,1,2,2-Tetrachloroethane	BRL	0.005									
1,1,2-Trichloroethane	BRL	0.005									
1,1-Dichloroethane	BRL	0.005									
1,1-Dichloroethene	BRL	0.005									
1,2,4-Trichlorobenzene	BRL	0.005									
1,2-Dibromo-3-chloropropane	BRL	0.005									
1,2-Dibromoethane	BRL	0.005									
1,2-Dichlorobenzene	BRL	0.005									
1,2-Dichloroethane	BRL	0.005									
1,2-Dichloropropane	BRL	0.005									
1,3-Dichlorobenzene	BRL	0.005									
1,4-Dichlorobenzene	BRL	0.005									
2-Butanone	BRL	0.050									
2-Hexanone	BRL	0.010									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.005									
Bromodichloromethane	BRL	0.005									
Bromoform	BRL	0.005									
Bromomethane	BRL	0.005									
Carbon disulfide	BRL	0.005									
Carbon tetrachloride	BRL	0.005									
Chlorobenzene	BRL	0.005									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.005									
Chloromethane	BRL	0.010									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G14

ANALYTICAL QC SUMMARY REPORT

BatchID: 204878

Sample ID: **MB-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	0.005									
cis-1,3-Dichloropropene	BRL	0.005									
Cyclohexane	BRL	0.005									
Dibromochloromethane	BRL	0.005									
Dichlorodifluoromethane	BRL	0.010									
Ethylbenzene	BRL	0.005									
Freon-113	BRL	0.010									
Isopropylbenzene	BRL	0.005									
m,p-Xylene	BRL	0.005									
Methyl acetate	BRL	0.005									
Methyl tert-butyl ether	BRL	0.005									
Methylcyclohexane	BRL	0.005									
Methylene chloride	BRL	0.005									
o-Xylene	BRL	0.005									
Styrene	BRL	0.005									
Tetrachloroethene	BRL	0.005									
Toluene	BRL	0.005									
trans-1,2-Dichloroethene	BRL	0.005									
trans-1,3-Dichloropropene	BRL	0.005									
Trichloroethene	BRL	0.005									
Trichlorofluoromethane	BRL	0.005									
Vinyl chloride	BRL	0.002									
Surr: 4-Bromofluorobenzene	0.04016	0	50.00		80.3	70.6	123				
Surr: Dibromofluoromethane	0.04304	0	50.00		86.1	78.7	124				
Surr: Toluene-d8	0.04703	0	50.00		94.1	81.3	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G14

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **LCS-204878** Client ID: Units: **mg/L** Prep Date: **03/20/2015** Run No: **288051**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/20/2015** Seq No: **6119097**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05122	0.005	50.00		102	64.2	137				
Benzene	0.04619	0.005	50.00		92.4	72.8	128				
Chlorobenzene	0.04819	0.005	50.00		96.4	72.3	126				
Toluene	0.05019	0.005	50.00		100	74.9	127				
Trichloroethene	0.04783	0.005	50.00		95.7	70.5	134				
Surr: 4-Bromofluorobenzene	0.04164	0	50.00		83.3	70.6	123				
Surr: Dibromofluoromethane	0.04055	0	50.00		81.1	78.7	124				
Surr: Toluene-d8	0.04576	0	50.00		91.5	81.3	120				

Sample ID: **1503G14-001AMS** Client ID: **ASW-1** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123252**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.5261	0.050	500.0		105	60.5	156				
Benzene	0.4833	0.050	500.0		96.7	70	135				
Chlorobenzene	0.4980	0.050	500.0		99.6	70.5	132				
Toluene	0.5019	0.050	500.0		100	70.5	137				
Trichloroethene	0.5151	0.050	500.0	12.52	101	71.8	139				
Surr: 4-Bromofluorobenzene	0.4072	0	500.0		81.4	70.6	123				
Surr: Dibromofluoromethane	0.4289	0	500.0		85.8	78.7	124				
Surr: Toluene-d8	0.4500	0	500.0		90.0	81.3	120				

Sample ID: **1503G14-001AMSD** Client ID: **ASW-1** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.4800	0.050	500.0		96.0	60.5	156	526.1	9.16	20	
Benzene	0.4570	0.050	500.0		91.4	70	135	483.3	5.59	20	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 28-Aug-15

Client: EarthCon Consultants, Inc.
Project Name: AMC International - Dalton, GA
Workorder: 1503G14

ANALYTICAL QC SUMMARY REPORT

BatchID: **204878**

Sample ID: **1503G14-001AMSD** Client ID: **ASW-1** Units: **mg/L** Prep Date: **03/20/2015** Run No: **288216**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204878** Analysis Date: **03/23/2015** Seq No: **6123253**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	0.4832	0.050	500.0		96.6	70.5	132	498.0	3.02	20	
Toluene	0.4787	0.050	500.0		95.7	70.5	137	501.9	4.73	20	
Trichloroethene	0.4931	0.050	500.0	12.52	96.1	71.8	139	515.1	4.36	20	
Surr: 4-Bromofluorobenzene	0.4037	0	500.0		80.7	70.6	123	407.2	0	0	
Surr: Dibromofluoromethane	0.4239	0	500.0		84.8	78.7	124	428.9	0	0	
Surr: Toluene-d8	0.4454	0	500.0		89.1	81.3	120	450.0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

GROUNDWATER ANALYTICAL DATA REVIEW

APPENDIX C: Groundwater Analytical Data Review

A groundwater analytical data review was conducted for the June 2015 sampling event. Chain of Custody (COC) records, holding times, method blanks, surrogate recoveries, laboratory control samples (LCS), site specific matrix spikes (MS) and matrix spike duplicates (MSD), site specific matrix duplicates (MD), field blank and field duplicate data were included in the review. The COC records are acceptable except the samplers signature was not on the COC in lab report 92255012.

The QC data for the VOC analyses are within laboratory QC limits except as noted below.

- The MS recovery values for cis-1,2-DCE, PCE, and TCE in one (DMW-5) of the three site specific MS samples were high. Based on these high recoveries, the VOC results from monitoring well DMW-5 may be biased high. Because the other two MS/MSD results were within laboratory limits, this does not appear to be a site wide problem.
- Equipment blank EB-3 contained PCE and cis-1,2-DCE at concentrations of 0.0002 mg/L and 0.016 mg/L, respectively. This is indicative of cross contamination from sampling equipment. There was not a trip blank with this shipment, so cross contamination during shipment can't be ruled out.
- Equipment blank EB-4 contained PCE at 1.5 mg/L. This is indicative of cross contamination from sampling equipment.

The QC data for the dissolved gases (methane, ethane, and ethene) are within laboratory QC limits except as noted below.

- Methane was detected in most of the method blank samples at concentrations below the practical quantitation limit. The concentrations ranged from 0.97 to 4.9 µg/L. Results less than five times the blank value are impacted by the method blank results and may be biased high or false positive. Any results greater than five times the blank value are usable.
- Ethene was detected in one method blank at a concentration of 3.3 µg/L. This data impacts positive sample results that were analyzed in the batch with this blank. The only impacted sample result is ethene in sample OBG-W8, which may be biased high or false positive.
- The RPD of the matrix duplicate result for DMW-7 is slightly above laboratory QC limits. The overall data set is not significantly affected since only one of the MD was impacted.

The QC data for the wet chemistry tests including alkalinity, chloride, sulfate, TOC, sulfide and nitrate are within laboratory QC limits except as noted below.

- Sulfide recoveries in two MS/MSD samples (AMW-14 and AMW-20) were high indicating a high bias of the associated data.
- Two nitrate samples were analyzed out of holding time including samples AMW-16 and AMW-2. Results are estimated.
- Nitrate recoveries in DMW-3 MS/MSD were slightly low indicating a potential low bias.

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July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Greenwood Certification IDs
816 Durst Avenue East, Greenwood, SC 29649
South Carolina Laboratory ID #: 24562
North Carolina Divison of Water Resources Certification number 25
Florida Certification number E87633
Virginia VELAP ID: 460250
Asbestos NVLAP accreditation: 101410-0

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SAMPLE SUMMARY

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92254528001	**AMW-14**	Water	06/15/15 12:50	06/16/15 10:40
92254528002	**DMW-15**	Water	06/15/15 11:25	06/16/15 10:40
92254528003	**DMW-14D**	Water	06/15/15 11:55	06/16/15 10:40
92254528004	**Trip Blank 1**	Water	06/15/15 00:00	06/16/15 10:40

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92254528001	**AMW-14**	RSK 175	JRB	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254528002	**DMW-15**	RSK 175	JRB	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254528003	**DMW-14D**	RSK 175	JRB	3	PASI-M
		EPA 300.0	CDC	2	PASI-G
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	MLS	1	PASI-A
		SM 4500-S2D	MAB	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254528004	**Trip Blank 1**	EPA 8260	SNP	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Sample: AMW-14 **Lab ID: 92254528001** Collected: 06/15/15 12:50 Received: 06/16/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/18/15 18:37	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/18/15 18:37	74-85-1	
Methane	**2.7J**	ug/L	10.0	0.63	1		06/18/15 18:37	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**10.9**	mg/L	1.0	0.10	1		06/24/15 20:51	16887-00-6	
Sulfate	**1.9**	mg/L	1.0	0.40	1		06/24/15 20:51	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/19/15 21:04	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/19/15 21:04	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/19/15 21:04	75-35-4	
cis-1,2-Dichloroethene	**0.10**	mg/L	0.0010	0.00019	1		06/19/15 21:04	156-59-2	
trans-1,2-Dichloroethene	**0.00073J**	mg/L	0.0010	0.00049	1		06/19/15 21:04	156-60-5	
Tetrachloroethene	**1.5**	mg/L	0.012	0.0058	12.5		06/22/15 13:32	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/19/15 21:04	71-55-6	
Trichloroethene	**0.078**	mg/L	0.0010	0.00047	1		06/19/15 21:04	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/19/15 21:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/19/15 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		06/19/15 21:04	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/19/15 21:04	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/18/15 14:12	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		06/18/15 14:12	17060-07-0	
Toluene-d8 (S)	102	%	50-150		1		06/18/15 14:12	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**45.3**	mg/L	5.0	1.0	1		06/21/15 22:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.40**	mg/L	0.020	0.010	1		06/17/15 06:25		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.5**	mg/L	1.0	0.50	1		06/21/15 06:33	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Sample: DMW-15 **Lab ID: 92254528002** Collected: 06/15/15 11:25 Received: 06/16/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/18/15 18:46	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/18/15 18:46	74-85-1	
Methane	**3.3J**	ug/L	10.0	0.63	1		06/18/15 18:46	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**4.2**	mg/L	1.0	0.10	1		06/24/15 22:22	16887-00-6	
Sulfate	**2.7**	mg/L	1.0	0.40	1		06/24/15 22:22	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/19/15 21:23	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/19/15 21:23	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/19/15 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/19/15 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/19/15 21:23	156-60-5	
Tetrachloroethene	**0.0016**	mg/L	0.0010	0.00046	1		06/19/15 21:23	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/19/15 21:23	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/19/15 21:23	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/19/15 21:23	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/19/15 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		06/19/15 21:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/19/15 21:23	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/18/15 14:33	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		06/18/15 14:33	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		06/18/15 14:33	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**70.4**	mg/L	5.0	1.0	1		06/21/15 22:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.14**	mg/L	0.020	0.010	1		06/17/15 06:14		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/21/15 06:42	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Sample: DMW-14D **Lab ID: 92254528003** Collected: 06/15/15 11:55 Received: 06/16/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/18/15 18:54	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/18/15 18:54	74-85-1	
Methane	**5.2J**	ug/L	10.0	0.63	1		06/18/15 18:54	74-82-8	
3000 IC Anions 28 Days, GWD	Analytical Method: EPA 300.0								
Chloride	**1.5**	mg/L	1.0	0.10	1		06/24/15 22:53	16887-00-6	
Sulfate	**10.8**	mg/L	1.0	0.40	1		06/24/15 22:53	14808-79-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/19/15 21:41	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/19/15 21:41	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/19/15 21:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/19/15 21:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/19/15 21:41	156-60-5	
Tetrachloroethene	**0.00096J**	mg/L	0.0010	0.00046	1		06/19/15 21:41	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/19/15 21:41	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/19/15 21:41	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/19/15 21:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/19/15 21:41	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		06/19/15 21:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/19/15 21:41	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/18/15 14:55	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		06/18/15 14:55	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1		06/18/15 14:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**257**	mg/L	5.0	1.0	1		06/21/15 22:43		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.088**	mg/L	0.020	0.010	1		06/17/15 06:22		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.68J**	mg/L	1.0	0.50	1		06/21/15 06:55	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Sample: Trip Blank 1 **Lab ID: 92254528004** Collected: 06/15/15 00:00 Received: 06/16/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/19/15 21:59	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/19/15 21:59	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/19/15 21:59	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/19/15 21:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/19/15 21:59	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/19/15 21:59	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/19/15 21:59	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/19/15 21:59	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/19/15 21:59	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/19/15 21:59	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		06/19/15 21:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/19/15 21:59	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: AIR/23507 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1998567 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/18/15 15:39	
Ethene	ug/L	ND	10.0	06/18/15 15:39	
Methane	ug/L	1.5J	10.0	06/18/15 15:39	

LABORATORY CONTROL SAMPLE & LCSD: 1998568 1998569

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	108	112	95	99	85-115	4	20	
Ethene	ug/L	106	101	105	95	99	85-115	4	20	
Methane	ug/L	60.7	57.8	59.8	95	99	85-115	3	20	

SAMPLE DUPLICATE: 1998570

Parameter	Units	10310589001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	0.68J		20	

SAMPLE DUPLICATE: 1998571

Parameter	Units	92254433003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	1.1J		20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: GWD/2239 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 3000 IC Anions, GWD
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1492203 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/24/15 19:49	
Sulfate	mg/L	ND	1.0	06/24/15 19:49	

LABORATORY CONTROL SAMPLE: 1492204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1492205 1492206

Parameter	Units	92254528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.9	50	50	60.4	60.6	99	99	90-110	0	20	
Sulfate	mg/L	1.9	50	50	51.2	51.3	99	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1493437 1493438

Parameter	Units	92255281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.6	50	50	4.1	4.1	1	1	90-110	0	20	M1
Sulfate	mg/L	15.1	50	50	15.5	15.6	1	1	90-110	0	20	M1

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: MSV/32234 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92254528001, 92254528002, 92254528003, 92254528004

METHOD BLANK: 1490117 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003, 92254528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/19/15 17:07	
1,1-Dichloroethane	mg/L	ND	0.0010	06/19/15 17:07	
1,1-Dichloroethene	mg/L	ND	0.0010	06/19/15 17:07	
1,2-Dichloroethane	mg/L	ND	0.0010	06/19/15 17:07	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/19/15 17:07	
Tetrachloroethene	mg/L	ND	0.0010	06/19/15 17:07	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/19/15 17:07	
Trichloroethene	mg/L	ND	0.0010	06/19/15 17:07	
Vinyl chloride	mg/L	ND	0.0010	06/19/15 17:07	
1,2-Dichloroethane-d4 (S)	%	90	70-130	06/19/15 17:07	
4-Bromofluorobenzene (S)	%	99	70-130	06/19/15 17:07	
Toluene-d8 (S)	%	97	70-130	06/19/15 17:07	

LABORATORY CONTROL SAMPLE: 1490118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.041	83	70-130	
1,1-Dichloroethane	mg/L	.05	0.045	90	70-130	
1,1-Dichloroethene	mg/L	.05	0.049	98	70-132	
1,2-Dichloroethane	mg/L	.05	0.041	82	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.044	88	70-131	
Tetrachloroethene	mg/L	.05	0.046	92	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.046	92	70-130	
Trichloroethene	mg/L	.05	0.047	94	70-130	
Vinyl chloride	mg/L	.05	0.046	93	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1490119

Parameter	Units	92254528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	121	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.024	119	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.024	118	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	103	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.024	119	70-130	
Tetrachloroethene	mg/L	0.0016	.02	0.021	98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

MATRIX SPIKE SAMPLE: 1490119

Parameter	Units	92254528002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.025	127	70-130	
Trichloroethene	mg/L	ND	.02	0.021	106	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	118	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1490120

Parameter	Units	92254528003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	0.00096J	0.0012		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	102	9		
4-Bromofluorobenzene (S)	%	101	102	1		
Toluene-d8 (S)	%	100	103	3		

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: MSV/32196 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1488197 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/18/15 11:23	
1,2-Dichloroethane-d4 (S)	%	105	50-150	06/18/15 11:23	
Toluene-d8 (S)	%	102	50-150	06/18/15 11:23	

LABORATORY CONTROL SAMPLE: 1488198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.022	108	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			101	50-150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: WET/38238 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1489394 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/21/15 17:45	

LABORATORY CONTROL SAMPLE: 1489395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489396 1489397

Parameter	Units	92253566008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	416	50	50	455	458	79	86	90-110	1	4	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490691 1490692

Parameter	Units	92253989011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	210	50	50	2330	2400	4248	4373	90-110	3	4	M1

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: WET/38196 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1488070 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/18/15 15:45	

LABORATORY CONTROL SAMPLE: 1488071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488072 1488073

Parameter	Units	92254528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.62	0.62	123	123	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488074 1488075

Parameter	Units	92254780007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.55	0.55	109	109	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: WETA/23326 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1486645 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/17/15 06:04	

LABORATORY CONTROL SAMPLE: 1486646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486647 1486648

Parameter	Units	92254433003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.44	2.5	2.5	2.8	2.8	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1486649 1486650

Parameter	Units	92254528002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.14	2.5	2.5	2.5	2.5	94	94	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

QC Batch: WETA/23402 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92254528001, 92254528002, 92254528003

METHOD BLANK: 1490636 Matrix: Water
Associated Lab Samples: 92254528001, 92254528002, 92254528003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/21/15 03:44	

LABORATORY CONTROL SAMPLE: 1490637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490638 1490639

Parameter	Units	92254743007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.6	25.6	102	102	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490640 1490641

Parameter	Units	92255088001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	25	25	27.4	27.2	104	103	90-110	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Greenwood
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92254528001	**AMW-14**	RSK 175	AIR/23507		
92254528002	**DMW-15**	RSK 175	AIR/23507		
92254528003	**DMW-14D**	RSK 175	AIR/23507		
92254528001	**AMW-14**	EPA 300.0	GWD/2239		
92254528002	**DMW-15**	EPA 300.0	GWD/2239		
92254528003	**DMW-14D**	EPA 300.0	GWD/2239		
92254528001	**AMW-14**	EPA 8260	MSV/32234		
92254528002	**DMW-15**	EPA 8260	MSV/32234		
92254528003	**DMW-14D**	EPA 8260	MSV/32234		
92254528004	**Trip Blank 1**	EPA 8260	MSV/32234		
92254528001	**AMW-14**	EPA 8260B Mod.	MSV/32196		
92254528002	**DMW-15**	EPA 8260B Mod.	MSV/32196		
92254528003	**DMW-14D**	EPA 8260B Mod.	MSV/32196		
92254528001	**AMW-14**	SM 2320B	WET/38238		
92254528002	**DMW-15**	SM 2320B	WET/38238		
92254528003	**DMW-14D**	SM 2320B	WET/38238		
92254528001	**AMW-14**	SM 4500-S2D	WET/38196		
92254528002	**DMW-15**	SM 4500-S2D	WET/38196		
92254528003	**DMW-14D**	SM 4500-S2D	WET/38196		
92254528001	**AMW-14**	EPA 353.2	WETA/23326		
92254528002	**DMW-15**	EPA 353.2	WETA/23326		
92254528003	**DMW-14D**	EPA 353.2	WETA/23326		
92254528001	**AMW-14**	SM 5310B	WETA/23402		
92254528002	**DMW-15**	SM 5310B	WETA/23402		
92254528003	**DMW-14D**	SM 5310B	WETA/23402		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: (IR Gun#3 -130265963) **Type of Ice:** (Wet) Blue None ☑ Samples on Ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.5 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/16 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review:	NMG	Date:	6-16-15
SRF Review:	NMG	Date:	6-16-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92254528

92254528

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902591

Section A Required Client Information:

Company: EARTHCON
Address: 1880 WEST OAK PKWY BLD 100 STE 106 MARIETTA GA
Email To: krivera@earthcon.com
Phone: 770-973-2100 Fax:
Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC DALTON
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address: same as client info
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH+Zn Acetate	$Na_2S_2O_3$	Methanol	Other 1:1 PO_4	VOC 8260	1,4 Dioxane	Methane, Ethane, Ethene	TOC	Sulfide	Cr+ SO_4^{2-}	NO_3^-	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Analysis Test ↓																	Y/N ↓	N	N	N	N	Y	N	N	
1	DMW-14	WT	G	6-15-15	—	6-15-15	12:50	~~5~~	15				✓	✓			✓		3	3	3	3	1	1	1	
2	DMW-15	WT	G	6/15/15	—	6/15/15	11:25	~~5~~	15				✓	✓			✓		3	3	3	3	1	1	1	
3	DMW-14D	WT	G	6/15/15	—	6/15/15	11:55	~~5~~	15				✓	✓			✓		3	3	3	3	1	1	1	
4	TripBlank1	OT				6/15/15	—	—	2				✓						2							
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

* SEE QXSP

92254528

* Constituents to report: 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, 1,4-dioxane, cis-1,2-DCE, PCE, trans-1,2-DCE, TCE and vinyl chloride

001
002
003
004

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Danielle M Edwards	6/15/15	4:00	O. Tutty	6-15-15	4:00				
				Matt Stewart AVL	6/16/15	1640	3.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Danielle Edwards

SIGNATURE of SAMPLER: Danielle Edwards DATE Signed (MM/DD/YY): 06/15/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92254780001	**OBG-W5**	Water	06/15/15 16:00	06/17/15 10:00
92254780002	**AMW-17**	Water	06/15/15 16:45	06/17/15 10:00
92254780003	**AMW-18**	Water	06/15/15 19:05	06/17/15 10:00
92254780004	**AMW-4**	Water	06/15/15 18:15	06/17/15 10:00
92254780005	**AMW-19**	Water	06/16/15 13:30	06/17/15 10:00
92254780006	**AMW-7**	Water	06/16/15 12:05	06/17/15 10:00
92254780007	**OBG-W8**	Water	06/16/15 11:50	06/17/15 10:00

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92254780001	**OBG-W5**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780002	**AMW-17**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780003	**AMW-18**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780004	**AMW-4**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780005	**AMW-19**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780006	**AMW-7**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92254780007	**OBG-W8**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: OBG-W5 **Lab ID: 92254780001** Collected: 06/15/15 16:00 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 22:24	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 22:24	74-85-1	
Methane	**1.4J**	ug/L	10.0	0.63	1		06/22/15 22:24	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0016**	mg/L	0.0010	0.00032	1		06/20/15 05:35	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 05:35	107-06-2	
1,1-Dichloroethene	**0.0014**	mg/L	0.0010	0.00056	1		06/20/15 05:35	75-35-4	
cis-1,2-Dichloroethene	**0.19**	mg/L	0.0010	0.00019	1		06/20/15 05:35	156-59-2	
trans-1,2-Dichloroethene	**0.00058J**	mg/L	0.0010	0.00049	1		06/20/15 05:35	156-60-5	
Tetrachloroethene	**4.8**	mg/L	0.050	0.023	50		06/22/15 13:49	127-18-4	
1,1,1-Trichloroethane	**0.0019**	mg/L	0.0010	0.00048	1		06/20/15 05:35	71-55-6	
Trichloroethene	**0.12**	mg/L	0.0010	0.00047	1		06/20/15 05:35	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 05:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/20/15 05:35	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		06/20/15 05:35	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/20/15 05:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 10:49	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		06/29/15 10:49	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/29/15 10:49	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	5.0	1		06/25/15 17:13		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.5J**	mg/L	5.0	2.5	1		06/29/15 09:39	16887-00-6	
Sulfate	**4.7J**	mg/L	5.0	2.5	1		06/29/15 09:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.25**	mg/L	0.020	0.010	1		06/17/15 15:25		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/21/15 19:57	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: AMW-17 **Lab ID: 92254780002** Collected: 06/15/15 16:45 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 22:41	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 22:41	74-85-1	
Methane	ND	ug/L	10.0	0.63	1		06/22/15 22:41	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 05:54	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 05:54	107-06-2	
1,1-Dichloroethene	**0.0018**	mg/L	0.0010	0.00056	1		06/20/15 05:54	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 05:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 05:54	156-60-5	
Tetrachloroethene	**0.0083**	mg/L	0.0010	0.00046	1		06/20/15 05:54	127-18-4	
1,1,1-Trichloroethane	**0.011**	mg/L	0.0010	0.00048	1		06/20/15 05:54	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 05:54	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 05:54	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 05:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		06/20/15 05:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/20/15 05:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 11:10	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		06/29/15 11:10	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/29/15 11:10	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**125**	mg/L	5.0	5.0	1		06/25/15 17:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.1J**	mg/L	5.0	2.5	1		06/29/15 10:37	16887-00-6	
Sulfate	**16.3**	mg/L	5.0	2.5	1		06/29/15 10:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.30**	mg/L	0.020	0.010	1		06/17/15 15:30		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.61J**	mg/L	1.0	0.50	1		06/21/15 20:08	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: AMW-18 **Lab ID: 92254780003** Collected: 06/15/15 19:05 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 22:49	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 22:49	74-85-1	
Methane	**1.8J**	ug/L	10.0	0.63	1		06/22/15 22:49	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 06:12	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 06:12	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 06:12	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 06:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 06:12	156-60-5	
Tetrachloroethene	**0.0025**	mg/L	0.0010	0.00046	1		06/20/15 06:12	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 06:12	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 06:12	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 06:12	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 06:12	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		06/20/15 06:12	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/20/15 06:12	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 11:31	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	50-150		1		06/29/15 11:31	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/29/15 11:31	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**138**	mg/L	5.0	5.0	1		06/25/15 17:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3J**	mg/L	5.0	2.5	1		06/29/15 10:57	16887-00-6	
Sulfate	**6.0**	mg/L	5.0	2.5	1		06/29/15 10:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.088**	mg/L	0.020	0.010	1		06/17/15 15:32		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.70J**	mg/L	1.0	0.50	1		06/21/15 20:18	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: AMW-4 **Lab ID: 92254780004** Collected: 06/15/15 18:15 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 22:57	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 22:57	74-85-1	
Methane	**1.7J**	ug/L	10.0	0.63	1		06/22/15 22:57	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 06:30	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 06:30	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 06:30	156-60-5	
Tetrachloroethene	**0.00065J**	mg/L	0.0010	0.00046	1		06/20/15 06:30	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 06:30	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 06:30	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 06:30	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 06:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		06/20/15 06:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/20/15 06:30	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 11:51	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	50-150		1		06/29/15 11:51	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		06/29/15 11:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**10.4**	mg/L	5.0	5.0	1		06/25/15 17:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 11:16	16887-00-6	
Sulfate	ND	mg/L	5.0	2.5	1		06/29/15 11:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.073**	mg/L	0.020	0.010	1		06/17/15 15:31		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/21/15 20:49	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: AMW-19 **Lab ID: 92254780005** Collected: 06/16/15 13:30 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 23:05	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 23:05	74-85-1	
Methane	**1.3J**	ug/L	10.0	0.63	1		06/22/15 23:05	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 06:48	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 06:48	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 06:48	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 06:48	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 06:48	156-60-5	
Tetrachloroethene	**0.00051J**	mg/L	0.0010	0.00046	1		06/20/15 06:48	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 06:48	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 06:48	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 06:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/20/15 06:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/20/15 06:48	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/20/15 06:48	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 23:36	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		06/29/15 23:36	17060-07-0	
Toluene-d8 (S)	80	%	50-150		1		06/29/15 23:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**6.8**	mg/L	5.0	5.0	1		06/25/15 17:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 11:36	16887-00-6	
Sulfate	ND	mg/L	5.0	2.5	1		06/29/15 11:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.12**	mg/L	0.020	0.010	1		06/17/15 15:24		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/21/15 21:00	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: AMW-7 **Lab ID: 92254780006** Collected: 06/16/15 12:05 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 23:13	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/22/15 23:13	74-85-1	
Methane	**1.2J**	ug/L	10.0	0.63	1		06/22/15 23:13	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 07:07	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 07:07	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 07:07	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 07:07	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 07:07	156-60-5	
Tetrachloroethene	**0.0075**	mg/L	0.0010	0.00046	1		06/20/15 07:07	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 07:07	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 07:07	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 07:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 07:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/20/15 07:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/20/15 07:07	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/29/15 23:56	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		06/29/15 23:56	17060-07-0	
Toluene-d8 (S)	79	%	50-150		1		06/29/15 23:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**45.4**	mg/L	5.0	5.0	1		06/25/15 17:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 11:55	16887-00-6	
Sulfate	**4.4J**	mg/L	5.0	2.5	1		06/29/15 11:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.10**	mg/L	0.020	0.010	1		06/17/15 15:33		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.50J**	mg/L	1.0	0.50	1		06/21/15 21:10	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Sample: OBG-W8 **Lab ID: 92254780007** Collected: 06/16/15 11:50 Received: 06/17/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/22/15 23:21	74-84-0	
Ethene	**1.2J**	ug/L	10.0	0.47	1		06/22/15 23:21	74-85-1	
Methane	**2.4J**	ug/L	10.0	0.63	1		06/22/15 23:21	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 07:25	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 07:25	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 07:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 07:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 07:25	156-60-5	
Tetrachloroethene	**0.0023**	mg/L	0.0010	0.00046	1		06/20/15 07:25	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 07:25	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/20/15 07:25	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 07:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/20/15 07:25	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/20/15 07:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/20/15 07:25	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 00:17	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	50-150		1		06/30/15 00:17	17060-07-0	
Toluene-d8 (S)	78	%	50-150		1		06/30/15 00:17	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**62.7**	mg/L	5.0	5.0	1		06/25/15 17:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/18/15 15:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.7**	mg/L	5.0	2.5	1		06/29/15 12:14	16887-00-6	
Sulfate	**49.2**	mg/L	5.0	2.5	1		06/29/15 12:14	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.12**	mg/L	0.020	0.010	1		06/17/15 15:19		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.4**	mg/L	1.0	0.50	1		06/21/15 21:21	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: AIR/23533 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 2002604 Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/22/15 21:11	
Ethene	ug/L	3.3J	10.0	06/22/15 21:11	
Methane	ug/L	2.9J	10.0	06/22/15 21:11	

LABORATORY CONTROL SAMPLE & LCSD: 2002605 2002606

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	103	117	91	103	85-115	12	20	
Ethene	ug/L	106	96.1	111	91	104	85-115	14	20	
Methane	ug/L	60.7	54.7	63.4	90	105	85-115	15	20	

SAMPLE DUPLICATE: 2002607

Parameter	Units	92254780001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	1.4J	1.6J		20	

SAMPLE DUPLICATE: 2002622

Parameter	Units	92255049001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	75.8	83.4	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: MSV/32236 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1490181 Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/20/15 04:40	
1,1-Dichloroethane	mg/L	ND	0.0010	06/20/15 04:40	
1,1-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:40	
1,2-Dichloroethane	mg/L	ND	0.0010	06/20/15 04:40	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:40	
Tetrachloroethene	mg/L	ND	0.0010	06/20/15 04:40	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:40	
Trichloroethene	mg/L	ND	0.0010	06/20/15 04:40	
Vinyl chloride	mg/L	ND	0.0010	06/20/15 04:40	
1,2-Dichloroethane-d4 (S)	%	93	70-130	06/20/15 04:40	
4-Bromofluorobenzene (S)	%	98	70-130	06/20/15 04:40	
Toluene-d8 (S)	%	98	70-130	06/20/15 04:40	

LABORATORY CONTROL SAMPLE: 1490182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.049	99	70-130	
1,1-Dichloroethane	mg/L	.05	0.050	100	70-130	
1,1-Dichloroethene	mg/L	.05	0.058	117	70-132	
1,2-Dichloroethane	mg/L	.05	0.045	90	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	99	70-131	
Tetrachloroethene	mg/L	.05	0.051	101	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.053	105	70-130	
Trichloroethene	mg/L	.05	0.052	103	70-130	
Vinyl chloride	mg/L	.05	0.054	107	50-150	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490183 1490184

Parameter	Units	92254982005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	27.3 ug/L	.02	.02	0.058	0.057	155	151	70-130	1	30	M1
1,1-Dichloroethane	mg/L	35.2 ug/L	.02	.02	0.062	0.062	136	136	70-130	0	30	M1
1,1-Dichloroethene	mg/L	198 ug/L	.02	.02	0.22	0.21	99	68	70-166	3	30	E,M1
1,2-Dichloroethane	mg/L	1.9 ug/L	.02	.02	0.023	0.023	108	104	70-130	3	30	
cis-1,2-Dichloroethene	mg/L	ND	.02	.02	0.026	0.024	128	120	70-130	7	30	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490183 1490184

Parameter	Units	92254982005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	mg/L	ND	.02	.02	0.024	0.023	118	113	70-130	5	30	
trans-1,2-Dichloroethene	mg/L	ND	.02	.02	0.027	0.025	135	124	70-130	9	30	M1
Trichloroethene	mg/L	ND	.02	.02	0.024	0.022	115	108	69-151	6	30	
Vinyl chloride	mg/L	ND	.02	.02	0.025	0.023	124	113	70-130	9	30	
1,2-Dichloroethane-d4 (S)	%						100	95	70-130			
4-Bromofluorobenzene (S)	%						104	106	70-130			
Toluene-d8 (S)	%						102	100	70-130			

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: MSV/32345 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004

METHOD BLANK: 1496847 Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/29/15 10:29	
1,2-Dichloroethane-d4 (S)	%	105	50-150	06/29/15 10:29	
Toluene-d8 (S)	%	99	50-150	06/29/15 10:29	

LABORATORY CONTROL SAMPLE: 1496848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.023	114	71-125	
1,2-Dichloroethane-d4 (S)	%			101	50-150	
Toluene-d8 (S)	%			98	50-150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: MSV/32365 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92254780005, 92254780006, 92254780007

METHOD BLANK: 1497292 Matrix: Water
Associated Lab Samples: 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/29/15 17:25	
1,2-Dichloroethane-d4 (S)	%	117	50-150	06/29/15 17:25	
Toluene-d8 (S)	%	95	50-150	06/29/15 17:25	

LABORATORY CONTROL SAMPLE: 1497293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	97	71-125	
1,2-Dichloroethane-d4 (S)	%			114	50-150	
Toluene-d8 (S)	%			97	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497294 1497295

Parameter	Units	92254982005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	131 ug/L	.05	.05	0.17	0.19	88	111	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						118	117	50-150		150	
Toluene-d8 (S)	%						92	92	50-150		150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: WET/31588 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1252959 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/25/15 16:17	

LABORATORY CONTROL SAMPLE: 1252960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 1252961

Parameter	Units	35194382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	230	233	1	20	

SAMPLE DUPLICATE: 1252962

Parameter	Units	92254460006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	146	149	2	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: WET/38196 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1488070 Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/18/15 15:45	

LABORATORY CONTROL SAMPLE: 1488071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.51	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488072 1488073

Parameter	Units	92254528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.62	0.62	123	123	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488074 1488075

Parameter	Units	92254780007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.55	0.55	109	109	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: WETA/47725 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1255492 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 09:01	
Sulfate	mg/L	ND	5.0	06/29/15 09:01	

LABORATORY CONTROL SAMPLE: 1255493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255494 1255495

Parameter	Units	92254780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5J	50	50	51.4	51.4	96	96	90-110	0	20	
Sulfate	mg/L	4.7J	50	50	51.8	51.9	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255496 1255497

Parameter	Units	92255012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	53.7	55.9	96	101	90-110	4	20	
Sulfate	mg/L	2.5J	50	50	48.9	51.1	93	97	90-110	4	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: WETA/23344 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1487376 | Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/17/15 15:15	

LABORATORY CONTROL SAMPLE: 1487377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1487378 1487379

Parameter	Units	92254780007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.12	2.5	2.5	2.8	2.8	106	106	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

QC Batch: WETA/23405 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

METHOD BLANK: 1490679 Matrix: Water
Associated Lab Samples: 92254780001, 92254780002, 92254780003, 92254780004, 92254780005, 92254780006, 92254780007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/21/15 18:37	

LABORATORY CONTROL SAMPLE: 1490680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490681 1490682

Parameter	Units	92255106002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.59J	25	25	25.8	25.6	101	100	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490683 1490684

Parameter	Units	92255262001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	26.0	26.0	103	103	90-110	0	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92254780001	**OBG-W5**	RSK 175	AIR/23533		
92254780002	**AMW-17**	RSK 175	AIR/23533		
92254780003	**AMW-18**	RSK 175	AIR/23533		
92254780004	**AMW-4**	RSK 175	AIR/23533		
92254780005	**AMW-19**	RSK 175	AIR/23533		
92254780006	**AMW-7**	RSK 175	AIR/23533		
92254780007	**OBG-W8**	RSK 175	AIR/23533		
92254780001	**OBG-W5**	EPA 8260	MSV/32236		
92254780002	**AMW-17**	EPA 8260	MSV/32236		
92254780003	**AMW-18**	EPA 8260	MSV/32236		
92254780004	**AMW-4**	EPA 8260	MSV/32236		
92254780005	**AMW-19**	EPA 8260	MSV/32236		
92254780006	**AMW-7**	EPA 8260	MSV/32236		
92254780007	**OBG-W8**	EPA 8260	MSV/32236		
92254780001	**OBG-W5**	EPA 8260B Mod.	MSV/32345		
92254780002	**AMW-17**	EPA 8260B Mod.	MSV/32345		
92254780003	**AMW-18**	EPA 8260B Mod.	MSV/32345		
92254780004	**AMW-4**	EPA 8260B Mod.	MSV/32345		
92254780005	**AMW-19**	EPA 8260B Mod.	MSV/32365		
92254780006	**AMW-7**	EPA 8260B Mod.	MSV/32365		
92254780007	**OBG-W8**	EPA 8260B Mod.	MSV/32365		
92254780001	**OBG-W5**	SM 2320B	WET/31588		
92254780002	**AMW-17**	SM 2320B	WET/31588		
92254780003	**AMW-18**	SM 2320B	WET/31588		
92254780004	**AMW-4**	SM 2320B	WET/31588		
92254780005	**AMW-19**	SM 2320B	WET/31588		
92254780006	**AMW-7**	SM 2320B	WET/31588		
92254780007	**OBG-W8**	SM 2320B	WET/31588		
92254780001	**OBG-W5**	SM 4500-S2D	WET/38196		
92254780002	**AMW-17**	SM 4500-S2D	WET/38196		
92254780003	**AMW-18**	SM 4500-S2D	WET/38196		
92254780004	**AMW-4**	SM 4500-S2D	WET/38196		
92254780005	**AMW-19**	SM 4500-S2D	WET/38196		
92254780006	**AMW-7**	SM 4500-S2D	WET/38196		
92254780007	**OBG-W8**	SM 4500-S2D	WET/38196		
92254780001	**OBG-W5**	EPA 300.0	WETA/47725		
92254780002	**AMW-17**	EPA 300.0	WETA/47725		
92254780003	**AMW-18**	EPA 300.0	WETA/47725		
92254780004	**AMW-4**	EPA 300.0	WETA/47725		
92254780005	**AMW-19**	EPA 300.0	WETA/47725		
92254780006	**AMW-7**	EPA 300.0	WETA/47725		
92254780007	**OBG-W8**	EPA 300.0	WETA/47725		
92254780001	**OBG-W5**	EPA 353.2	WETA/23344		
92254780002	**AMW-17**	EPA 353.2	WETA/23344		
92254780003	**AMW-18**	EPA 353.2	WETA/23344		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92254780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92254780004	**AMW-4**	EPA 353.2	WETA/23344		
92254780005	**AMW-19**	EPA 353.2	WETA/23344		
92254780006	**AMW-7**	EPA 353.2	WETA/23344		
92254780007	**OBG-W8**	EPA 353.2	WETA/23344		
92254780001	**OBG-W5**	SM 5310B	WETA/23405		
92254780002	**AMW-17**	SM 5310B	WETA/23405		
92254780003	**AMW-18**	SM 5310B	WETA/23405		
92254780004	**AMW-4**	SM 5310B	WETA/23405		
92254780005	**AMW-19**	SM 5310B	WETA/23405		
92254780006	**AMW-7**	SM 5310B	WETA/23405		
92254780007	**OBG-W8**	SM 5310B	WETA/23405		

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Pace Analytical www.pacelabs.com	Receipt (SCUR)	Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: (IR Gun#3 -130265963) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

R Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.4 C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/17 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

CURF Review:	lll	Date:	6/17/15
SRF Review:	TMD	Date:	6/17/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92254780

92254780

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902592

Section A Required Client Information:

Company: Earthcon
Address: 1550 Westoak Pkwy Bldg 100, Ste 106 Marietta, GA
Email To: krivera@earthcon.com
Phone: 770-973-2100 Fax:
Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name:
Address: Same as client info
Pace Quote Reference:
Pace Project Manager: 11/6/15
Pace Profile #: 9-3 7457-1

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH+Zn Acetate	$Na_2S_2O_3$	Methanol	Other H_3PO_4	Analysis Test: VOC 8260	1,4 Dioxane	Methane Ethane Ethene	TOC	Sulfide	Cl, SO_4	Alk	NO_3	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OBG-W5	WT	G	6/15	—	6/15	16:00		15				✓	✓			✓	3	3	3	3	1	1	1			001
2	Dup-1	WT	G		—	6/15	—		15				✓					3									008
3	AMW-17	WT	G		—		16:45		15				✓	✓			✓	3	3	3	3	1	1	1			002
4	AMW-18	WT	G		—		19:05		15				✓	✓			✓	3	3	3	3	1	1	1			003
5	AMW-4	WT	G		—	6/15	18:15		15				✓	✓			✓	3	3	3	3	1	1	1			004
6	AMW-19	WT	G	6/16	—	6/16	13:30		15				✓	✓			✓	3	3	3	3	1	1	1			005
7	AMW-7	WT	G		—	6/16	12:05		15				✓	✓			✓	3	3	3	3	1	1	1			006
8	OBG-W8	WT	G		—	6/16	11:50		15				✓	✓			✓	3	3	3	3	1	1	1			007
9																											
10																											
11																											
12																											

*See QAPP

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Danielle Edwards	6/16/15	15:40	Brent Petit	6-16	1540				
				White Star AVL	6/17/15	1000	3.4	X	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Danielle Edwards

SIGNATURE of SAMPLER: Danielle Edwards DATE Signed (MM/DD/YY): 06/16/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 17, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report chloride as originally requested on the COC, and to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255012001	**AMW-6**	Water	06/16/15 15:30	06/18/15 10:30
92255012002	**AMW-16**	Water	06/16/15 14:00	06/18/15 10:30
92255012003	**AMW-15**	Water	06/16/15 18:20	06/18/15 10:30
92255012004	**AMW-1**	Water	06/16/15 17:50	06/18/15 10:30
92255012005	**DMW-13**	Water	06/17/15 13:00	06/18/15 10:30
92255012006	**AMW-5**	Water	06/16/15 18:55	06/18/15 10:30
92255012007	**AMW-2**	Water	06/16/15 13:05	06/18/15 10:30
92255012008	**DUP-1**	Water	06/16/15 00:00	06/18/15 10:30
92255012009	**DUP-2**	Water	06/16/15 00:00	06/18/15 10:30
92255012010	**TRIP BLANK 2**	Water	06/16/15 00:00	06/18/15 10:30

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255012001	**AMW-6**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012002	**AMW-16**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012003	**AMW-15**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012004	**AMW-1**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012005	**DMW-13**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012006	**AMW-5**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012007	**AMW-2**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255012008	**DUP-1**	EPA 8260	SNP	12	PASI-C
92255012009	**DUP-2**	EPA 8260	SNP	12	PASI-C
92255012010	**TRIP BLANK 2**	EPA 8260	SNP	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-6 **Lab ID: 92255012001** Collected: 06/16/15 15:30 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:01	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:01	74-85-1	
Methane	**2.2J**	ug/L	10.0	0.63	1		06/23/15 03:01	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 12:18	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 12:18	107-06-2	
1,1-Dichloroethene	**0.0065**	mg/L	0.0010	0.00056	1		06/20/15 12:18	75-35-4	
cis-1,2-Dichloroethene	**0.0037**	mg/L	0.0010	0.00019	1		06/20/15 12:18	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 12:18	156-60-5	
Tetrachloroethene	**0.44**	mg/L	0.0050	0.0023	5		06/24/15 01:03	127-18-4	
1,1,1-Trichloroethane	**0.011**	mg/L	0.0010	0.00048	1		06/20/15 12:18	71-55-6	
Trichloroethene	**0.0071**	mg/L	0.0010	0.00047	1		06/20/15 12:18	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 12:18	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 12:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		06/20/15 12:18	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/20/15 12:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 01:59	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		06/30/15 01:59	17060-07-0	
Toluene-d8 (S)	73	%	50-150		1		06/30/15 01:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		06/26/15 10:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3J**	mg/L	5.0	2.5	1		06/29/15 12:34	16887-00-6	
Sulfate	**4.2J**	mg/L	5.0	2.5	1		06/29/15 12:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.18**	mg/L	0.020	0.010	1		06/18/15 16:45		H1
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		06/25/15 13:01	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-16 **Lab ID: 92255012002** Collected: 06/16/15 14:00 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:09	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:09	74-85-1	
Methane	**2.3J**	ug/L	10.0	0.63	1		06/23/15 03:09	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 12:36	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 12:36	107-06-2	
1,1-Dichloroethene	**0.0032**	mg/L	0.0010	0.00056	1		06/20/15 12:36	75-35-4	
cis-1,2-Dichloroethene	**0.0032**	mg/L	0.0010	0.00019	1		06/20/15 12:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 12:36	156-60-5	
Tetrachloroethene	**1.3**	mg/L	0.020	0.0092	20		06/24/15 01:21	127-18-4	
1,1,1-Trichloroethane	**0.0048**	mg/L	0.0010	0.00048	1		06/20/15 12:36	71-55-6	
Trichloroethene	**0.011**	mg/L	0.0010	0.00047	1		06/20/15 12:36	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 12:36	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/20/15 12:36	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		06/20/15 12:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/20/15 12:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 02:20	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		06/30/15 02:20	17060-07-0	
Toluene-d8 (S)	73	%	50-150		1		06/30/15 02:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	5.0	1		06/26/15 10:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.7J**	mg/L	5.0	2.5	1		06/29/15 12:53	16887-00-6	
Sulfate	**4.0J**	mg/L	5.0	2.5	1		06/29/15 12:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.25**	mg/L	0.020	0.010	1		06/18/15 16:44		H1
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**27.8**	mg/L	1.0	0.50	1		06/25/15 13:28	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-15 **Lab ID: 92255012003** Collected: 06/16/15 18:20 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:18	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:18	74-85-1	
Methane	**1.3J**	ug/L	10.0	0.63	1		06/23/15 03:18	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 12:54	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 12:54	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 12:54	75-35-4	
cis-1,2-Dichloroethene	**0.0063**	mg/L	0.0010	0.00019	1		06/20/15 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 12:54	156-60-5	
Tetrachloroethene	**0.41**	mg/L	0.0050	0.0023	5		06/24/15 01:39	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 12:54	71-55-6	
Trichloroethene	**0.0068**	mg/L	0.0010	0.00047	1		06/20/15 12:54	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 12:54	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/15 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/20/15 12:54	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/20/15 12:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0031**	mg/L	0.0020	0.0019	1		06/30/15 02:40	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		06/30/15 02:40	17060-07-0	
Toluene-d8 (S)	73	%	50-150		1		06/30/15 02:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**104**	mg/L	5.0	5.0	1		06/26/15 10:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.7J**	mg/L	5.0	2.5	1		06/29/15 13:13	16887-00-6	
Sulfate	**2.8J**	mg/L	5.0	2.5	1		06/29/15 13:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.14**	mg/L	0.020	0.010	1		06/18/15 16:47		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.0**	mg/L	1.0	0.50	1		06/25/15 13:38	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-1 **Lab ID: 92255012004** Collected: 06/16/15 17:50 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:26	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:26	74-85-1	
Methane	**1.5J**	ug/L	10.0	0.63	1		06/23/15 03:26	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 13:12	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 13:12	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 13:12	75-35-4	
cis-1,2-Dichloroethene	**0.084**	mg/L	0.0010	0.00019	1		06/20/15 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 13:12	156-60-5	
Tetrachloroethene	**90.2**	mg/L	1.0	0.46	1000		06/24/15 15:14	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 13:12	71-55-6	
Trichloroethene	**0.043**	mg/L	0.0010	0.00047	1		06/20/15 13:12	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 13:12	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		06/20/15 13:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		06/20/15 13:12	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		06/20/15 13:12	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0031**	mg/L	0.0020	0.0019	1		06/30/15 15:06	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		06/30/15 15:06	17060-07-0	
Toluene-d8 (S)	106	%	50-150		1		06/30/15 15:06	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**11.9**	mg/L	5.0	5.0	1		06/26/15 10:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	5.0	2.5	1		06/29/15 14:11	16887-00-6	
Sulfate	**2.5J**	mg/L	5.0	2.5	1		06/29/15 14:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.46**	mg/L	0.020	0.010	1		06/18/15 16:46		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**3.9**	mg/L	1.0	0.50	1		06/25/15 14:24	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: DMW-13 **Lab ID: 92255012005** Collected: 06/17/15 13:00 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:34	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:34	74-85-1	
Methane	**1.6J**	ug/L	10.0	0.63	1		06/23/15 03:34	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 13:31	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 13:31	107-06-2	
1,1-Dichloroethene	**0.0053**	mg/L	0.0010	0.00056	1		06/20/15 13:31	75-35-4	
cis-1,2-Dichloroethene	**0.0019**	mg/L	0.0010	0.00019	1		06/20/15 13:31	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 13:31	156-60-5	
Tetrachloroethene	**0.70**	mg/L	0.010	0.0046	10		06/24/15 02:16	127-18-4	
1,1,1-Trichloroethane	**0.0089**	mg/L	0.0010	0.00048	1		06/20/15 13:31	71-55-6	
Trichloroethene	**0.0085**	mg/L	0.0010	0.00047	1		06/20/15 13:31	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 13:31	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/15 13:31	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		06/20/15 13:31	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		06/20/15 13:31	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 15:27	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		06/30/15 15:27	17060-07-0	
Toluene-d8 (S)	101	%	50-150		1		06/30/15 15:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**71.7**	mg/L	5.0	5.0	1		06/26/15 10:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.4J**	mg/L	5.0	2.5	1		06/29/15 15:09	16887-00-6	
Sulfate	**4.3J**	mg/L	5.0	2.5	1		06/29/15 15:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.23**	mg/L	0.020	0.010	1		06/18/15 16:59		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.65J**	mg/L	1.0	0.50	1		06/25/15 14:34	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-5 **Lab ID: 92255012006** Collected: 06/16/15 18:55 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:42	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:42	74-85-1	
Methane	**1.8J**	ug/L	10.0	0.63	1		06/23/15 03:42	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 13:49	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 13:49	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/20/15 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 13:49	156-60-5	
Tetrachloroethene	**0.28**	mg/L	0.0050	0.0023	5		06/24/15 02:34	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 13:49	71-55-6	
Trichloroethene	**0.00055J**	mg/L	0.0010	0.00047	1		06/20/15 13:49	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 13:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/20/15 13:49	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/20/15 13:49	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/20/15 13:49	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0020J**	mg/L	0.0020	0.0019	1		06/30/15 15:48	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	50-150		1		06/30/15 15:48	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		06/30/15 15:48	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**64.1**	mg/L	5.0	5.0	1		06/26/15 10:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 15:29	16887-00-6	
Sulfate	**4.4J**	mg/L	5.0	2.5	1		06/29/15 15:29	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.15**	mg/L	0.020	0.010	1		06/18/15 16:48		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/25/15 20:26	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: AMW-2 **Lab ID: 92255012007** Collected: 06/16/15 13:05 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 03:50	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 03:50	74-85-1	
Methane	**1.7J**	ug/L	10.0	0.63	1		06/23/15 03:50	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 14:07	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 14:07	107-06-2	
1,1-Dichloroethene	**0.00061J**	mg/L	0.0010	0.00056	1		06/20/15 14:07	75-35-4	
cis-1,2-Dichloroethene	**0.0024**	mg/L	0.0010	0.00019	1		06/20/15 14:07	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 14:07	156-60-5	
Tetrachloroethene	**1.7**	mg/L	0.020	0.0092	20		06/24/15 02:52	127-18-4	
1,1,1-Trichloroethane	**0.0013**	mg/L	0.0010	0.00048	1		06/20/15 14:07	71-55-6	
Trichloroethene	**0.0037**	mg/L	0.0010	0.00047	1		06/20/15 14:07	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 14:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/20/15 14:07	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		06/20/15 14:07	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/20/15 14:07	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 16:09	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		06/30/15 16:09	17060-07-0	
Toluene-d8 (S)	100	%	50-150		1		06/30/15 16:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**47.2**	mg/L	5.0	5.0	1		06/26/15 10:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 17:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.4**	mg/L	5.0	2.5	1		06/29/15 15:48	16887-00-6	
Sulfate	**4.0J**	mg/L	5.0	2.5	1		06/29/15 15:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.62**	mg/L	0.020	0.010	1		06/18/15 16:43		H1
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**17.7**	mg/L	1.0	0.50	1		06/25/15 20:54	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: DUP-1 **Lab ID: 92255012008** Collected: 06/16/15 00:00 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		06/23/15 23:33	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0012	10		06/23/15 23:33	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.010	0.0056	10		06/23/15 23:33	75-35-4	
cis-1,2-Dichloroethene	**0.15**	mg/L	0.010	0.0019	10		06/23/15 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.010	0.0049	10		06/23/15 23:33	156-60-5	
Tetrachloroethene	**3.9**	mg/L	0.050	0.023	50		06/24/15 14:56	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.010	0.0048	10		06/23/15 23:33	71-55-6	
Trichloroethene	**0.090**	mg/L	0.010	0.0047	10		06/23/15 23:33	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		06/23/15 23:33	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		10		06/23/15 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		10		06/23/15 23:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		06/23/15 23:33	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: DUP-2 **Lab ID: 92255012009** Collected: 06/16/15 00:00 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/20/15 14:26	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/20/15 14:26	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/20/15 14:26	75-35-4	
cis-1,2-Dichloroethene	**0.086**	mg/L	0.0010	0.00019	1		06/20/15 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/20/15 14:26	156-60-5	
Tetrachloroethene	**90.2**	mg/L	1.0	0.46	1000		06/24/15 15:32	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/20/15 14:26	71-55-6	
Trichloroethene	**0.043**	mg/L	0.0010	0.00047	1		06/20/15 14:26	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/20/15 14:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		06/20/15 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		06/20/15 14:26	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		06/20/15 14:26	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Sample: TRIP BLANK 2 **Lab ID: 92255012010** Collected: 06/16/15 00:00 Received: 06/18/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/23/15 22:01	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/23/15 22:01	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/23/15 22:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/23/15 22:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/23/15 22:01	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/23/15 22:01	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/23/15 22:01	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/23/15 22:01	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/23/15 22:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		06/23/15 22:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/23/15 22:01	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		06/23/15 22:01	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: AIR/23534 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 2002609 Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/15 02:29	
Ethene	ug/L	ND	10.0	06/23/15 02:29	
Methane	ug/L	0.97J	10.0	06/23/15 02:29	

LABORATORY CONTROL SAMPLE & LCSD: 2002610 2002611

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	117	123	103	108	85-115	5	20	
Ethene	ug/L	106	111	114	104	108	85-115	3	20	
Methane	ug/L	60.7	63.4	64.9	105	107	85-115	2	20	

SAMPLE DUPLICATE: 2002612

Parameter	Units	2021423007 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	264	264	0	20	
Ethene	ug/L	8.0J	8.0J		20	
Methane	ug/L	5260	5290	1	20	

SAMPLE DUPLICATE: 2002613

Parameter	Units	2021423009 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	72.0	72.1	0	20	
Ethene	ug/L	18.2	17.3	5	20	
Methane	ug/L	2130	2050	4	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: MSV/32237 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007, 92255012009

METHOD BLANK: 1490209 | Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007, 92255012009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/20/15 04:59	
1,1-Dichloroethane	mg/L	ND	0.0010	06/20/15 04:59	
1,1-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:59	
1,2-Dichloroethane	mg/L	ND	0.0010	06/20/15 04:59	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:59	
Tetrachloroethene	mg/L	ND	0.0010	06/20/15 04:59	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/20/15 04:59	
Trichloroethene	mg/L	ND	0.0010	06/20/15 04:59	
Vinyl chloride	mg/L	ND	0.0010	06/20/15 04:59	
1,2-Dichloroethane-d4 (S)	%	95	70-130	06/20/15 04:59	
4-Bromofluorobenzene (S)	%	100	70-130	06/20/15 04:59	
Toluene-d8 (S)	%	99	70-130	06/20/15 04:59	

LABORATORY CONTROL SAMPLE: 1490210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.057	114	70-132	
1,2-Dichloroethane	mg/L	.05	0.044	88	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	99	70-131	
Tetrachloroethene	mg/L	.05	0.050	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	103	70-130	
Trichloroethene	mg/L	.05	0.050	100	70-130	
Vinyl chloride	mg/L	.05	0.051	102	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: MSV/32279 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255012008, 92255012010

METHOD BLANK: 1492310 | Matrix: Water
Associated Lab Samples: 92255012008, 92255012010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/23/15 17:08	
1,1-Dichloroethane	mg/L	ND	0.0010	06/23/15 17:08	
1,1-Dichloroethene	mg/L	ND	0.0010	06/23/15 17:08	
1,2-Dichloroethane	mg/L	ND	0.0010	06/23/15 17:08	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/23/15 17:08	
Tetrachloroethene	mg/L	ND	0.0010	06/23/15 17:08	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/23/15 17:08	
Trichloroethene	mg/L	ND	0.0010	06/23/15 17:08	
Vinyl chloride	mg/L	ND	0.0010	06/23/15 17:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/23/15 17:08	
4-Bromofluorobenzene (S)	%	105	70-130	06/23/15 17:08	
Toluene-d8 (S)	%	102	70-130	06/23/15 17:08	

LABORATORY CONTROL SAMPLE: 1492311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.051	102	70-130	
1,1-Dichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethene	mg/L	.05	0.061	121	70-132	
1,2-Dichloroethane	mg/L	.05	0.048	97	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.052	104	70-131	
Tetrachloroethene	mg/L	.05	0.041	83	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	107	70-130	
Trichloroethene	mg/L	.05	0.050	99	70-130	
Vinyl chloride	mg/L	.05	0.053	106	50-150	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			104	70-130	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: MSV/32366 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255012001, 92255012002, 92255012003

METHOD BLANK: 1497348 Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/29/15 17:46	
1,2-Dichloroethane-d4 (S)	%	116	50-150	06/29/15 17:46	
Toluene-d8 (S)	%	97	50-150	06/29/15 17:46	

LABORATORY CONTROL SAMPLE: 1497349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			117	50-150	
Toluene-d8 (S)	%			97	50-150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: MSV/32371 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 1498019 Matrix: Water
Associated Lab Samples: 92255012004, 92255012005, 92255012006, 92255012007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/30/15 13:21	
1,2-Dichloroethane-d4 (S)	%	97	50-150	06/30/15 13:21	
Toluene-d8 (S)	%	100	50-150	06/30/15 13:21	

LABORATORY CONTROL SAMPLE: 1498020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.023	114	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498021 1498022

Parameter	Units	92255177002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.020	97	102	50-150	5	30	
1,2-Dichloroethane-d4 (S)	%						106	108	50-150		150	
Toluene-d8 (S)	%						98	98	50-150		150	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WET/31601 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 1253865 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/26/15 10:18	

LABORATORY CONTROL SAMPLE: 1253866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	238	95	90-110	

SAMPLE DUPLICATE: 1253867

Parameter	Units	92255012001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	108	110	2	20	

SAMPLE DUPLICATE: 1253868

Parameter	Units	92255066005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	89500 ug/L	89.3	0	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WET/38236 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 1489355 Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/22/15 17:10	

LABORATORY CONTROL SAMPLE: 1489356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489357 1489358

Parameter	Units	92255012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.45	0.45	90	90	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489359 1489360

Parameter	Units	92255066003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.25	0.25	50	50	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WETA/47725 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 1255492 | Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 09:01	
Sulfate	mg/L	ND	5.0	06/29/15 09:01	

LABORATORY CONTROL SAMPLE: 1255493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255494 1255495

Parameter	Units	92254780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5J	50	50	51.4	51.4	96	96	90-110	0	20	
Sulfate	mg/L	4.7J	50	50	51.8	51.9	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255496 1255497

Parameter	Units	92255012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	53.7	55.9	96	101	90-110	4	20	
Sulfate	mg/L	2.5J	50	50	48.9	51.1	93	97	90-110	4	20	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WETA/23371 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

METHOD BLANK: 1488918 Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005, 92255012006, 92255012007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/18/15 16:40	

LABORATORY CONTROL SAMPLE: 1488919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1488920 1488921

Parameter	Units	92254991001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	4.0	2.5	2.5	5.9	5.9	77	76	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WETA/23464 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005

METHOD BLANK: 1494032 Matrix: Water
Associated Lab Samples: 92255012001, 92255012002, 92255012003, 92255012004, 92255012005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/25/15 09:29	

LABORATORY CONTROL SAMPLE: 1494033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494034 1494035

Parameter	Units	92255563008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.5	25	25	26.7	26.6	101	100	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494310 1494311

Parameter	Units	92255012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	25	25	25.8	25.7	97	96	90-110	1	5	

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QUALITY CONTROL DATA

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

QC Batch: WETA/23473 | Analysis Method: SM 5310B
QC Batch Method: SM 5310B | Analysis Description: 5310B TOC
Associated Lab Samples: 92255012006, 92255012007

METHOD BLANK: 1494677 | Matrix: Water
Associated Lab Samples: 92255012006, 92255012007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/25/15 19:58	

LABORATORY CONTROL SAMPLE: 1494678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494679 1494680

Parameter	Units	92255569006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.5	25	25	28.3	28.2	99	99	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494681 1494682

Parameter	Units	92255569008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.61J	25	25	25.5	25.3	99	99	90-110	1	5	

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QUALIFIERS

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255012001	**AMW-6**	RSK 175	AIR/23534		
92255012002	**AMW-16**	RSK 175	AIR/23534		
92255012003	**AMW-15**	RSK 175	AIR/23534		
92255012004	**AMW-1**	RSK 175	AIR/23534		
92255012005	**DMW-13**	RSK 175	AIR/23534		
92255012006	**AMW-5**	RSK 175	AIR/23534		
92255012007	**AMW-2**	RSK 175	AIR/23534		
92255012001	**AMW-6**	EPA 8260	MSV/32237		
92255012002	**AMW-16**	EPA 8260	MSV/32237		
92255012003	**AMW-15**	EPA 8260	MSV/32237		
92255012004	**AMW-1**	EPA 8260	MSV/32237		
92255012005	**DMW-13**	EPA 8260	MSV/32237		
92255012006	**AMW-5**	EPA 8260	MSV/32237		
92255012007	**AMW-2**	EPA 8260	MSV/32237		
92255012008	**DUP-1**	EPA 8260	MSV/32279		
92255012009	**DUP-2**	EPA 8260	MSV/32237		
92255012010	**TRIP BLANK 2**	EPA 8260	MSV/32279		
92255012001	**AMW-6**	EPA 8260B Mod.	MSV/32366		
92255012002	**AMW-16**	EPA 8260B Mod.	MSV/32366		
92255012003	**AMW-15**	EPA 8260B Mod.	MSV/32366		
92255012004	**AMW-1**	EPA 8260B Mod.	MSV/32371		
92255012005	**DMW-13**	EPA 8260B Mod.	MSV/32371		
92255012006	**AMW-5**	EPA 8260B Mod.	MSV/32371		
92255012007	**AMW-2**	EPA 8260B Mod.	MSV/32371		
92255012001	**AMW-6**	SM 2320B	WET/31601		
92255012002	**AMW-16**	SM 2320B	WET/31601		
92255012003	**AMW-15**	SM 2320B	WET/31601		
92255012004	**AMW-1**	SM 2320B	WET/31601		
92255012005	**DMW-13**	SM 2320B	WET/31601		
92255012006	**AMW-5**	SM 2320B	WET/31601		
92255012007	**AMW-2**	SM 2320B	WET/31601		
92255012001	**AMW-6**	SM 4500-S2D	WET/38236		
92255012002	**AMW-16**	SM 4500-S2D	WET/38236		
92255012003	**AMW-15**	SM 4500-S2D	WET/38236		
92255012004	**AMW-1**	SM 4500-S2D	WET/38236		
92255012005	**DMW-13**	SM 4500-S2D	WET/38236		
92255012006	**AMW-5**	SM 4500-S2D	WET/38236		
92255012007	**AMW-2**	SM 4500-S2D	WET/38236		
92255012001	**AMW-6**	EPA 300.0	WETA/47725		
92255012002	**AMW-16**	EPA 300.0	WETA/47725		
92255012003	**AMW-15**	EPA 300.0	WETA/47725		
92255012004	**AMW-1**	EPA 300.0	WETA/47725		
92255012005	**DMW-13**	EPA 300.0	WETA/47725		
92255012006	**AMW-5**	EPA 300.0	WETA/47725		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC DALTON 02.20140392.00
Pace Project No.: 92255012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255012007	**AMW-2**	EPA 300.0	WETA/47725		
92255012001	**AMW-6**	EPA 353.2	WETA/23371		
92255012002	**AMW-16**	EPA 353.2	WETA/23371		
92255012003	**AMW-15**	EPA 353.2	WETA/23371		
92255012004	**AMW-1**	EPA 353.2	WETA/23371		
92255012005	**DMW-13**	EPA 353.2	WETA/23371		
92255012006	**AMW-5**	EPA 353.2	WETA/23371		
92255012007	**AMW-2**	EPA 353.2	WETA/23371		
92255012001	**AMW-6**	SM 5310B	WETA/23464		
92255012002	**AMW-16**	SM 5310B	WETA/23464		
92255012003	**AMW-15**	SM 5310B	WETA/23464		
92255012004	**AMW-1**	SM 5310B	WETA/23464		
92255012005	**DMW-13**	SM 5310B	WETA/23464		
92255012006	**AMW-5**	SM 5310B	WETA/23473		
92255012007	**AMW-2**	SM 5310B	WETA/23473		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 2.0 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AMB 6/18/15

		Comments:
Chain of Custody Present:	☑Yes ☑No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☑No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☑No ☐N/A	6. AMB 6/18/15
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☑No ☐N/A	9.
-Pace Containers Used:	☑Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	Date:	6-18-15
SRF Review:	NMG	Date:	6-19-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255012

92255012

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902589

Section A Required Client Information:
Company: Earthview
Address: 1880 West Oak Pkwy Bldg 100 Ste 106 Marietta GA 30062
Email To:
Phone: 770-973-2105 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC DALTON
Project Number: 07 20140392.00

Section C Invoice Information:
Attention:
Company Name: SAME
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY: NPDES / X GROUND WATER / DRINKING WATER / UST / RCRA / OTHER
Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH + Zn Acetate	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOC 8260	1,4-Dioxane	Methane, ethane, ethene	TOC	Sulfide	Cl, SO_4, Alk	NO_3	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	AMW-6	WT	G	6/16	—	6/16	15:30		15				✓	✓			✓	3	3	3	3	1	1	1		001
2	AMW-16	WT	G	6/16	—	6/16	14:00		15				✓	✓			✓	3	3	3	3	1	1	1		002
3	AMW-15	WT	G	6/16	—	6/16	18:20		15				✓	✓			✓	3	3	3	3	1	1	1		003
4	DUP-1	O	G	6/16	—	6/16	—		3				✓					3								DUP-1 placed on COC
5	DUP-2	WT	G	6/16	—	6/16	—		3									3								for 6/16 but was
6	AMW-1	WT	G	6/16	—	6/16	17:50		15									3	3	3	3	1	1	1		not included in
7	DMW-13	WT	G	6/17	—	6/17	13:00		15				✓	✓			✓	3	3	3	3	1	1	1		cooler.
8	AMW-5	WT	G	6/16	—	6/16	18:55		15				✓	✓			✓	3	3	3	3	1	1	1		
9	AMW-2	WT	G	6/16	—	6/16	17:05		15				✓	✓			✓	3	3	3	3	1	1	1		
10	TRIP BLANK 2	W	—	—	—	—	—											2								
11																										
12																										

*SEE QAPP

922 55012

Pace Project No./ Lab I.D.: 001, 002, 003, 008, 009, 004, 005, 006, 007, 010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6-17-15	15:50	[signature]	6-17	15:50				
				Ruth Rivera Tanthea ASH	6/18/15	10:30	2.0	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Revised to include MEE on all samples.

This revised report was issued on 7/13/15 to report ethane and ethene, as originally requested on the COC, and to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

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Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255177001	**Trip Blank 3**	Water	06/17/15 00:00	06/19/15 10:30
92255177002	**AMW-20**	Water	06/17/15 14:00	06/19/15 10:30
92255177003	**OBG-W3**	Water	06/17/15 19:05	06/19/15 10:30
92255177004	**OBG-W4**	Water	06/17/15 19:10	06/19/15 10:30
92255177005	**AMW-3**	Water	06/17/15 18:30	06/19/15 10:30
92255177006	**ARW-3**	Water	06/18/15 10:30	06/19/15 10:30
92255177007	**AMW-21**	Water	06/18/15 14:30	06/19/15 10:30
92255177008	**Equipment Blank 1**	Water	06/17/15 16:30	06/19/15 10:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255177001	**Trip Blank 3**	EPA 8260	CAH	12	PASI-C
92255177002	**AMW-20**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177003	**OBG-W3**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177004	**OBG-W4**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177005	**AMW-3**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177006	**ARW-3**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177007	**AMW-21**	RSK 175	DR1	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255177008	**Equipment Blank 1**	EPA 8260	CAH	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: Trip Blank 3 **Lab ID: 92255177001** Collected: 06/17/15 00:00 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 08:13	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 08:13	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 08:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 08:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 08:13	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 08:13	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 08:13	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 08:13	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 08:13	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/25/15 08:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		06/25/15 08:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/25/15 08:13	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: AMW-20 **Lab ID: 92255177002** Collected: 06/17/15 14:00 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 04:55	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 04:55	74-85-1	
Methane	**1.5J**	ug/L	10.0	0.63	1		06/23/15 04:55	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 08:46	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 08:46	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 08:46	75-35-4	
cis-1,2-Dichloroethene	**0.0019**	mg/L	0.0010	0.00019	1		06/25/15 08:46	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 08:46	156-60-5	
Tetrachloroethene	**0.027**	mg/L	0.0010	0.00046	1		06/25/15 08:46	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 08:46	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 08:46	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 08:46	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/25/15 08:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/25/15 08:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/25/15 08:46	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 16:30	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	50-150		1		06/30/15 16:30	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/30/15 16:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**14.8**	mg/L	5.0	5.0	1		06/26/15 12:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 20:39	16887-00-6	
Sulfate	**2.6J**	mg/L	5.0	2.5	1		06/29/15 20:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.058**	mg/L	0.020	0.010	1		06/19/15 12:19		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.56J**	mg/L	1.0	0.50	1		06/25/15 21:04	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: OBG-W3 **Lab ID: 92255177003** Collected: 06/17/15 19:05 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 05:03	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 05:03	74-85-1	
Methane	**13.8**	ug/L	10.0	0.63	1		06/23/15 05:03	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 17:37	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 17:37	107-06-2	
1,1-Dichloroethene	**0.0022**	mg/L	0.0010	0.00056	1		06/25/15 17:37	75-35-4	
cis-1,2-Dichloroethene	**0.0021**	mg/L	0.0010	0.00019	1		06/25/15 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 17:37	156-60-5	
Tetrachloroethene	**0.042**	mg/L	0.0010	0.00046	1		06/25/15 17:37	127-18-4	
1,1,1-Trichloroethane	**0.0068**	mg/L	0.0010	0.00048	1		06/25/15 17:37	71-55-6	
Trichloroethene	**0.0013**	mg/L	0.0010	0.00047	1		06/25/15 17:37	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 17:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/25/15 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/25/15 17:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/25/15 17:37	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 17:32	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		06/30/15 17:32	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		06/30/15 17:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**91.5**	mg/L	5.0	5.0	1		06/26/15 12:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.9J**	mg/L	5.0	2.5	1		06/29/15 20:59	16887-00-6	
Sulfate	**3.5J**	mg/L	5.0	2.5	1		06/29/15 20:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.090**	mg/L	0.020	0.010	1		06/19/15 12:25		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/25/15 21:15	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: OBG-W4 **Lab ID: 92255177004** Collected: 06/17/15 19:10 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 05:12	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 05:12	74-85-1	
Methane	**3.1J**	ug/L	10.0	0.63	1		06/23/15 05:12	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 09:02	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 09:02	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 09:02	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 09:02	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 09:02	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 09:02	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 09:02	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 09:02	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 09:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/25/15 09:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/25/15 09:02	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/25/15 09:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 17:53	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		06/30/15 17:53	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/30/15 17:53	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**69.6**	mg/L	5.0	5.0	1		06/26/15 12:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 21:18	16887-00-6	
Sulfate	**4.0J**	mg/L	5.0	2.5	1		06/29/15 21:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.12**	mg/L	0.020	0.010	1		06/19/15 12:30		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/25/15 21:25	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: AMW-3 **Lab ID: 92255177005** Collected: 06/17/15 18:30 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 05:20	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 05:20	74-85-1	
Methane	**1.6J**	ug/L	10.0	0.63	1		06/23/15 05:20	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.10	0.032	100		06/25/15 14:35	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.10	0.012	100		06/25/15 14:35	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.10	0.056	100		06/25/15 14:35	75-35-4	
cis-1,2-Dichloroethene	**0.032J**	mg/L	0.10	0.019	100		06/25/15 14:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.10	0.049	100		06/25/15 14:35	156-60-5	
Tetrachloroethene	**22.9**	mg/L	0.20	0.092	200		06/25/15 16:48	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.10	0.048	100		06/25/15 14:35	71-55-6	
Trichloroethene	ND	mg/L	0.10	0.047	100		06/25/15 14:35	79-01-6	
Vinyl chloride	ND	mg/L	0.10	0.062	100		06/25/15 14:35	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		100		06/25/15 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		100		06/25/15 14:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		100		06/25/15 14:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 19:57	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		06/30/15 19:57	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		06/30/15 19:57	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/26/15 12:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**142**	mg/L	5.0	2.5	1		06/29/15 21:37	16887-00-6	
Sulfate	ND	mg/L	5.0	2.5	1		06/29/15 21:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**4.0**	mg/L	0.020	0.010	1		06/19/15 12:24		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.94J**	mg/L	1.0	0.50	1		06/25/15 21:36	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: ARW-3 **Lab ID: 92255177006** Collected: 06/18/15 10:30 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 05:28	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 05:28	74-85-1	
Methane	**1.8J**	ug/L	10.0	0.63	1		06/23/15 05:28	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.025	0.0080	25		06/25/15 16:31	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.025	0.0030	25		06/25/15 16:31	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.025	0.014	25		06/25/15 16:31	75-35-4	
cis-1,2-Dichloroethene	**0.10**	mg/L	0.025	0.0048	25		06/25/15 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.025	0.012	25		06/25/15 16:31	156-60-5	
Tetrachloroethene	**2.8**	mg/L	0.025	0.012	25		06/25/15 16:31	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.025	0.012	25		06/25/15 16:31	71-55-6	
Trichloroethene	**0.064**	mg/L	0.025	0.012	25		06/25/15 16:31	79-01-6	
Vinyl chloride	ND	mg/L	0.025	0.016	25		06/25/15 16:31	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		25		06/25/15 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		25		06/25/15 16:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		25		06/25/15 16:31	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 20:17	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	50-150		1		06/30/15 20:17	17060-07-0	
Toluene-d8 (S)	98	%	50-150		1		06/30/15 20:17	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**80.9**	mg/L	5.0	5.0	1		06/26/15 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2J**	mg/L	5.0	2.5	1		06/29/15 21:57	16887-00-6	
Sulfate	**4.2J**	mg/L	5.0	2.5	1		06/29/15 21:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.19**	mg/L	0.020	0.010	1		06/19/15 12:35		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		06/25/15 22:06	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: AMW-21 **Lab ID: 92255177007** Collected: 06/18/15 14:30 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/23/15 05:52	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/23/15 05:52	74-85-1	
Methane	**2.5J**	ug/L	10.0	0.63	1		06/23/15 05:52	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.20	0.064	200		06/25/15 17:04	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.20	0.024	200		06/25/15 17:04	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.20	0.11	200		06/25/15 17:04	75-35-4	
cis-1,2-Dichloroethene	**0.81**	mg/L	0.20	0.038	200		06/25/15 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.20	0.098	200		06/25/15 17:04	156-60-5	
Tetrachloroethene	**22.1**	mg/L	0.20	0.092	200		06/25/15 17:04	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.20	0.096	200		06/25/15 17:04	71-55-6	
Trichloroethene	**0.50**	mg/L	0.20	0.094	200		06/25/15 17:04	79-01-6	
Vinyl chloride	ND	mg/L	0.20	0.12	200		06/25/15 17:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		200		06/25/15 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		200		06/25/15 17:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		200		06/25/15 17:04	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		06/30/15 20:38	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	50-150		1		06/30/15 20:38	17060-07-0	
Toluene-d8 (S)	99	%	50-150		1		06/30/15 20:38	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**76.0**	mg/L	5.0	5.0	1		06/26/15 13:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.9**	mg/L	5.0	2.5	1		06/29/15 22:16	16887-00-6	
Sulfate	**3.3J**	mg/L	5.0	2.5	1		06/29/15 22:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.55**	mg/L	0.020	0.010	1		06/19/15 12:36		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.78J**	mg/L	1.0	0.50	1		06/25/15 22:16	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Sample: Equipment Blank 1 **Lab ID: 92255177008** Collected: 06/17/15 16:30 Received: 06/19/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 08:29	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 08:29	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 08:29	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 08:29	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 08:29	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 08:29	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 08:29	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 08:29	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 08:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/25/15 08:29	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/25/15 08:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/25/15 08:29	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: AIR/23534 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006

METHOD BLANK: 2002609 Matrix: Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/15 02:29	
Ethene	ug/L	ND	10.0	06/23/15 02:29	
Methane	ug/L	0.97J	10.0	06/23/15 02:29	

LABORATORY CONTROL SAMPLE & LCSD: 2002610 2002611

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	117	123	103	108	85-115	5	20	
Ethene	ug/L	106	111	114	104	108	85-115	3	20	
Methane	ug/L	60.7	63.4	64.9	105	107	85-115	2	20	

SAMPLE DUPLICATE: 2002612

Parameter	Units	2021423007 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	264	264	0	20	
Ethene	ug/L	8.0J	8.0J		20	
Methane	ug/L	5260	5290	1	20	

SAMPLE DUPLICATE: 2002613

Parameter	Units	2021423009 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	72.0	72.1	0	20	
Ethene	ug/L	18.2	17.3	5	20	
Methane	ug/L	2130	2050	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: AIR/23535
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255177007

METHOD BLANK: 2002614
Matrix: Water
Associated Lab Samples: 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/15 05:44	
Ethene	ug/L	ND	10.0	06/23/15 05:44	
Methane	ug/L	1.5J	10.0	06/23/15 05:44	

LABORATORY CONTROL SAMPLE & LCSD: 2002615 2002616

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	123	124	108	109	85-115	1	20	
Ethene	ug/L	106	114	115	108	108	85-115	1	20	
Methane	ug/L	60.7	64.9	65.1	107	107	85-115	0	20	

SAMPLE DUPLICATE: 2002617

Parameter	Units	92255177007 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	2.5J	2.5J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: MSV/32301 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255177001, 92255177002, 92255177004, 92255177008

METHOD BLANK: 1493921 Matrix: Water
Associated Lab Samples: 92255177001, 92255177002, 92255177004, 92255177008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 07:39	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 07:39	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:39	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 07:39	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:39	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 07:39	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:39	
Trichloroethene	mg/L	ND	0.0010	06/25/15 07:39	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 07:39	
1,2-Dichloroethane-d4 (S)	%	96	70-130	06/25/15 07:39	
4-Bromofluorobenzene (S)	%	100	70-130	06/25/15 07:39	
Toluene-d8 (S)	%	100	70-130	06/25/15 07:39	

LABORATORY CONTROL SAMPLE: 1493922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.049	97	70-130	
1,1-Dichloroethane	mg/L	.05	0.046	93	70-130	
1,1-Dichloroethene	mg/L	.05	0.049	98	70-132	
1,2-Dichloroethane	mg/L	.05	0.046	92	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.047	94	70-131	
Tetrachloroethene	mg/L	.05	0.046	91	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.047	94	70-130	
Trichloroethene	mg/L	.05	0.045	90	70-130	
Vinyl chloride	mg/L	.05	0.048	96	50-150	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1493923

Parameter	Units	92255177002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	119	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	110	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	126	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.020	102	70-130	
cis-1,2-Dichloroethene	mg/L	0.0019	.02	0.024	112	70-130	
Tetrachloroethene	mg/L	0.027	.02	0.050	116	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

MATRIX SPIKE SAMPLE: 1493923

Parameter	Units	92255177002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	116	70-130	
Trichloroethene	mg/L	ND	.02	0.022	111	69-151	
Vinyl chloride	mg/L	ND	.02	0.025	123	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1493924

Parameter	Units	92255177004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	100	1		
4-Bromofluorobenzene (S)	%	100	102	1		
Toluene-d8 (S)	%	99	100	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: MSV/32302 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255177003, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1493928 Matrix: Water
Associated Lab Samples: 92255177003, 92255177005, 92255177006, 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 07:56	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 07:56	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:56	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 07:56	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:56	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 07:56	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 07:56	
Trichloroethene	mg/L	ND	0.0010	06/25/15 07:56	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 07:56	
1,2-Dichloroethane-d4 (S)	%	100	70-130	06/25/15 07:56	
4-Bromofluorobenzene (S)	%	101	70-130	06/25/15 07:56	
Toluene-d8 (S)	%	102	70-130	06/25/15 07:56	

LABORATORY CONTROL SAMPLE: 1493929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.045	91	70-130	
1,1-Dichloroethane	mg/L	.05	0.044	87	70-130	
1,1-Dichloroethene	mg/L	.05	0.045	90	70-132	
1,2-Dichloroethane	mg/L	.05	0.045	90	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.045	90	70-131	
Tetrachloroethene	mg/L	.05	0.042	84	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.045	89	70-130	
Trichloroethene	mg/L	.05	0.042	83	70-130	
Vinyl chloride	mg/L	.05	0.044	89	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1493930

Parameter	Units	92255298021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	119	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	111	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	124	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	104	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	112	70-130	
Tetrachloroethene	mg/L	ND	.02	0.023	113	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

MATRIX SPIKE SAMPLE: 1493930

Parameter	Units	92255298021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.024	118	70-130	
Trichloroethene	mg/L	ND	.02	0.022	110	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	122	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1493931

Parameter	Units	92255298022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	98	1		
4-Bromofluorobenzene (S)	%	102	102	0		
Toluene-d8 (S)	%	100	100	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: MSV/32371 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255177002, 92255177003, 92255177004

METHOD BLANK: 1498019 Matrix: Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/30/15 13:21	
1,2-Dichloroethane-d4 (S)	%	97	50-150	06/30/15 13:21	
Toluene-d8 (S)	%	100	50-150	06/30/15 13:21	

LABORATORY CONTROL SAMPLE: 1498020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.023	114	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498021 1498022

Parameter	Units	92255177002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	ND	.02	.02	0.019	0.020	97	102	50-150	5	30	
1,2-Dichloroethane-d4 (S)	%						106	108	50-150		150	
Toluene-d8 (S)	%						98	98	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: MSV/32386 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255177005, 92255177006, 92255177007

METHOD BLANK: 1498605 Matrix: Water
Associated Lab Samples: 92255177005, 92255177006, 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/30/15 19:16	
1,2-Dichloroethane-d4 (S)	%	103	50-150	06/30/15 19:16	
Toluene-d8 (S)	%	99	50-150	06/30/15 19:16	

LABORATORY CONTROL SAMPLE: 1498606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	94	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			98	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498607 1498608

Parameter	Units	92255362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	314 ug/L	.2	.2	0.51	0.55	97	116	50-150	7	30	
1,2-Dichloroethane-d4 (S)	%						111	110	50-150		150	
Toluene-d8 (S)	%						96	94	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: WET/31603 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1253893 | Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/26/15 12:14	

LABORATORY CONTROL SAMPLE: 1253894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	238	95	90-110	

SAMPLE DUPLICATE: 1253895

Parameter	Units	92255076029 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	38.0	35.9	6	20	

SAMPLE DUPLICATE: 1253896

Parameter	Units	92255526001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	113	112	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: WET/38287 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1490771 Matrix: Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/22/15 16:15	

LABORATORY CONTROL SAMPLE: 1490772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490773 1490774

Parameter	Units	92255177002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.55	0.55	111	111	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: WETA/47726 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1255498 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 18:43	
Sulfate	mg/L	ND	5.0	06/29/15 18:43	

LABORATORY CONTROL SAMPLE: 1255499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255500 1255501

Parameter	Units	92255784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	50	50	62.0	62.0	97	97	90-110	0	20	
Sulfate	mg/L	13.1	50	50	61.7	61.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255804 1255805

Parameter	Units	35193997002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	337	250	250	584	574	99	95	90-110	2	20	
Sulfate	mg/L	115	250	250	364	360	99	98	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: WETA/23378 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1489632 | Matrix: Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/19/15 12:15	

LABORATORY CONTROL SAMPLE: 1489633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489634 1489635

Parameter	Units	92255177002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.058	2.5	2.5	2.6	2.6	101	102	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

QC Batch: WETA/23473 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

METHOD BLANK: 1494677 Matrix: Water
Associated Lab Samples: 92255177002, 92255177003, 92255177004, 92255177005, 92255177006, 92255177007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/25/15 19:58	

LABORATORY CONTROL SAMPLE: 1494678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494679 1494680

Parameter	Units	92255569006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.5	25	25	28.3	28.2	99	99	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494681 1494682

Parameter	Units	92255569008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.61J	25	25	25.5	25.3	99	99	90-110	1	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255177002	**AMW-20**	RSK 175	AIR/23534		
92255177003	**OBG-W3**	RSK 175	AIR/23534		
92255177004	**OBG-W4**	RSK 175	AIR/23534		
92255177005	**AMW-3**	RSK 175	AIR/23534		
92255177006	**ARW-3**	RSK 175	AIR/23534		
92255177007	**AMW-21**	RSK 175	AIR/23535		
92255177001	**Trip Blank 3**	EPA 8260	MSV/32301		
92255177002	**AMW-20**	EPA 8260	MSV/32301		
92255177003	**OBG-W3**	EPA 8260	MSV/32302		
92255177004	**OBG-W4**	EPA 8260	MSV/32301		
92255177005	**AMW-3**	EPA 8260	MSV/32302		
92255177006	**ARW-3**	EPA 8260	MSV/32302		
92255177007	**AMW-21**	EPA 8260	MSV/32302		
92255177008	**Equipment Blank 1**	EPA 8260	MSV/32301		
92255177002	**AMW-20**	EPA 8260B Mod.	MSV/32371		
92255177003	**OBG-W3**	EPA 8260B Mod.	MSV/32371		
92255177004	**OBG-W4**	EPA 8260B Mod.	MSV/32371		
92255177005	**AMW-3**	EPA 8260B Mod.	MSV/32386		
92255177006	**ARW-3**	EPA 8260B Mod.	MSV/32386		
92255177007	**AMW-21**	EPA 8260B Mod.	MSV/32386		
92255177002	**AMW-20**	SM 2320B	WET/31603		
92255177003	**OBG-W3**	SM 2320B	WET/31603		
92255177004	**OBG-W4**	SM 2320B	WET/31603		
92255177005	**AMW-3**	SM 2320B	WET/31603		
92255177006	**ARW-3**	SM 2320B	WET/31603		
92255177007	**AMW-21**	SM 2320B	WET/31603		
92255177002	**AMW-20**	SM 4500-S2D	WET/38287		
92255177003	**OBG-W3**	SM 4500-S2D	WET/38287		
92255177004	**OBG-W4**	SM 4500-S2D	WET/38287		
92255177005	**AMW-3**	SM 4500-S2D	WET/38287		
92255177006	**ARW-3**	SM 4500-S2D	WET/38287		
92255177007	**AMW-21**	SM 4500-S2D	WET/38287		
92255177002	**AMW-20**	EPA 300.0	WETA/47726		
92255177003	**OBG-W3**	EPA 300.0	WETA/47726		
92255177004	**OBG-W4**	EPA 300.0	WETA/47726		
92255177005	**AMW-3**	EPA 300.0	WETA/47726		
92255177006	**ARW-3**	EPA 300.0	WETA/47726		
92255177007	**AMW-21**	EPA 300.0	WETA/47726		
92255177002	**AMW-20**	EPA 353.2	WETA/23378		
92255177003	**OBG-W3**	EPA 353.2	WETA/23378		
92255177004	**OBG-W4**	EPA 353.2	WETA/23378		
92255177005	**AMW-3**	EPA 353.2	WETA/23378		
92255177006	**ARW-3**	EPA 353.2	WETA/23378		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255177

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255177007	**AMW-21**	EPA 353.2	WETA/23378		
92255177002	**AMW-20**	SM 5310B	WETA/23473		
92255177003	**OBG-W3**	SM 5310B	WETA/23473		
92255177004	**OBG-W4**	SM 5310B	WETA/23473		
92255177005	**AMW-3**	SM 5310B	WETA/23473		
92255177006	**ARW-3**	SM 5310B	WETA/23473		
92255177007	**AMW-21**	SM 5310B	WETA/23473		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 4.6 C **Biological Tissue Is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 6/19/18

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrates held ending at 1400
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB **Date:** 6/19/15

SRF Review: NMG **Date:** 6/19/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255177

92255177

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1902585

Section A Required Client Information:
Company: Earthcon Consultants
Address: 1880 West Oak Pkwy Bld 100, Ste 106 Marietta GA 30062
Email To: kriveria@earthcon.com
Phone: 770-973-2000 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:
Attention:
Company Name: SAME
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY: NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER
Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH+Zn Ace.	$Na_2S_2O_3$	Methanol	Other Phosphoric Acid	Analysis Test (Y/N)	VOC	1,4 Dioxane	Methane, Ethane, Ethene	TOC	Sulfide	Cl, Sulf, Alk	NO_3	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (SEE QAPP 92255177)
1	TRIP BLANK 3	W	-			—	—		2				✓						2									001
2	AMW-20	W	G			6-17-15	18:00		15	✓			✓	✓			✓		3	3	3	3	1	1	1			002
3	EQUIPMENT BLANK 1	W				6-17-15	16:32		3				✓						3									008
4	OBG-W3	W	G			6-17-15	19:05		15	✓			✓	✓			✓		3	3	3	3	1	1	1			003
5	OBG-W4	W	G			6-17-15	19:10		15	✓			✓	✓			✓		3	3	3	3	1	1	1			004
6	AMW-3	W	G			6-17-15	18:30		15	✓			✓	✓			✓		3	3	3	3	1	1	1			005
7	ARW-3	W	G			6-18-15	10:30		15	✓			✓	✓			✓		3	3	3	3	1	1	1			006
8	AMW-21	W	G			6-18-15	14:30		15	✓			✓	✓			✓		3	3	3	3	1	1	1			007
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6-18-15	1520	B. Petit	6-18	15:20				
				Ruth Deise Earthcon AA	6/19/15	10:20	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Thomas McKellar
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/18/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255340001	**AMW-8**	Water	06/18/15 16:35	06/20/15 10:30
92255340002	**Trip Blank 4**	Water	06/18/15 00:00	06/20/15 10:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255340001	**AMW-8**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES	1	PASI-A
92255340002	**Trip Blank 4**	EPA 8260	SNP	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Sample: AMW-8 **Lab ID: 92255340001** Collected: 06/18/15 16:35 Received: 06/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/24/15 22:45	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/24/15 22:45	74-85-1	
Methane	**1.7J**	ug/L	10.0	0.63	1		06/24/15 22:45	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.050	0.016	50		06/26/15 19:06	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.050	0.0060	50		06/26/15 19:06	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.050	0.028	50		06/26/15 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.050	0.0095	50		06/26/15 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.050	0.024	50		06/26/15 19:06	156-60-5	
Tetrachloroethene	**9.3**	mg/L	0.050	0.023	50		06/26/15 19:06	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.050	0.024	50		06/26/15 19:06	71-55-6	
Trichloroethene	ND	mg/L	0.050	0.024	50		06/26/15 19:06	79-01-6	
Vinyl chloride	ND	mg/L	0.050	0.031	50		06/26/15 19:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		50		06/26/15 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		50		06/26/15 19:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130		50		06/26/15 19:06	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0066**	mg/L	0.0020	0.0019	1		07/01/15 03:29	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		07/01/15 03:29	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		07/01/15 03:29	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		06/26/15 13:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/22/15 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	ND	mg/L	5.0	2.5	1		06/29/15 16:08	16887-00-6	
Sulfate	**3.2J**	mg/L	5.0	2.5	1		06/29/15 16:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.020	0.010	1		06/20/15 13:37		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.55J**	mg/L	1.0	0.50	1		06/26/15 19:50	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Sample: Trip Blank 4 **Lab ID: 92255340002** Collected: 06/18/15 00:00 Received: 06/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 14:19	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 14:19	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 14:19	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 14:19	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 14:19	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 14:19	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 14:19	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		06/25/15 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/25/15 14:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/25/15 14:19	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: AIR/23562
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255340001

METHOD BLANK: 2004828
Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/24/15 18:36	
Ethene	ug/L	ND	10.0	06/24/15 18:36	
Methane	ug/L	1.2J	10.0	06/24/15 18:36	

LABORATORY CONTROL SAMPLE & LCSD: 2004829 2004830

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	116	124	102	109	85-115	6	20	
Ethene	ug/L	106	108	115	101	108	85-115	6	20	
Methane	ug/L	60.7	61.3	65.0	101	107	85-115	6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2004832 2004833

Parameter	Units	1249017031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	15.1	114	114	119	130	91	101	54-148	9	20	
Ethene	ug/L	ND	106	106	96.9	105	91	99	50-150	8	20	
Methane	ug/L	ND	60.7	60.7	56.0	60.7	89	97	30-150	8	20	

SAMPLE DUPLICATE: 2004831

Parameter	Units	1249017012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	12.1		20	
Ethene	ug/L	ND	0.89J		20	
Methane	ug/L	8300	11600	33	20	E,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: MSV/32304
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255340002

METHOD BLANK: 1494285
Matrix: Water
Associated Lab Samples: 92255340002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 13:11	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 13:11	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 13:11	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 13:11	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 13:11	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 13:11	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 13:11	
Trichloroethene	mg/L	ND	0.0010	06/25/15 13:11	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 13:11	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/25/15 13:11	
4-Bromofluorobenzene (S)	%	108	70-130	06/25/15 13:11	
Toluene-d8 (S)	%	98	70-130	06/25/15 13:11	

LABORATORY CONTROL SAMPLE: 1494286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.054	108	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.054	108	70-132	
1,2-Dichloroethane	mg/L	.05	0.046	92	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	98	70-131	
Tetrachloroethene	mg/L	.05	0.053	105	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	104	70-130	
Trichloroethene	mg/L	.05	0.048	95	70-130	
Vinyl chloride	mg/L	.05	0.052	103	50-150	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1494287

Parameter	Units	92255362001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.022	108	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.020	100	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	126	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.017	87	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.019	97	70-130	
Tetrachloroethene	mg/L	ND	.02	0.023	113	70-130	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

MATRIX SPIKE SAMPLE: 1494287

Parameter	Units	92255362001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.021	107	70-130	
Trichloroethene	mg/L	ND	.02	0.021	106	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	115	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				108	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1494288

Parameter	Units	92255362003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	98	4		
4-Bromofluorobenzene (S)	%	110	110	0		
Toluene-d8 (S)	%	100	100	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: MSV/32329
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255340001

METHOD BLANK: 1496003
Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 11:11	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 11:11	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 11:11	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 11:11	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 11:11	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 11:11	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 11:11	
Trichloroethene	mg/L	ND	0.0010	06/26/15 11:11	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 11:11	
1,2-Dichloroethane-d4 (S)	%	98	70-130	06/26/15 11:11	
4-Bromofluorobenzene (S)	%	107	70-130	06/26/15 11:11	
Toluene-d8 (S)	%	101	70-130	06/26/15 11:11	

LABORATORY CONTROL SAMPLE: 1496004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.046	92	70-130	
1,1-Dichloroethane	mg/L	.05	0.044	87	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	103	70-132	
1,2-Dichloroethane	mg/L	.05	0.042	85	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.044	89	70-131	
Tetrachloroethene	mg/L	.05	0.048	96	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.046	93	70-130	
Trichloroethene	mg/L	.05	0.045	91	70-130	
Vinyl chloride	mg/L	.05	0.049	99	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: MSV/32388
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255340001

METHOD BLANK: 1498635
Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	06/30/15 19:36	
1,2-Dichloroethane-d4 (S)	%	104	50-150	06/30/15 19:36	
Toluene-d8 (S)	%	98	50-150	06/30/15 19:36	

LABORATORY CONTROL SAMPLE: 1498636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	100	71-125	
1,2-Dichloroethane-d4 (S)	%			106	50-150	
Toluene-d8 (S)	%			98	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: WET/31603
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255340001

METHOD BLANK: 1253893
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/26/15 12:14	

LABORATORY CONTROL SAMPLE: 1253894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	238	95	90-110	

SAMPLE DUPLICATE: 1253895

Parameter	Units	92255076029 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	38.0	35.9	6	20	

SAMPLE DUPLICATE: 1253896

Parameter	Units	92255526001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	113	112	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: WET/38287 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255340001

METHOD BLANK: 1490771 | Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/22/15 16:15	

LABORATORY CONTROL SAMPLE: 1490772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490773 1490774

Parameter	Units	92255177002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.55	0.55	111	111	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: WETA/47725
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255340001

METHOD BLANK: 1255492
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 09:01	
Sulfate	mg/L	ND	5.0	06/29/15 09:01	

LABORATORY CONTROL SAMPLE: 1255493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255494 1255495

Parameter	Units	92254780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5J	50	50	51.4	51.4	96	96	90-110	0	20	
Sulfate	mg/L	4.7J	50	50	51.8	51.9	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255496 1255497

Parameter	Units	92255012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	53.7	55.9	96	101	90-110	4	20	
Sulfate	mg/L	2.5J	50	50	48.9	51.1	93	97	90-110	4	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: WETA/23397
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255340001

METHOD BLANK: 1490566
Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/20/15 13:34	

LABORATORY CONTROL SAMPLE: 1490567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1490568 1490569

Parameter	Units	92255340001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.16	2.5	2.5	2.7	2.6	102	99	90-110	3	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

QC Batch: WETA/23489
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 92255340001

METHOD BLANK: 1495450
Matrix: Water
Associated Lab Samples: 92255340001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/26/15 14:31	

LABORATORY CONTROL SAMPLE: 1495451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495452 1495453

Parameter	Units	92254733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.4	25.3	101	101	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495454 1495455

Parameter	Units	92255813007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.6	25.4	101	101	90-110	1	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255340001	**AMW-8**	RSK 175	AIR/23562		
92255340001	**AMW-8**	EPA 8260	MSV/32329		
92255340002	**Trip Blank 4**	EPA 8260	MSV/32304		
92255340001	**AMW-8**	EPA 8260B Mod.	MSV/32388		
92255340001	**AMW-8**	SM 2320B	WET/31603		
92255340001	**AMW-8**	SM 4500-S2D	WET/38287		
92255340001	**AMW-8**	EPA 300.0	WETA/47725		
92255340001	**AMW-8**	EPA 353.2	WETA/23397		
92255340001	**AMW-8**	SM 5310B	WETA/23489		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earth Con

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 1.3 C **Biological Tissue Is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/20 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☑N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	NB	**Date:**	6-20-15
SRF Review:	NWG	**Date:**	6-22-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255340

92255340

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902586

Section A Required Client Information:

Company: Earthcon Consultants
Address: 1550 West Oak Parkway Bld 100 Ste 106, Marietta, GA 30062
Email To: krivera@earthcon.com
Phone: 770-973-2100 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH + ZnAce	$Na_2S_2O_3$	Methanol	Other Phos. Acid	Analysis Test (Y/N)	VOC	1,4-Dioxane	Methane, Ethane, Ethene	TOC	Sulfide	$Cl-SO_4$ AK	NO_3	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N								See QAPD
1	AMW-8	W	G			6-18-15	16:35		15	✓			✓	✓			✓		3	3	3	3	1	1	1		92255340 001
2	Trip Blank 4	W	–			—	—		2				✓						2								002
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				B. Petit	6-19	10:10				
				Matt Steuw AUL	6/24/15	1030	1.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Rivera
SIGNATURE of SAMPLER: Kristen Rivera
DATE Signed (MM/DD/YY): 6/19/2015

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
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(704)875-9092

July 20, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255581001	**ASW-1**	Water	06/22/15 13:45	06/23/15 11:15
92255581002	**ASW-2**	Water	06/22/15 14:00	06/23/15 11:15
92255581003	**ASW-BYPASS**	Water	06/22/15 14:30	06/23/15 11:15
92255581004	**AMW-11D**	Water	06/22/15 10:50	06/23/15 11:15

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255581001	**ASW-1**	EPA 8260	SNP	12	PASI-C
92255581002	**ASW-2**	EPA 8260	SNP	12	PASI-C
92255581003	**ASW-BYPASS**	EPA 8260	SNP	12	PASI-C
92255581004	**AMW-11D**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Sample: ASW-1 **Lab ID: 92255581001** Collected: 06/22/15 13:45 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		06/26/15 15:42	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0012	10		06/26/15 15:42	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.010	0.0056	10		06/26/15 15:42	75-35-4	
cis-1,2-Dichloroethene	**0.084**	mg/L	0.010	0.0019	10		06/26/15 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.010	0.0049	10		06/26/15 15:42	156-60-5	
Tetrachloroethene	**0.59**	mg/L	0.010	0.0046	10		06/26/15 15:42	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.010	0.0048	10		06/26/15 15:42	71-55-6	
Trichloroethene	**0.041**	mg/L	0.010	0.0047	10		06/26/15 15:42	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		06/26/15 15:42	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		10		06/26/15 15:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		10		06/26/15 15:42	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		06/26/15 15:42	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Sample: ASW-2 **Lab ID: 92255581002** Collected: 06/22/15 14:00 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/30/15 00:33	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/30/15 00:33	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/30/15 00:33	75-35-4	
cis-1,2-Dichloroethene	**0.0029**	mg/L	0.0010	0.00019	1		06/30/15 00:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/30/15 00:33	156-60-5	
Tetrachloroethene	**0.0074**	mg/L	0.0010	0.00046	1		06/30/15 00:33	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/30/15 00:33	71-55-6	
Trichloroethene	**0.00084J**	mg/L	0.0010	0.00047	1		06/30/15 00:33	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/30/15 00:33	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		06/30/15 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/30/15 00:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/30/15 00:33	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Sample: ASW-BYPASS **Lab ID: 92255581003** Collected: 06/22/15 14:30 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/30/15 00:50	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/30/15 00:50	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/30/15 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/30/15 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/30/15 00:50	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/30/15 00:50	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/30/15 00:50	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/30/15 00:50	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/30/15 00:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		06/30/15 00:50	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/30/15 00:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/30/15 00:50	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Sample: AMW-11D **Lab ID: 92255581004** Collected: 06/22/15 10:50 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/25/15 08:36	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/25/15 08:36	74-85-1	
Methane	**6.2J**	ug/L	10.0	0.63	1		06/25/15 08:36	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/26/15 15:26	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 15:26	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/26/15 15:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/26/15 15:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 15:26	156-60-5	
Tetrachloroethene	**0.0060**	mg/L	0.0010	0.00046	1		06/26/15 15:26	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/26/15 15:26	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/26/15 15:26	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/26/15 15:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		06/26/15 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/26/15 15:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/26/15 15:26	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 18:54	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		07/01/15 18:54	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 18:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**196**	mg/L	5.0	5.0	1		06/26/15 16:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/26/15 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6J**	mg/L	5.0	2.5	1		06/29/15 16:27	16887-00-6	
Sulfate	**12.2**	mg/L	5.0	2.5	1		06/29/15 16:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.023**	mg/L	0.020	0.010	1		06/23/15 22:07		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.87J**	mg/L	1.0	0.50	1		06/30/15 23:30	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: AIR/23564 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255581004

METHOD BLANK: 2005075 | Matrix: Water
Associated Lab Samples: 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/25/15 05:53	
Ethene	ug/L	ND	10.0	06/25/15 05:53	
Methane	ug/L	2.8J	10.0	06/25/15 05:53	

LABORATORY CONTROL SAMPLE & LCSD: 2005076 2005077

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	121	109	106	96	85-115	10	20	
Ethene	ug/L	106	113	102	106	96	85-115	10	20	
Methane	ug/L	60.7	64.1	58.2	106	96	85-115	10	20	

SAMPLE DUPLICATE: 2005078

Parameter	Units	92255569010 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	2.0J	2.0J		20	

SAMPLE DUPLICATE: 2005079

Parameter	Units	92255572005 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	3.1J	2.8J		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: MSV/32325 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255581001, 92255581004

METHOD BLANK: 1495711 | Matrix: Water
Associated Lab Samples: 92255581001, 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 10:54	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Trichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 10:54	
1,2-Dichloroethane-d4 (S)	%	99	70-130	06/26/15 10:54	
4-Bromofluorobenzene (S)	%	107	70-130	06/26/15 10:54	
Toluene-d8 (S)	%	100	70-130	06/26/15 10:54	

LABORATORY CONTROL SAMPLE: 1495712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.048	96	70-130	
1,1-Dichloroethane	mg/L	.05	0.045	90	70-130	
1,1-Dichloroethene	mg/L	.05	0.053	106	70-132	
1,2-Dichloroethane	mg/L	.05	0.042	84	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.045	91	70-131	
Tetrachloroethene	mg/L	.05	0.052	104	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.047	94	70-130	
Trichloroethene	mg/L	.05	0.048	97	70-130	
Vinyl chloride	mg/L	.05	0.052	105	50-150	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1495713

Parameter	Units	92255964007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.023	116	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.020	102	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	125	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.019	96	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Tetrachloroethene	mg/L	ND	.02	0.021	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

MATRIX SPIKE SAMPLE: 1495713

Parameter	Units	92255964007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.020	98	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	121	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1495714

Parameter	Units	92255964008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	109	7		
4-Bromofluorobenzene (S)	%	93	111	17		
Toluene-d8 (S)	%	100	104	5		

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: MSV/32361 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255581002, 92255581003

METHOD BLANK: 1497172 | Matrix: Water
Associated Lab Samples: 92255581002, 92255581003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/29/15 23:09	
1,1-Dichloroethane	mg/L	ND	0.0010	06/29/15 23:09	
1,1-Dichloroethene	mg/L	ND	0.0010	06/29/15 23:09	
1,2-Dichloroethane	mg/L	ND	0.0010	06/29/15 23:09	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/29/15 23:09	
Tetrachloroethene	mg/L	ND	0.0010	06/29/15 23:09	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/29/15 23:09	
Trichloroethene	mg/L	ND	0.0010	06/29/15 23:09	
Vinyl chloride	mg/L	ND	0.0010	06/29/15 23:09	
1,2-Dichloroethane-d4 (S)	%	105	70-130	06/29/15 23:09	
4-Bromofluorobenzene (S)	%	109	70-130	06/29/15 23:09	
Toluene-d8 (S)	%	100	70-130	06/29/15 23:09	

LABORATORY CONTROL SAMPLE: 1497173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.057	114	70-130	
1,1-Dichloroethane	mg/L	.05	0.056	111	70-130	
1,1-Dichloroethene	mg/L	.05	0.062	124	70-132	
1,2-Dichloroethane	mg/L	.05	0.054	108	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.055	110	70-131	
Tetrachloroethene	mg/L	.05	0.052	104	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.060	119	70-130	
Trichloroethene	mg/L	.05	0.052	105	70-130	
Vinyl chloride	mg/L	.05	0.061	122	50-150	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1497174

Parameter	Units	92256138003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.71J ug/L	.02	0.024	114	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	112	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	127	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.020	98	70-130	
cis-1,2-Dichloroethene	mg/L	2.1 ug/L	.02	0.025	115	70-130	
Tetrachloroethene	mg/L	0.97J ug/L	.02	0.023	110	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

MATRIX SPIKE SAMPLE: 1497174

Parameter	Units	92256138003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.024	120	70-130	
Trichloroethene	mg/L	27.8 ug/L	.02	0.050	110	69-151	
Vinyl chloride	mg/L	ND	.02	0.025	124	70-130	
1,2-Dichloroethane-d4 (S)	%				93	70-130	
4-Bromofluorobenzene (S)	%				112	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1497175

Parameter	Units	92256138004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	13.5 ug/L	0.013	7	30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	81.2 ug/L	0.080	1	30	
Vinyl chloride	mg/L	3.5 ug/L	0.0032	10	30	
1,2-Dichloroethane-d4 (S)	%	111	95	16		
4-Bromofluorobenzene (S)	%	110	111	1		
Toluene-d8 (S)	%	100	101	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: MSV/32397
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255581004

METHOD BLANK: 1499592
Matrix: Water
Associated Lab Samples: 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: WET/31607
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255581004

METHOD BLANK: 1254076
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/26/15 14:21	

LABORATORY CONTROL SAMPLE: 1254077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 1254078

Parameter	Units	35194401001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	240	240	0	20	

SAMPLE DUPLICATE: 1254079

Parameter	Units	92255526008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	101	103	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: WET/38411 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255581004

METHOD BLANK: 1495500 | Matrix: Water
Associated Lab Samples: 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/26/15 15:00	

LABORATORY CONTROL SAMPLE: 1495501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495502 1495503

Parameter	Units	92255563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.51	0.51	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495504 1495505

Parameter	Units	92255563005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.44	0.44	85	85	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: WETA/47725
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255581004

METHOD BLANK: 1255492
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 09:01	
Sulfate	mg/L	ND	5.0	06/29/15 09:01	

LABORATORY CONTROL SAMPLE: 1255493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255494 1255495

Parameter	Units	92254780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5J	50	50	51.4	51.4	96	96	90-110	0	20	
Sulfate	mg/L	4.7J	50	50	51.8	51.9	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255496 1255497

Parameter	Units	92255012004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	53.7	55.9	96	101	90-110	4	20	
Sulfate	mg/L	2.5J	50	50	48.9	51.1	93	97	90-110	4	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: WETA/23437
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255581004

METHOD BLANK: 1492740
Matrix: Water
Associated Lab Samples: 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/23/15 21:38	

LABORATORY CONTROL SAMPLE: 1492741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1492742 1492743

Parameter	Units	92255526012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.67	2.5	2.5	3.0	3.0	94	94	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1492744 1492745

Parameter	Units	92255526013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.68	2.5	2.5	2.9	3.0	90	91	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

QC Batch: WETA/23536 | Analysis Method: SM 5310B
QC Batch Method: SM 5310B | Analysis Description: 5310B TOC
Associated Lab Samples: 92255581004

METHOD BLANK: 1497933 | Matrix: Water
Associated Lab Samples: 92255581004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/30/15 21:43	

LABORATORY CONTROL SAMPLE: 1497934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497935 1497936

Parameter	Units	92255076029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1910 ug/L	25	25	26.4	26.3	98	98	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497937 1497938

Parameter	Units	92256033004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	25.3	25.2	100	99	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

SAMPLE QUALIFIERS

Sample: 92255581004

[1] The sample was not collected in the appropriate container for headspace analysis.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255581004	**AMW-11D**	RSK 175	AIR/23564		
92255581001	**ASW-1**	EPA 8260	MSV/32325		
92255581002	**ASW-2**	EPA 8260	MSV/32361		
92255581003	**ASW-BYPASS**	EPA 8260	MSV/32361		
92255581004	**AMW-11D**	EPA 8260	MSV/32325		
92255581004	**AMW-11D**	EPA 8260B Mod.	MSV/32397		
92255581004	**AMW-11D**	SM 2320B	WET/31607		
92255581004	**AMW-11D**	SM 4500-S2D	WET/38411		
92255581004	**AMW-11D**	EPA 300.0	WETA/47725		
92255581004	**AMW-11D**	EPA 353.2	WETA/23437		
92255581004	**AMW-11D**	SM 5310B	WETA/23536		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 - 130265963 **Type of Ice:** Wet Blue None ☑ Samples on Ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 2.9 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 6/23/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☑No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG **Date:** 6-23-15

SRF Review: AMB **Date:** 6-24-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255581

92255581

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902588

Section A Required Client Information:
Company: EarthCon Consultants
Address: 1880 West Oak Pkwy Bldg C Ste 100 Marietta, GA 30062
Email To: kriverra@earthcon.com
Phone: 770-973-2100 Fax: 770-973-7315
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140392.00

Section C Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH + Zn Ace.	$Na_2S_2O_3$	Methanol	Other Phos. Acid	Analysis Test (Y/N) VOCs 8260	1,4-Dioxane	Methane, Ethane, Ethene	TOC	Sulfide	Cl^- $SO_4^=$ Alk	NO_3	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ASW-1	WT	G	6/22/15	1345				3				3					3									001
2	ASW-2	WT	G	6/22/15	1400				3				3					3									002
3	ASW-BYPASS	WT	G	6/22/15	1430				3				3					3									003
4	AMW-11D	WT	G	6/22/15	1050				155				6	1			3	3	3	3	3	1	1	1			004
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Requested Analysis Filtered (Y/N)

See QAPD

92255581

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	06/22/15	1540	B. Petit	6-22	1540				
				[signature] ASH	6/22/15	1115	2.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kristen Rivera
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/22/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255584001	**MW-23**	Water	06/22/15 13:50	06/23/15 11:15
92255584002	**ASW-1 UPSTREAM**	Water	06/22/15 13:30	06/23/15 11:15

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92255584001	**MW-23**	EPA 8260	SNP	12
		EPA 8260B Mod.	DLK	3
92255584002	**ASW-1 UPSTREAM**	EPA 8260	SNP	12

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Sample: MW-23 **Lab ID: 92255584001** Collected: 06/22/15 13:50 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/26/15 14:52	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 14:52	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/26/15 14:52	75-35-4	
cis-1,2-Dichloroethene	**0.0015**	mg/L	0.0010	0.00019	1		06/26/15 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 14:52	156-60-5	
Tetrachloroethene	**0.0086**	mg/L	0.0010	0.00046	1		06/26/15 14:52	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/26/15 14:52	71-55-6	
Trichloroethene	**0.0033**	mg/L	0.0010	0.00047	1		06/26/15 14:52	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/26/15 14:52	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		06/26/15 14:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/26/15 14:52	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/26/15 14:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 19:14	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	50-150		1		07/01/15 19:14	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		07/01/15 19:14	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Sample: ASW-1 UPSTREAM **Lab ID: 92255584002** Collected: 06/22/15 13:30 Received: 06/23/15 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/26/15 15:09	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 15:09	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/26/15 15:09	75-35-4	
cis-1,2-Dichloroethene	**0.00045J**	mg/L	0.0010	0.00019	1		06/26/15 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 15:09	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/26/15 15:09	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/26/15 15:09	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/26/15 15:09	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/26/15 15:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		06/26/15 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/26/15 15:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/26/15 15:09	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

QC Batch: MSV/32325 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255584001, 92255584002

METHOD BLANK: 1495711 | Matrix: Water
Associated Lab Samples: 92255584001, 92255584002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 10:54	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 10:54	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Trichloroethene	mg/L	ND	0.0010	06/26/15 10:54	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 10:54	
1,2-Dichloroethane-d4 (S)	%	99	70-130	06/26/15 10:54	
4-Bromofluorobenzene (S)	%	107	70-130	06/26/15 10:54	
Toluene-d8 (S)	%	100	70-130	06/26/15 10:54	

LABORATORY CONTROL SAMPLE: 1495712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.048	96	70-130	
1,1-Dichloroethane	mg/L	.05	0.045	90	70-130	
1,1-Dichloroethene	mg/L	.05	0.053	106	70-132	
1,2-Dichloroethane	mg/L	.05	0.042	84	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.045	91	70-131	
Tetrachloroethene	mg/L	.05	0.052	104	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.047	94	70-130	
Trichloroethene	mg/L	.05	0.048	97	70-130	
Vinyl chloride	mg/L	.05	0.052	105	50-150	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1495713

Parameter	Units	92255964007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.023	116	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.020	102	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	125	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.019	96	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Tetrachloroethene	mg/L	ND	.02	0.021	104	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

MATRIX SPIKE SAMPLE: 1495713

Parameter	Units	92255964007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.020	98	69-151	
Vinyl chloride	mg/L	ND	.02	0.024	121	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				111	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1495714

Parameter	Units	92255964008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	ND	ND		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	109	7		
4-Bromofluorobenzene (S)	%	93	111	17		
Toluene-d8 (S)	%	100	104	5		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

QC Batch: MSV/32397
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255584001

METHOD BLANK: 1499592
Matrix: Water
Associated Lab Samples: 92255584001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255584

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255584001	**MW-23**	EPA 8260	MSV/32325		
92255584002	**ASW-1 UPSTREAM**	EPA 8260	MSV/32325		
92255584001	**MW-23**	EPA 8260B Mod.	MSV/32397		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on Ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 2.9 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 6/23/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☑No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	MMG	Date:	6-23-15
SRF Review:	AMB	Date:	6-24-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255584

92255584

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1902587

Section A Required Client Information:
Company: EarthCon Consultants, Inc.
Address: 1860 West Oak Pkwy Ste 100
Marietta, GA 30062
Email To: L.Rivera@Earthcon.com
Phone: 770-973-2000 Fax: 770-973-7395
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.20140312.00

Section C Invoice Information:
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs 8260	1,4-Dioxane 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-23	WT	G	6/22/15	1350				6				6					3	3			001
2	ASW-1 UPSTREAM	WT	G	6/22/15	1330				3				3					3				002
3																						
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See QAPD

92255584

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	06/22/15	1540	B Petit	6-22	1540				
				[signature] ASH	6/23/15	11:15	2.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kent Dean
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/22/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 20, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255783001	**AMW-10**	Water	06/22/15 17:05	06/24/15 11:30
92255783002	**AMW-13**	Water	06/22/15 20:05	06/24/15 11:30
92255783003	**DMW-3**	Water	06/23/15 10:10	06/24/15 11:30
92255783004	**DMW-5**	Water	06/23/15 09:40	06/24/15 11:30
92255783005	**ARW-2**	Water	06/23/15 10:00	06/24/15 11:30
92255783006	**DMW-1**	Water	06/23/15 12:15	06/24/15 11:30
92255783007	**DMW-2**	Water	06/23/15 12:55	06/24/15 11:30
92255783008	**DMW-6**	Water	06/23/15 13:00	06/24/15 11:30
92255783009	**EB-2**	Water	06/23/15 14:00	06/24/15 11:30
92255783010	**Trip Blank**	Water	06/23/15 00:00	06/24/15 11:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255783001	**AMW-10**	RSK 175	SH2	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783002	**AMW-13**	RSK 175	SH2	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783003	**DMW-3**	RSK 175	JRB	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783004	**DMW-5**	RSK 175	JRB	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783005	**ARW-2**	RSK 175	JRB	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783006	**DMW-1**	RSK 175	JRB	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783007	**DMW-2**	RSK 175	SH2	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783008	**DMW-6**	RSK 175	SH2	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255783009	**EB-2**	EPA 8260	CAH	12	PASI-C
92255783010	**Trip Blank**	EPA 8260	CAH	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: AMW-10 **Lab ID: 92255783001** Collected: 06/22/15 17:05 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 08:36	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 08:36	74-85-1	
Methane	**9.5J**	ug/L	10.0	0.63	1		06/26/15 08:36	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.025	0.0080	25		06/26/15 02:43	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.025	0.0030	25		06/26/15 02:43	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.025	0.014	25		06/26/15 02:43	75-35-4	
cis-1,2-Dichloroethene	**0.016J**	mg/L	0.025	0.0048	25		06/26/15 02:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.025	0.012	25		06/26/15 02:43	156-60-5	
Tetrachloroethene	**31.8**	mg/L	0.40	0.18	400		06/26/15 22:53	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.025	0.012	25		06/26/15 02:43	71-55-6	
Trichloroethene	**0.053**	mg/L	0.025	0.012	25		06/26/15 02:43	79-01-6	
Vinyl chloride	ND	mg/L	0.025	0.016	25		06/26/15 02:43	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		25		06/26/15 02:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		25		06/26/15 02:43	17060-07-0	
Toluene-d8 (S)	98	%	70-130		25		06/26/15 02:43	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0057**	mg/L	0.0020	0.0019	1		07/01/15 19:35	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%	50-150		1		07/01/15 19:35	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		07/01/15 19:35	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**58.3**	mg/L	5.0	5.0	1		06/27/15 10:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/26/15 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.4J**	mg/L	5.0	2.5	1		06/29/15 22:55	16887-00-6	
Sulfate	**3.1J**	mg/L	5.0	2.5	1		06/29/15 22:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.12**	mg/L	0.020	0.010	1		06/24/15 16:32		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.3**	mg/L	1.0	0.50	1		07/02/15 21:52	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: AMW-13 **Lab ID: 92255783002** Collected: 06/22/15 20:05 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 02:46	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 02:46	74-85-1	
Methane	**5.7J**	ug/L	10.0	0.63	1		06/26/15 02:46	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.25	0.080	250		06/27/15 03:34	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.25	0.030	250		06/27/15 03:34	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.25	0.14	250		06/27/15 03:34	75-35-4	
cis-1,2-Dichloroethene	**1.3**	mg/L	0.25	0.048	250		06/27/15 03:34	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.25	0.12	250		06/27/15 03:34	156-60-5	
Tetrachloroethene	**22.8**	mg/L	0.25	0.12	250		06/27/15 03:34	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.25	0.12	250		06/27/15 03:34	71-55-6	
Trichloroethene	**0.74**	mg/L	0.25	0.12	250		06/27/15 03:34	79-01-6	
Vinyl chloride	ND	mg/L	0.25	0.16	250		06/27/15 03:34	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		250		06/27/15 03:34	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		250		06/27/15 03:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130		250		06/27/15 03:34	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 19:55	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	113	%	50-150		1		07/01/15 19:55	17060-07-0	
Toluene-d8 (S)	97	%	50-150		1		07/01/15 19:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**219**	mg/L	5.0	5.0	1		06/27/15 10:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/26/15 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**96.9**	mg/L	5.0	2.5	1		06/29/15 17:49	16887-00-6	
Sulfate	**10.0**	mg/L	5.0	2.5	1		06/29/15 17:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.2**	mg/L	0.020	0.010	1		06/24/15 16:35		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.6J**	mg/L	2.0	1.0	2		07/03/15 12:41	7440-44-0	D3

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: DMW-3 **Lab ID: 92255783003** Collected: 06/23/15 10:10 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 09:33	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 09:33	74-85-1	
Methane	**4.3J**	ug/L	10.0	0.63	1		06/26/15 09:33	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0098**	mg/L	0.0050	0.0016	5		06/26/15 03:16	75-34-3	
1,2-Dichloroethane	**0.00063J**	mg/L	0.0050	0.00060	5		06/26/15 03:16	107-06-2	
1,1-Dichloroethene	**0.18**	mg/L	0.0050	0.0028	5		06/26/15 03:16	75-35-4	
cis-1,2-Dichloroethene	**0.55**	mg/L	0.0050	0.00095	5		06/26/15 03:16	156-59-2	
trans-1,2-Dichloroethene	**0.0048J**	mg/L	0.0050	0.0024	5		06/26/15 03:16	156-60-5	
Tetrachloroethene	**2.1**	mg/L	0.020	0.0092	20		06/26/15 23:10	127-18-4	
1,1,1-Trichloroethane	**0.10**	mg/L	0.0050	0.0024	5		06/26/15 03:16	71-55-6	
Trichloroethene	**0.23**	mg/L	0.0050	0.0024	5		06/26/15 03:16	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		06/26/15 03:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		5		06/26/15 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		5		06/26/15 03:16	17060-07-0	
Toluene-d8 (S)	98	%	70-130		5		06/26/15 03:16	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.11**	mg/L	0.0050	0.0048	2.5		07/02/15 12:20	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%	50-150		1		07/01/15 20:16	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		07/01/15 20:16	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**213**	mg/L	5.0	5.0	1		06/27/15 10:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.9**	mg/L	5.0	2.5	1		06/29/15 18:11	16887-00-6	
Sulfate	**5.5**	mg/L	5.0	2.5	1		06/29/15 18:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.020	0.010	1		06/24/15 16:39		M1
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		07/02/15 22:34	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: DMW-5 **Lab ID: 92255783004** Collected: 06/23/15 09:40 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 09:41	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 09:41	74-85-1	
Methane	**5.4J**	ug/L	10.0	0.63	1		06/26/15 09:41	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0052**	mg/L	0.0050	0.0016	5		06/26/15 01:37	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	0.00060	5		06/26/15 01:37	107-06-2	
1,1-Dichloroethene	**0.029**	mg/L	0.0050	0.0028	5		06/26/15 01:37	75-35-4	
cis-1,2-Dichloroethene	**0.20**	mg/L	0.0050	0.00095	5		06/26/15 01:37	156-59-2	
trans-1,2-Dichloroethene	**0.0086**	mg/L	0.0050	0.0024	5		06/26/15 01:37	156-60-5	
Tetrachloroethene	**0.56**	mg/L	0.0050	0.0023	5		06/26/15 01:37	127-18-4	
1,1,1-Trichloroethane	**0.016**	mg/L	0.0050	0.0024	5		06/26/15 01:37	71-55-6	
Trichloroethene	**0.48**	mg/L	0.0050	0.0024	5		06/26/15 01:37	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		06/26/15 01:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		5		06/26/15 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		5		06/26/15 01:37	17060-07-0	
Toluene-d8 (S)	98	%	70-130		5		06/26/15 01:37	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0053**	mg/L	0.0020	0.0019	1		07/02/15 12:41	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		07/02/15 12:41	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		07/02/15 12:41	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**218**	mg/L	5.0	5.0	1		06/27/15 10:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.3**	mg/L	5.0	2.5	1		06/29/15 18:33	16887-00-6	
Sulfate	**7.9**	mg/L	5.0	2.5	1		06/29/15 18:33	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.2**	mg/L	0.020	0.010	1		06/24/15 16:37		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.82J**	mg/L	1.0	0.50	1		07/02/15 22:44	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: ARW-2 **Lab ID: 92255783005** Collected: 06/23/15 10:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 09:49	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 09:49	74-85-1	
Methane	**11.3**	ug/L	10.0	0.63	1		06/26/15 09:49	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.010	0.0032	10		06/26/15 01:53	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0012	10		06/26/15 01:53	107-06-2	
1,1-Dichloroethene	**0.037**	mg/L	0.010	0.0056	10		06/26/15 01:53	75-35-4	
cis-1,2-Dichloroethene	**0.12**	mg/L	0.010	0.0019	10		06/26/15 01:53	156-59-2	
trans-1,2-Dichloroethene	**0.0062J**	mg/L	0.010	0.0049	10		06/26/15 01:53	156-60-5	
Tetrachloroethene	**1.3**	mg/L	0.010	0.0046	10		06/26/15 01:53	127-18-4	
1,1,1-Trichloroethane	**0.031**	mg/L	0.010	0.0048	10		06/26/15 01:53	71-55-6	
Trichloroethene	**0.051**	mg/L	0.010	0.0047	10		06/26/15 01:53	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		06/26/15 01:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		10		06/26/15 01:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		10		06/26/15 01:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		06/26/15 01:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0047**	mg/L	0.0020	0.0019	1		07/01/15 20:57	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	50-150		1		07/01/15 20:57	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 20:57	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**194**	mg/L	5.0	5.0	1		06/27/15 11:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.8**	mg/L	5.0	2.5	1		06/29/15 18:56	16887-00-6	
Sulfate	**9.8**	mg/L	5.0	2.5	1		06/29/15 18:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.9**	mg/L	0.020	0.010	1		06/24/15 16:38		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.2**	mg/L	1.0	0.50	1		07/02/15 22:55	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: DMW-1 **Lab ID: 92255783006** Collected: 06/23/15 12:15 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 09:58	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 09:58	74-85-1	
Methane	**7.3J**	ug/L	10.0	0.63	1		06/26/15 09:58	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.010**	mg/L	0.0050	0.0016	5		06/26/15 02:10	75-34-3	
1,2-Dichloroethane	**0.0011J**	mg/L	0.0050	0.00060	5		06/26/15 02:10	107-06-2	
1,1-Dichloroethene	**0.76**	mg/L	0.0050	0.0028	5		06/26/15 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	0.00095	5		06/26/15 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	0.0024	5		06/26/15 02:10	156-60-5	
Tetrachloroethene	**0.0028J**	mg/L	0.0050	0.0023	5		06/26/15 02:10	127-18-4	
1,1,1-Trichloroethane	**0.41**	mg/L	0.0050	0.0024	5		06/26/15 02:10	71-55-6	
Trichloroethene	ND	mg/L	0.0050	0.0024	5		06/26/15 02:10	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		06/26/15 02:10	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		5		06/26/15 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		5		06/26/15 02:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		06/26/15 02:10	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.011**	mg/L	0.0020	0.0019	1		07/01/15 21:18	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	117	%	50-150		1		07/01/15 21:18	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 21:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**216**	mg/L	5.0	5.0	1		06/27/15 11:32		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8J**	mg/L	5.0	2.5	1		06/29/15 19:18	16887-00-6	
Sulfate	**7.6**	mg/L	5.0	2.5	1		06/29/15 19:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		06/24/15 16:48		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.1**	mg/L	1.0	0.50	1		07/02/15 23:05	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: DMW-2 **Lab ID: 92255783007** Collected: 06/23/15 12:55 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 08:12	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 08:12	74-85-1	
Methane	**4.9J**	ug/L	10.0	0.63	1		06/26/15 08:12	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 23:58	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 23:58	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 23:58	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 23:58	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 23:58	156-60-5	
Tetrachloroethene	**0.0030**	mg/L	0.0010	0.00046	1		06/25/15 23:58	127-18-4	
1,1,1-Trichloroethane	**0.00055J**	mg/L	0.0010	0.00048	1		06/25/15 23:58	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 23:58	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 23:58	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/25/15 23:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/25/15 23:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/25/15 23:58	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0069**	mg/L	0.0020	0.0019	1		07/01/15 21:38	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%	50-150		1		07/01/15 21:38	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 21:38	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**145**	mg/L	5.0	5.0	1		06/27/15 11:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2J**	mg/L	5.0	2.5	1		06/29/15 19:40	16887-00-6	
Sulfate	**25.3**	mg/L	5.0	2.5	1		06/29/15 19:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.15**	mg/L	0.020	0.010	1		06/24/15 16:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.62J**	mg/L	1.0	0.50	1		07/02/15 23:37	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: DMW-6 **Lab ID: 92255783008** Collected: 06/23/15 13:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 08:20	74-84-0	
Ethene	**42.1**	ug/L	10.0	0.47	1		06/26/15 08:20	74-85-1	
Methane	**4780**	ug/L	10.0	0.63	1		06/26/15 08:20	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.015**	mg/L	0.0010	0.00032	1		06/26/15 01:20	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 01:20	107-06-2	
1,1-Dichloroethene	**0.013**	mg/L	0.0010	0.00056	1		06/26/15 01:20	75-35-4	
cis-1,2-Dichloroethene	**0.049**	mg/L	0.0010	0.00019	1		06/26/15 01:20	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 01:20	156-60-5	
Tetrachloroethene	**0.16**	mg/L	0.0010	0.00046	1		06/26/15 01:20	127-18-4	
1,1,1-Trichloroethane	**0.028**	mg/L	0.0010	0.00048	1		06/26/15 01:20	71-55-6	
Trichloroethene	**0.082**	mg/L	0.0010	0.00047	1		06/26/15 01:20	79-01-6	
Vinyl chloride	**0.067**	mg/L	0.0010	0.00062	1		06/26/15 01:20	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/26/15 01:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/26/15 01:20	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/26/15 01:20	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.023**	mg/L	0.0020	0.0019	1		07/01/15 21:59	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	114	%	50-150		1		07/01/15 21:59	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 21:59	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**386**	mg/L	5.0	5.0	1		06/27/15 11:46		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.4J**	mg/L	5.0	2.5	1		06/29/15 20:02	16887-00-6	
Sulfate	**5.7**	mg/L	5.0	2.5	1		06/29/15 20:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		06/24/15 16:58		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**4.0**	mg/L	1.0	0.50	1		07/02/15 23:47	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: EB-2 **Lab ID: 92255783009** Collected: 06/23/15 14:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 19:50	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 19:50	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 19:50	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 19:50	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 19:50	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 19:50	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 19:50	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 19:50	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 19:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/25/15 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		06/25/15 19:50	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/25/15 19:50	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Sample: Trip Blank **Lab ID: 92255783010** Collected: 06/23/15 00:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 20:07	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 20:07	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 20:07	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 20:07	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 20:07	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 20:07	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 20:07	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 20:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/25/15 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/25/15 20:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/25/15 20:07	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: AIR/23572
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255783002

METHOD BLANK: 2006567
Matrix: Water
Associated Lab Samples: 92255783002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/26/15 02:37	
Ethene	ug/L	ND	10.0	06/26/15 02:37	
Methane	ug/L	4.8J	10.0	06/26/15 02:37	

LABORATORY CONTROL SAMPLE & LCSD: 2006568 2006569

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	118	120	104	105	85-115	1	20	
Ethene	ug/L	106	110	111	104	105	85-115	1	20	
Methane	ug/L	60.7	63.1	63.4	104	104	85-115	0	20	

SAMPLE DUPLICATE: 2006570

Parameter	Units	92255783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	5.7J	5.8J		20	

SAMPLE DUPLICATE: 2006571

Parameter	Units	92255763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	6.1J	6.4J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: AIR/23573 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255783001, 92255783007, 92255783008

METHOD BLANK: 2006572 Matrix: Water
Associated Lab Samples: 92255783001, 92255783007, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/26/15 05:53	
Ethene	ug/L	ND	10.0	06/26/15 05:53	
Methane	ug/L	3.1J	10.0	06/26/15 05:53	

LABORATORY CONTROL SAMPLE & LCSD: 2006573 2006574

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	120	119	105	105	85-115	0	20	
Ethene	ug/L	106	111	111	105	105	85-115	0	20	
Methane	ug/L	60.7	63.4	63.2	104	104	85-115	0	20	

SAMPLE DUPLICATE: 2006575

Parameter	Units	92255813003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	4.9J	4.9J		20	

SAMPLE DUPLICATE: 2006576

Parameter	Units	92255813012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	1040	1120	8	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: AIR/23574 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255783003, 92255783004, 92255783005, 92255783006

METHOD BLANK: 2006577 Matrix: Water
Associated Lab Samples: 92255783003, 92255783004, 92255783005, 92255783006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/26/15 09:09	
Ethene	ug/L	ND	10.0	06/26/15 09:09	
Methane	ug/L	3.1J	10.0	06/26/15 09:09	

LABORATORY CONTROL SAMPLE & LCSD: 2006578 2006579

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	119	120	105	105	85-115	1	20	
Ethene	ug/L	106	111	112	105	105	85-115	1	20	
Methane	ug/L	60.7	63.2	63.6	104	105	85-115	1	20	

SAMPLE DUPLICATE: 2006580

Parameter	Units	92255747003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	6.1J	6.8J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: MSV/32317 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255783007, 92255783009, 92255783010

METHOD BLANK: 1495032 Matrix: Water
Associated Lab Samples: 92255783007, 92255783009, 92255783010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 19:17	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Trichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 19:17	
1,2-Dichloroethane-d4 (S)	%	101	70-130	06/25/15 19:17	
4-Bromofluorobenzene (S)	%	103	70-130	06/25/15 19:17	
Toluene-d8 (S)	%	100	70-130	06/25/15 19:17	

LABORATORY CONTROL SAMPLE: 1495033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	96	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	103	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	98	70-131	
Tetrachloroethene	mg/L	.05	0.050	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	100	70-130	
Trichloroethene	mg/L	.05	0.048	96	70-130	
Vinyl chloride	mg/L	.05	0.050	99	50-150	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1495034

Parameter	Units	92255765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	118	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	110	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	125	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	105	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	112	70-130	
Tetrachloroethene	mg/L	ND	.02	0.023	114	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

MATRIX SPIKE SAMPLE: 1495034

Parameter	Units	92255765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	117	70-130	
Trichloroethene	mg/L	ND	.02	0.022	110	69-151	
Vinyl chloride	mg/L	ND	.02	0.025	123	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1495035

Parameter	Units	92255765002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	55.2 ug/L	0.059	6	30	
Tetrachloroethene	mg/L	27.1 ug/L	0.029	5	30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	73.1 ug/L	0.078	6	30	
Vinyl chloride	mg/L	2.3 ug/L	0.0026	11	30	
1,2-Dichloroethane-d4 (S)	%	102	99	4		
4-Bromofluorobenzene (S)	%	102	100	3		
Toluene-d8 (S)	%	99	99	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: MSV/32318 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255783001, 92255783003, 92255783004, 92255783005, 92255783006, 92255783008

METHOD BLANK: 1495041 Matrix: Water
Associated Lab Samples: 92255783001, 92255783003, 92255783004, 92255783005, 92255783006, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 19:34	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Trichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 19:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/25/15 19:34	
4-Bromofluorobenzene (S)	%	102	70-130	06/25/15 19:34	
Toluene-d8 (S)	%	100	70-130	06/25/15 19:34	

LABORATORY CONTROL SAMPLE: 1495042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.051	101	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	95	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	101	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.049	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.049	98	70-130	
Trichloroethene	mg/L	.05	0.047	95	70-130	
Vinyl chloride	mg/L	.05	0.049	97	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1495043

Parameter	Units	92255783004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.016	.1	0.14	125	70-130	
1,1-Dichloroethane	mg/L	0.0052	.1	0.12	114	70-130	
1,1-Dichloroethene	mg/L	0.029	.1	0.16	130	70-166	
1,2-Dichloroethane	mg/L	ND	.1	0.11	108	70-130	
cis-1,2-Dichloroethene	mg/L	0.20	.1	0.33	134	70-130	
Tetrachloroethene	mg/L	0.56	.1	0.76	198	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

MATRIX SPIKE SAMPLE: 1495043

Parameter	Units	92255783004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	0.0086	.1	0.13	121	70-130	
Trichloroethene	mg/L	0.48	.1	0.68	196	69-151	
Vinyl chloride	mg/L	ND	.1	0.12	123	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1495044

Parameter	Units	92255783005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	0.031	0.032	2	30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	0.037	0.037	2	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.12	0.13	3	30	
Tetrachloroethene	mg/L	1.3	1.3	0	30	
trans-1,2-Dichloroethene	mg/L	0.0062J	0.0066J		30	
Trichloroethene	mg/L	0.051	0.051	0	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	99	1		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: MSV/32337
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255783002

METHOD BLANK: 1496219
Matrix: Water
Associated Lab Samples: 92255783002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 21:31	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 21:31	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 21:31	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 21:31	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 21:31	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 21:31	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 21:31	
Trichloroethene	mg/L	ND	0.0010	06/26/15 21:31	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 21:31	
1,2-Dichloroethane-d4 (S)	%	100	70-130	06/26/15 21:31	
4-Bromofluorobenzene (S)	%	101	70-130	06/26/15 21:31	
Toluene-d8 (S)	%	101	70-130	06/26/15 21:31	

LABORATORY CONTROL SAMPLE: 1496220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.053	106	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.053	106	70-132	
1,2-Dichloroethane	mg/L	.05	0.049	97	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	101	70-131	
Tetrachloroethene	mg/L	.05	0.049	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	105	70-130	
Trichloroethene	mg/L	.05	0.049	97	70-130	
Vinyl chloride	mg/L	.05	0.053	105	50-150	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1496221

Parameter	Units	92256204002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.023	117	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.021	107	70-130	
1,1-Dichloroethene	mg/L	1.2 ug/L	.02	0.025	120	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	104	70-130	
cis-1,2-Dichloroethene	mg/L	1.8 ug/L	.02	0.024	108	70-130	
Tetrachloroethene	mg/L	10.1 ug/L	.02	0.033	114	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

MATRIX SPIKE SAMPLE: 1496221

Parameter	Units	92256204002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.022	110	70-130	
Trichloroethene	mg/L	ND	.02	0.023	109	69-151	
Vinyl chloride	mg/L	ND	.02	0.023	116	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1496222

Parameter	Units	92256204004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	37.9 ug/L	0.040	4	30	
Tetrachloroethene	mg/L	2.6 ug/L	0.00087J		30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	1.3 ug/L	0.0014	11	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	103	3		
4-Bromofluorobenzene (S)	%	104	104	1		
Toluene-d8 (S)	%	102	99	3		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: MSV/32397 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1499592 Matrix: Water
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783005, 92255783006, 92255783007, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: MSV/32412
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255783004

METHOD BLANK: 1500566
Matrix: Water
Associated Lab Samples: 92255783004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/02/15 11:18	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/02/15 11:18	
Toluene-d8 (S)	%	91	50-150	07/02/15 11:18	

LABORATORY CONTROL SAMPLE: 1500567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	97	71-125	
1,2-Dichloroethane-d4 (S)	%			108	50-150	
Toluene-d8 (S)	%			91	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WET/31617 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1255032 | Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/27/15 09:59	

LABORATORY CONTROL SAMPLE: 1255033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	239	95	90-110	

SAMPLE DUPLICATE: 1255034

Parameter	Units	92255718001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	207	205	1	20	

SAMPLE DUPLICATE: 1255035

Parameter	Units	92255917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	240	238	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WET/38411 — Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255783001, 92255783002

METHOD BLANK: 1495500 — Matrix: Water
Associated Lab Samples: 92255783001, 92255783002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/26/15 15:00	

LABORATORY CONTROL SAMPLE: 1495501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495502 — 1495503

Parameter	Units	92255563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.51	0.51	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495504 — 1495505

Parameter	Units	92255563005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.44	0.44	85	85	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WET/38442 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1496710 Matrix: Water
Associated Lab Samples: 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/29/15 14:45	

LABORATORY CONTROL SAMPLE: 1496711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496712 1496713

Parameter	Units	92255783003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.45	0.45	90	90	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496714 1496715

Parameter	Units	92255788004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.22	0.22	44	44	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WETA/47724 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1255484 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 10:04	
Sulfate	mg/L	ND	5.0	06/29/15 10:04	

LABORATORY CONTROL SAMPLE: 1255485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255486 1255487

Parameter	Units	35194635001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	45.1	50	50	99.8	99.9	109	110	90-110	0	20	
Sulfate	mg/L	2.5U	50	50	49.0	49.0	93	93	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255488 1255489

Parameter	Units	92255485001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.6	50	50	54.7	55.3	98	99	90-110	1	20	
Sulfate	mg/L	ND	50	50	52.6	53.2	97	98	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WETA/47726
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255783001

METHOD BLANK: 1255498
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 18:43	
Sulfate	mg/L	ND	5.0	06/29/15 18:43	

LABORATORY CONTROL SAMPLE: 1255499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255500 1255501

Parameter	Units	92255784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	50	50	62.0	62.0	97	97	90-110	0	20	
Sulfate	mg/L	13.1	50	50	61.7	61.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255804 1255805

Parameter	Units	35193997002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	337	250	250	584	574	99	95	90-110	2	20	
Sulfate	mg/L	115	250	250	364	360	99	98	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WETA/23459 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1493601 | Matrix: Water
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/24/15 16:29	

LABORATORY CONTROL SAMPLE: 1493602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1493603 1493604

Parameter	Units	92255783003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	1.1	2.5	2.5	3.3	3.3	88	87	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1493605 1493606

Parameter	Units	92255783006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.3	2.3	91	90	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

QC Batch: WETA/23572 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

METHOD BLANK: 1501239 Matrix: Water
Associated Lab Samples: 92255783001, 92255783002, 92255783003, 92255783004, 92255783005, 92255783006, 92255783007, 92255783008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/02/15 21:21	

LABORATORY CONTROL SAMPLE: 1501240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501241 1501242

Parameter	Units	92255783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.3	25	25	26.2	25.8	100	98	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501243 1501244

Parameter	Units	92255904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.7	25	25	30.6	30.6	99	99	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

SAMPLE QUALIFIERS

Sample: 92255783002

[1] The sample was not collected in the appropriate container for headspace analysis.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255783001	**AMW-10**	RSK 175	AIR/23573		
92255783002	**AMW-13**	RSK 175	AIR/23572		
92255783003	**DMW-3**	RSK 175	AIR/23574		
92255783004	**DMW-5**	RSK 175	AIR/23574		
92255783005	**ARW-2**	RSK 175	AIR/23574		
92255783006	**DMW-1**	RSK 175	AIR/23574		
92255783007	**DMW-2**	RSK 175	AIR/23573		
92255783008	**DMW-6**	RSK 175	AIR/23573		
92255783001	**AMW-10**	EPA 8260	MSV/32318		
92255783002	**AMW-13**	EPA 8260	MSV/32337		
92255783003	**DMW-3**	EPA 8260	MSV/32318		
92255783004	**DMW-5**	EPA 8260	MSV/32318		
92255783005	**ARW-2**	EPA 8260	MSV/32318		
92255783006	**DMW-1**	EPA 8260	MSV/32318		
92255783007	**DMW-2**	EPA 8260	MSV/32317		
92255783008	**DMW-6**	EPA 8260	MSV/32318		
92255783009	**EB-2**	EPA 8260	MSV/32317		
92255783010	**Trip Blank**	EPA 8260	MSV/32317		
92255783001	**AMW-10**	EPA 8260B Mod.	MSV/32397		
92255783002	**AMW-13**	EPA 8260B Mod.	MSV/32397		
92255783003	**DMW-3**	EPA 8260B Mod.	MSV/32397		
92255783004	**DMW-5**	EPA 8260B Mod.	MSV/32412		
92255783005	**ARW-2**	EPA 8260B Mod.	MSV/32397		
92255783006	**DMW-1**	EPA 8260B Mod.	MSV/32397		
92255783007	**DMW-2**	EPA 8260B Mod.	MSV/32397		
92255783008	**DMW-6**	EPA 8260B Mod.	MSV/32397		
92255783001	**AMW-10**	SM 2320B	WET/31617		
92255783002	**AMW-13**	SM 2320B	WET/31617		
92255783003	**DMW-3**	SM 2320B	WET/31617		
92255783004	**DMW-5**	SM 2320B	WET/31617		
92255783005	**ARW-2**	SM 2320B	WET/31617		
92255783006	**DMW-1**	SM 2320B	WET/31617		
92255783007	**DMW-2**	SM 2320B	WET/31617		
92255783008	**DMW-6**	SM 2320B	WET/31617		
92255783001	**AMW-10**	SM 4500-S2D	WET/38411		
92255783002	**AMW-13**	SM 4500-S2D	WET/38411		
92255783003	**DMW-3**	SM 4500-S2D	WET/38442		
92255783004	**DMW-5**	SM 4500-S2D	WET/38442		
92255783005	**ARW-2**	SM 4500-S2D	WET/38442		
92255783006	**DMW-1**	SM 4500-S2D	WET/38442		
92255783007	**DMW-2**	SM 4500-S2D	WET/38442		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255783

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255783008	**DMW-6**	SM 4500-S2D	WET/38442		
92255783001	**AMW-10**	EPA 300.0	WETA/47726		
92255783002	**AMW-13**	EPA 300.0	WETA/47724		
92255783003	**DMW-3**	EPA 300.0	WETA/47724		
92255783004	**DMW-5**	EPA 300.0	WETA/47724		
92255783005	**ARW-2**	EPA 300.0	WETA/47724		
92255783006	**DMW-1**	EPA 300.0	WETA/47724		
92255783007	**DMW-2**	EPA 300.0	WETA/47724		
92255783008	**DMW-6**	EPA 300.0	WETA/47724		
92255783001	**AMW-10**	EPA 353.2	WETA/23459		
92255783002	**AMW-13**	EPA 353.2	WETA/23459		
92255783003	**DMW-3**	EPA 353.2	WETA/23459		
92255783004	**DMW-5**	EPA 353.2	WETA/23459		
92255783005	**ARW-2**	EPA 353.2	WETA/23459		
92255783006	**DMW-1**	EPA 353.2	WETA/23459		
92255783007	**DMW-2**	EPA 353.2	WETA/23459		
92255783008	**DMW-6**	EPA 353.2	WETA/23459		
92255783001	**AMW-10**	SM 5310B	WETA/23572		
92255783002	**AMW-13**	SM 5310B	WETA/23572		
92255783003	**DMW-3**	SM 5310B	WETA/23572		
92255783004	**DMW-5**	SM 5310B	WETA/23572		
92255783005	**ARW-2**	SM 5310B	WETA/23572		
92255783006	**DMW-1**	SM 5310B	WETA/23572		
92255783007	**DMW-2**	SM 5310B	WETA/23572		
92255783008	**DMW-6**	SM 5310B	WETA/23572		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 c

Corrected Cooler Temp.: 3.2/2.1 c **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LMB 6/24/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____	LMB 6/24/15	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG **Date:** 6-24-15

SRF Review: AMB **Date:** 6-24-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255783

92255783

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1941044

Section A Required Client Information:
Company: Earth Con Consultants, Inc.
Address: 1880 West Oak Pkwy Building Steel 6, Marietta, GA 30062
Email To: KRosera
Phone: 770-973-2100 Fax: 770-973-7395
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rosera
Copy To:
Purchase Order No.:
Project Name: AMC Dalton
Project Number: 02.201403 92.00

Section C Invoice Information:
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY
☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____
Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs 8260	1,4-Dioxane	Methy, Eth, Ethy	TOC	Sulfide	Cl-, SO4, Alk	Nitrate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92255783
1	AMW-10	WT	G	6/22/15	1705				15	5			6	1			3	3	3	3	3	1	1	1		001
2	AMW-13	WT	G	6/22/15	2005				15	5			6	1			3	3	3	3	3	1	1	1		002
3	~~MW-22D~~ DMW-3	WT	G	6/23/15	1000				15	5			6	1			3	3	3	3	3	1	1	1		003
4	DMW-5	WT	G	6/23/15	0940				15	5			6	1			3	3	3	3	3	1	1	1		004
5	ARW-2	WT	G	6/23/15	10:00				15	5			6	1			3	3	3	3	3	1	1	1		005
6	DMW-1	WT	G	6/23/15	12:15				15	5			6	1			3	3	3	3	3	1	1	1		006
7	DMW-2	WT	G	6/23/15	11:55				15	5			6	1			3	3	3	3	3	1	1	1		007
8	DMW-6	WT	G	6/23/15	1305				15	5			6	1			3	3	3	3	3	1	1	1		008
9	FB-2	WT	G	6/23/15	1400				3				3					3								009
10	TRIP BLANK	W	G	6/23/15	—				2									2								010
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6/23/15		[signature]	6-23	1520				
				[signature]	6/24/15	11:30	3.3 / 2.1	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kent M Davis
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/23/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255784001	**MW-22D**	Water	06/22/15 18:00	06/24/15 11:30
92255784002	**OBG-1**	Water	06/23/15 08:15	06/24/15 11:30
92255784003	**Trip Blank**	Water	06/23/15 00:00	06/24/15 11:30

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255784001	**MW-22D**	RSK 175	SH2	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255784002	**OBG-1**	RSK 175	SH2	3	PASI-M
		EPA 8260	CAH	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	NMT	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	DMN	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255784003	**Trip Blank**	EPA 8260	CAH	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Sample: MW-22D **Lab ID: 92255784001** Collected: 06/22/15 18:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 03:02	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 03:02	74-85-1	
Methane	**9.1J**	ug/L	10.0	0.63	1		06/26/15 03:02	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.011**	mg/L	0.0040	0.0013	4		07/01/15 08:40	75-34-3	
1,2-Dichloroethane	**0.00065J**	mg/L	0.0040	0.00048	4		07/01/15 08:40	107-06-2	
1,1-Dichloroethene	**0.097**	mg/L	0.0040	0.0022	4		07/01/15 08:40	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0040	0.00076	4		07/01/15 08:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0040	0.0020	4		07/01/15 08:40	156-60-5	
Tetrachloroethene	ND	mg/L	0.0040	0.0018	4		07/01/15 08:40	127-18-4	
1,1,1-Trichloroethane	**0.19**	mg/L	0.0040	0.0019	4		07/01/15 08:40	71-55-6	
Trichloroethene	ND	mg/L	0.0040	0.0019	4		07/01/15 08:40	79-01-6	
Vinyl chloride	ND	mg/L	0.0040	0.0025	4		07/01/15 08:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		4		07/01/15 08:40	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		4		07/01/15 08:40	17060-07-0	
Toluene-d8 (S)	101	%	70-130		4		07/01/15 08:40	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/02/15 13:02	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	115	%	50-150		1		07/02/15 13:02	17060-07-0	
Toluene-d8 (S)	90	%	50-150		1		07/02/15 13:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**216**	mg/L	5.0	5.0	1		06/27/15 11:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/26/15 15:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**13.5**	mg/L	5.0	2.5	1		06/29/15 19:22	16887-00-6	
Sulfate	**13.1**	mg/L	5.0	2.5	1		06/29/15 19:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.1**	mg/L	0.020	0.010	1		06/24/15 16:34		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.99J**	mg/L	1.0	0.50	1		07/02/15 23:58	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Sample: OBG-1 **Lab ID: 92255784002** Collected: 06/23/15 08:15 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/26/15 08:28	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/26/15 08:28	74-85-1	
Methane	**5.0J**	ug/L	10.0	0.63	1		06/26/15 08:28	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0050J**	mg/L	0.010	0.0032	10		06/26/15 02:26	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.010	0.0012	10		06/26/15 02:26	107-06-2	
1,1-Dichloroethene	**0.33**	mg/L	0.010	0.0056	10		06/26/15 02:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.010	0.0019	10		06/26/15 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.010	0.0049	10		06/26/15 02:26	156-60-5	
Tetrachloroethene	ND	mg/L	0.010	0.0046	10		06/26/15 02:26	127-18-4	
1,1,1-Trichloroethane	**1.0**	mg/L	0.010	0.0048	10		06/26/15 02:26	71-55-6	
Trichloroethene	ND	mg/L	0.010	0.0047	10		06/26/15 02:26	79-01-6	
Vinyl chloride	ND	mg/L	0.010	0.0062	10		06/26/15 02:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		10		06/26/15 02:26	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		06/26/15 02:26	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		06/26/15 02:26	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 22:19	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	119	%	50-150		1		07/01/15 22:19	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		07/01/15 22:19	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**54.8**	mg/L	5.0	5.0	1		06/27/15 11:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 14:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.7**	mg/L	5.0	2.5	1		06/29/15 20:20	16887-00-6	
Sulfate	**4.2J**	mg/L	5.0	2.5	1		06/29/15 20:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.5**	mg/L	0.020	0.010	1		06/24/15 16:36		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.69J**	mg/L	1.0	0.50	1		07/03/15 00:08	7440-44-0	

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Sample: Trip Blank **Lab ID: 92255784003** Collected: 06/23/15 00:00 Received: 06/24/15 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/25/15 20:23	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/25/15 20:23	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/25/15 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/25/15 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/25/15 20:23	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/25/15 20:23	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/25/15 20:23	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/25/15 20:23	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/25/15 20:23	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/25/15 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		06/25/15 20:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/25/15 20:23	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: AIR/23572
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255784001

METHOD BLANK: 2006567
Matrix: Water
Associated Lab Samples: 92255784001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/26/15 02:37	
Ethene	ug/L	ND	10.0	06/26/15 02:37	
Methane	ug/L	4.8J	10.0	06/26/15 02:37	

LABORATORY CONTROL SAMPLE & LCSD: 2006568 2006569

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	118	120	104	105	85-115	1	20	
Ethene	ug/L	106	110	111	104	105	85-115	1	20	
Methane	ug/L	60.7	63.1	63.4	104	104	85-115	0	20	

SAMPLE DUPLICATE: 2006570

Parameter	Units	92255783002 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	5.7J	5.8J		20	

SAMPLE DUPLICATE: 2006571

Parameter	Units	92255763003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	6.1J	6.4J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: AIR/23573
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255784002

METHOD BLANK: 2006572
Matrix: Water
Associated Lab Samples: 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/26/15 05:53	
Ethene	ug/L	ND	10.0	06/26/15 05:53	
Methane	ug/L	3.1J	10.0	06/26/15 05:53	

LABORATORY CONTROL SAMPLE & LCSD: 2006573 2006574

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	120	119	105	105	85-115	0	20	
Ethene	ug/L	106	111	111	105	105	85-115	0	20	
Methane	ug/L	60.7	63.4	63.2	104	104	85-115	0	20	

SAMPLE DUPLICATE: 2006575

Parameter	Units	92255813003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	4.9J	4.9J		20	

SAMPLE DUPLICATE: 2006576

Parameter	Units	92255813012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	1040	1120	8	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: MSV/32317
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255784003

METHOD BLANK: 1495032
Matrix: Water
Associated Lab Samples: 92255784003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:17	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 19:17	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Trichloroethene	mg/L	ND	0.0010	06/25/15 19:17	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 19:17	
1,2-Dichloroethane-d4 (S)	%	101	70-130	06/25/15 19:17	
4-Bromofluorobenzene (S)	%	103	70-130	06/25/15 19:17	
Toluene-d8 (S)	%	100	70-130	06/25/15 19:17	

LABORATORY CONTROL SAMPLE: 1495033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	96	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	103	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	98	70-131	
Tetrachloroethene	mg/L	.05	0.050	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	100	70-130	
Trichloroethene	mg/L	.05	0.048	96	70-130	
Vinyl chloride	mg/L	.05	0.050	99	50-150	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1495034

Parameter	Units	92255765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.024	118	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.022	110	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.025	125	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.021	105	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.022	112	70-130	
Tetrachloroethene	mg/L	ND	.02	0.023	114	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

MATRIX SPIKE SAMPLE: 1495034

Parameter	Units	92255765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	117	70-130	
Trichloroethene	mg/L	ND	.02	0.022	110	69-151	
Vinyl chloride	mg/L	ND	.02	0.025	123	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1495035

Parameter	Units	92255765002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	55.2 ug/L	0.059	6	30	
Tetrachloroethene	mg/L	27.1 ug/L	0.029	5	30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	73.1 ug/L	0.078	6	30	
Vinyl chloride	mg/L	2.3 ug/L	0.0026	11	30	
1,2-Dichloroethane-d4 (S)	%	102	99	4		
4-Bromofluorobenzene (S)	%	102	100	3		
Toluene-d8 (S)	%	99	99	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: MSV/32318
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255784002

METHOD BLANK: 1495041
Matrix: Water
Associated Lab Samples: 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
1,1-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
1,1-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
1,2-Dichloroethane	mg/L	ND	0.0010	06/25/15 19:34	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Tetrachloroethene	mg/L	ND	0.0010	06/25/15 19:34	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Trichloroethene	mg/L	ND	0.0010	06/25/15 19:34	
Vinyl chloride	mg/L	ND	0.0010	06/25/15 19:34	
1,2-Dichloroethane-d4 (S)	%	102	70-130	06/25/15 19:34	
4-Bromofluorobenzene (S)	%	102	70-130	06/25/15 19:34	
Toluene-d8 (S)	%	100	70-130	06/25/15 19:34	

LABORATORY CONTROL SAMPLE: 1495042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.051	101	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	95	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	101	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	94	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.049	99	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.049	98	70-130	
Trichloroethene	mg/L	.05	0.047	95	70-130	
Vinyl chloride	mg/L	.05	0.049	97	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1495043

Parameter	Units	92255783004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.016	.1	0.14	125	70-130	
1,1-Dichloroethane	mg/L	0.0052	.1	0.12	114	70-130	
1,1-Dichloroethene	mg/L	0.029	.1	0.16	130	70-166	
1,2-Dichloroethane	mg/L	ND	.1	0.11	108	70-130	
cis-1,2-Dichloroethene	mg/L	0.20	.1	0.33	134	70-130	
Tetrachloroethene	mg/L	0.56	.1	0.76	198	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

MATRIX SPIKE SAMPLE: 1495043

Parameter	Units	92255783004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	0.0086	.1	0.13	121	70-130	
Trichloroethene	mg/L	0.48	.1	0.68	196	69-151	
Vinyl chloride	mg/L	ND	.1	0.12	123	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1495044

Parameter	Units	92255783005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	0.031	0.032	2	30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	0.037	0.037	2	30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	0.12	0.13	3	30	
Tetrachloroethene	mg/L	1.3	1.3	0	30	
trans-1,2-Dichloroethene	mg/L	0.0062J	0.0066J		30	
Trichloroethene	mg/L	0.051	0.051	0	30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	99	1		
4-Bromofluorobenzene (S)	%	102	101	1		
Toluene-d8 (S)	%	100	99	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: MSV/32385
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255784001

METHOD BLANK: 1498602
Matrix: Water
Associated Lab Samples: 92255784001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/30/15 23:05	
1,1-Dichloroethane	mg/L	ND	0.0010	06/30/15 23:05	
1,1-Dichloroethene	mg/L	ND	0.0010	06/30/15 23:05	
1,2-Dichloroethane	mg/L	ND	0.0010	06/30/15 23:05	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/30/15 23:05	
Tetrachloroethene	mg/L	ND	0.0010	06/30/15 23:05	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/30/15 23:05	
Trichloroethene	mg/L	ND	0.0010	06/30/15 23:05	
Vinyl chloride	mg/L	ND	0.0010	06/30/15 23:05	
1,2-Dichloroethane-d4 (S)	%	93	70-130	06/30/15 23:05	
4-Bromofluorobenzene (S)	%	111	70-130	06/30/15 23:05	
Toluene-d8 (S)	%	101	70-130	06/30/15 23:05	

LABORATORY CONTROL SAMPLE: 1498603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	99	70-130	
1,1-Dichloroethene	mg/L	.05	0.052	104	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	95	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	101	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.054	107	70-130	
Trichloroethene	mg/L	.05	0.050	100	70-130	
Vinyl chloride	mg/L	.05	0.052	105	50-150	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1499119

Parameter	Units	92256447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	<0.48 ug/L	.02	0.021	105	70-130	
1,1-Dichloroethane	mg/L	<0.32 ug/L	.02	0.021	105	70-130	
1,1-Dichloroethene	mg/L	<0.56 ug/L	.02	0.024	119	70-166	
1,2-Dichloroethane	mg/L	<0.12 ug/L	.02	0.019	95	70-130	
cis-1,2-Dichloroethene	mg/L	0.25J ug/L	.02	0.022	110	70-130	
Tetrachloroethene	mg/L	<0.46 ug/L	.02	0.022	110	70-130	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

MATRIX SPIKE SAMPLE: 1499119

Parameter	Units	92256447001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	<0.49 ug/L	.02	0.023	116	70-130	
Trichloroethene	mg/L	<0.47 ug/L	.02	0.021	107	69-151	
Vinyl chloride	mg/L	<0.62 ug/L	.02	0.023	114	70-130	
1,2-Dichloroethane-d4 (S)	%				89	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1499120

Parameter	Units	92256447002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	<0.48 ug/L	ND		30	
1,1-Dichloroethane	mg/L	<0.32 ug/L	ND		30	
1,1-Dichloroethene	mg/L	<0.56 ug/L	ND		30	
1,2-Dichloroethane	mg/L	<0.12 ug/L	ND		30	
cis-1,2-Dichloroethene	mg/L	<0.19 ug/L	ND		30	
Tetrachloroethene	mg/L	<0.46 ug/L	ND		30	
trans-1,2-Dichloroethene	mg/L	<0.49 ug/L	ND		30	
Trichloroethene	mg/L	<0.47 ug/L	ND		30	
Vinyl chloride	mg/L	<0.62 ug/L	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	95	4		
4-Bromofluorobenzene (S)	%	110	111	1		
Toluene-d8 (S)	%	100	101	1		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: MSV/32397
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255784002

METHOD BLANK: 1499592
Matrix: Water
Associated Lab Samples: 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: MSV/32412
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255784001

METHOD BLANK: 1500566
Matrix: Water
Associated Lab Samples: 92255784001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/02/15 11:18	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/02/15 11:18	
Toluene-d8 (S)	%	91	50-150	07/02/15 11:18	

LABORATORY CONTROL SAMPLE: 1500567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	97	71-125	
1,2-Dichloroethane-d4 (S)	%			108	50-150	
Toluene-d8 (S)	%			91	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WET/31617
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255784001, 92255784002

METHOD BLANK: 1255032
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/27/15 09:59	

LABORATORY CONTROL SAMPLE: 1255033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	239	95	90-110	

SAMPLE DUPLICATE: 1255034

Parameter	Units	92255718001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	207	205	1	20	

SAMPLE DUPLICATE: 1255035

Parameter	Units	92255917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	240	238	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WET/38411 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255784001

METHOD BLANK: 1495500 | Matrix: Water
Associated Lab Samples: 92255784001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/26/15 15:00	

LABORATORY CONTROL SAMPLE: 1495501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495502 1495503

Parameter	Units	92255563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.51	0.51	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495504 1495505

Parameter	Units	92255563005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.44	0.44	85	85	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WET/38442
QC Batch Method: SM 4500-S2D
Analysis Method: SM 4500-S2D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255784002

METHOD BLANK: 1496710
Matrix: Water
Associated Lab Samples: 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/29/15 14:45	

LABORATORY CONTROL SAMPLE: 1496711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.48	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496712 1496713

Parameter	Units	92255783003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.45	0.45	90	90	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496714 1496715

Parameter	Units	92255788004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.22	0.22	44	44	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WETA/47726
Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255784001, 92255784002

METHOD BLANK: 1255498
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/29/15 18:43	
Sulfate	mg/L	ND	5.0	06/29/15 18:43	

LABORATORY CONTROL SAMPLE: 1255499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255500 1255501

Parameter	Units	92255784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	50	50	62.0	62.0	97	97	90-110	0	20	
Sulfate	mg/L	13.1	50	50	61.7	61.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1255804 1255805

Parameter	Units	35193997002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	337	250	250	584	574	99	95	90-110	2	20	
Sulfate	mg/L	115	250	250	364	360	99	98	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WETA/23459 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255784001, 92255784002

METHOD BLANK: 1493601 | Matrix: Water
Associated Lab Samples: 92255784001, 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/24/15 16:29	

LABORATORY CONTROL SAMPLE: 1493602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1493603 1493604

Parameter	Units	92255783003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	1.1	2.5	2.5	3.3	3.3	88	87	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1493605 1493606

Parameter	Units	92255783006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.3	2.3	91	90	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

QC Batch: WETA/23572 | Analysis Method: SM 5310B
QC Batch Method: SM 5310B | Analysis Description: 5310B TOC
Associated Lab Samples: 92255784001, 92255784002

METHOD BLANK: 1501239 | Matrix: Water
Associated Lab Samples: 92255784001, 92255784002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/02/15 21:21	

LABORATORY CONTROL SAMPLE: 1501240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501241 1501242

Parameter	Units	92255783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.3	25	25	26.2	25.8	100	98	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501243 1501244

Parameter	Units	92255904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.7	25	25	30.6	30.6	99	99	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

SAMPLE QUALIFIERS

Sample: 92255784001

[1] The sample was not collected in the appropriate container for headspace analysis.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255784

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255784001	**MW-22D**	RSK 175	AIR/23572		
92255784002	**OBG-1**	RSK 175	AIR/23573		
92255784001	**MW-22D**	EPA 8260	MSV/32385		
92255784002	**OBG-1**	EPA 8260	MSV/32318		
92255784003	**Trip Blank**	EPA 8260	MSV/32317		
92255784001	**MW-22D**	EPA 8260B Mod.	MSV/32412		
92255784002	**OBG-1**	EPA 8260B Mod.	MSV/32397		
92255784001	**MW-22D**	SM 2320B	WET/31617		
92255784002	**OBG-1**	SM 2320B	WET/31617		
92255784001	**MW-22D**	SM 4500-S2D	WET/38411		
92255784002	**OBG-1**	SM 4500-S2D	WET/38442		
92255784001	**MW-22D**	EPA 300.0	WETA/47726		
92255784002	**OBG-1**	EPA 300.0	WETA/47726		
92255784001	**MW-22D**	EPA 353.2	WETA/23459		
92255784002	**OBG-1**	EPA 353.2	WETA/23459		
92255784001	**MW-22D**	SM 5310B	WETA/23572		
92255784002	**OBG-1**	SM 5310B	WETA/23572		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earthcon

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on Ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.2/2.1 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: KDB 6/24/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____	KDB 6/24/15	

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: NMG Date: 6-24-15

SRF Review: AMB Date: 6-24-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255784

92255784

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1941045

Section A Required Client Information:
Company: Earth Con Consultants, Inc
Address: 1800 West Oak Pkwy Bldg 100 Ste 106
Marietta, GA 30062
Email To: KRivera@Earthcon.com
Phone: 770-973-2100 Fax: 770-973-7845
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: Ame Dalton
Project Number: 02201403 92.00

Section C Invoice Information:
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 7457-1

REGULATORY AGENCY
☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	1,4-Dioxane	TOC	Nitrate	Cl, Sulf, Alk	Meth, Ethan, Ethene	Sulfide	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92255784
1	MW-22D	WT	G	6/22/15	1800				5	5			6	1			3	3	3	3	1	1	3	1		001
2	OB-04	WT	G	6/23/15	0800				5	5			6	1			3	3	3	3	1	1	3	1		002
3	TRIP Blank	W	G	6/23/15	—				2									2								003
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6/23/15		B. Petit	6-23	15:20				
				[signature] ASH	6/24/15	11:30	3.2	Y	N	Y
							2.1			

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kent Davis
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/23/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255980001	**DMW-11**	Water	06/23/15 14:35	06/25/15 11:00
92255980002	**OBG-W2**	Water	06/23/15 17:55	06/25/15 11:00

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255980001	**DMW-11**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255980002	**OBG-W2**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Sample: DMW-11 **Lab ID: 92255980001** Collected: 06/23/15 14:35 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 09:37	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 09:37	74-85-1	
Methane	**3.9J**	ug/L	10.0	0.63	1		06/29/15 09:37	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/26/15 23:03	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 23:03	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		06/26/15 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		06/26/15 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 23:03	156-60-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		06/26/15 23:03	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		06/26/15 23:03	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/26/15 23:03	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/26/15 23:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		06/26/15 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/26/15 23:03	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/26/15 23:03	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 22:40	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	50-150		1		07/01/15 22:40	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		07/01/15 22:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**71.5**	mg/L	5.0	5.0	1		06/29/15 12:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 15:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.4**	mg/L	5.0	2.5	1		06/30/15 14:56	16887-00-6	
Sulfate	**12.9**	mg/L	5.0	2.5	1		06/30/15 14:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.49**	mg/L	0.020	0.010	1		06/25/15 12:26		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.91J**	mg/L	1.0	0.50	1		07/03/15 02:05	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Sample: OBG-W2 **Lab ID: 92255980002** Collected: 06/23/15 17:55 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 09:45	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 09:45	74-85-1	
Methane	**4.8J**	ug/L	10.0	0.63	1		06/29/15 09:45	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		06/26/15 23:19	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		06/26/15 23:19	107-06-2	
1,1-Dichloroethene	**0.00057J**	mg/L	0.0010	0.00056	1		06/26/15 23:19	75-35-4	
cis-1,2-Dichloroethene	**0.00078J**	mg/L	0.0010	0.00019	1		06/26/15 23:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 23:19	156-60-5	
Tetrachloroethene	**0.0014**	mg/L	0.0010	0.00046	1		06/26/15 23:19	127-18-4	
1,1,1-Trichloroethane	**0.0031**	mg/L	0.0010	0.00048	1		06/26/15 23:19	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		06/26/15 23:19	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		06/26/15 23:19	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		06/26/15 23:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/26/15 23:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/26/15 23:19	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	mg/L	0.0020	0.0019	1		07/01/15 23:00	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%	50-150		1		07/01/15 23:00	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/01/15 23:00	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		06/29/15 12:46		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 15:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.2J**	mg/L	5.0	2.5	1		06/30/15 16:00	16887-00-6	
Sulfate	**5.6**	mg/L	5.0	2.5	1		06/30/15 16:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.095**	mg/L	0.020	0.010	1		06/25/15 12:32		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	0.50	1		07/03/15 02:15	7440-44-0	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: AIR/23596 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 2009168 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/29/15 07:02	
Ethene	ug/L	ND	10.0	06/29/15 07:02	
Methane	ug/L	2.1J	10.0	06/29/15 07:02	

LABORATORY CONTROL SAMPLE & LCSD: 2009169 2009170

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	111	101	97	89	85-115	9	20	
Ethene	ug/L	106	103	95.6	97	90	85-115	8	20	
Methane	ug/L	60.7	61.6	61.1	102	101	85-115	1	20	

SAMPLE DUPLICATE: 2009179

Parameter	Units	60197086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	13.4	14.7	9	20	

SAMPLE DUPLICATE: 2009600

Parameter	Units	2021736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L		ND		20	
Methane	ug/L	930	908	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: MSV/32334 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1496051 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 22:29	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Trichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 22:29	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/26/15 22:29	
4-Bromofluorobenzene (S)	%	106	70-130	06/26/15 22:29	
Toluene-d8 (S)	%	100	70-130	06/26/15 22:29	

LABORATORY CONTROL SAMPLE: 1496052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	110	70-132	
1,2-Dichloroethane	mg/L	.05	0.045	89	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	103	70-130	
Trichloroethene	mg/L	.05	0.050	99	70-130	
Vinyl chloride	mg/L	.05	0.056	112	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496053 1496054

Parameter	Units	92255362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	7.7 ug/L	.08	.08	0.11	0.10	128	121	70-130	5	30	
1,1-Dichloroethane	mg/L	58.8 ug/L	.08	.08	0.18	0.18	147	152	70-130	2	30	M1
1,1-Dichloroethene	mg/L	342 ug/L	.08	.08	0.51	0.43	211	110	70-166	17	30	M1
1,2-Dichloroethane	mg/L	ND	.08	.08	0.085	0.078	102	93	70-130	9	30	
cis-1,2-Dichloroethene	mg/L	ND	.08	.08	0.089	0.084	109	104	70-130	5	30	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496053 1496054

Parameter	Units	92255362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	mg/L	ND	.08	.08	0.094	0.087	117	108	70-130	8	30	
trans-1,2-Dichloroethene	mg/L	ND	.08	.08	0.095	0.088	118	110	70-130	7	30	
Trichloroethene	mg/L	ND	.08	.08	0.088	0.080	109	99	69-151	9	30	
Vinyl chloride	mg/L	ND	.08	.08	0.097	0.087	121	108	70-130	11	30	
1,2-Dichloroethane-d4 (S)	%						106	107	70-130			
4-Bromofluorobenzene (S)	%						116	117	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: MSV/32397 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1499592 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: WET/31629 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1255660 | Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/29/15 12:05	

LABORATORY CONTROL SAMPLE: 1255661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	239	96	90-110	

SAMPLE DUPLICATE: 1255662

Parameter	Units	35194657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	168	171	2	20	

SAMPLE DUPLICATE: 1255663

Parameter	Units	92255988006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	300	297	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: WET/38443 | Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1496716 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/29/15 15:30	

LABORATORY CONTROL SAMPLE: 1496717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496718 1496719

Parameter	Units	92255813007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.78	0.78	157	157	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496720 1496721

Parameter	Units	92255826003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.47	0.47	94	94	90-110	0	10	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: WETA/47764
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1256364
Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/30/15 07:27	
Sulfate	mg/L	ND	5.0	06/30/15 07:27	

LABORATORY CONTROL SAMPLE: 1256365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.0	92	90-110	
Sulfate	mg/L	50	46.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256366 1256367

Parameter	Units	35194872001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2240	2500	2500	4850	4880	104	106	90-110	1	20	
Sulfate	mg/L	365	2500	2500	2720	2730	94	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256368 1256369

Parameter	Units	92255980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	52.2	51.6	94	92	90-110	1	20	
Sulfate	mg/L	12.9	50	50	60.9	60.3	96	95	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: WETA/23472 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1494477 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/25/15 12:23	

LABORATORY CONTROL SAMPLE: 1494478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494479 1494480

Parameter	Units	92255980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.49	2.5	2.5	2.8	2.8	92	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494481 1494482

Parameter	Units	92255900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

QC Batch: WETA/23572 | Analysis Method: SM 5310B
QC Batch Method: SM 5310B | Analysis Description: 5310B TOC
Associated Lab Samples: 92255980001, 92255980002

METHOD BLANK: 1501239 | Matrix: Water
Associated Lab Samples: 92255980001, 92255980002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/02/15 21:21	

LABORATORY CONTROL SAMPLE: 1501240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501241 1501242

Parameter	Units	92255783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.3	25	25	26.2	25.8	100	98	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501243 1501244

Parameter	Units	92255904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.7	25	25	30.6	30.6	99	99	90-110	0	5	

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QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255980

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255980001	**DMW-11**	RSK 175	AIR/23596		
92255980002	**OBG-W2**	RSK 175	AIR/23596		
92255980001	**DMW-11**	EPA 8260	MSV/32334		
92255980002	**OBG-W2**	EPA 8260	MSV/32334		
92255980001	**DMW-11**	EPA 8260B Mod.	MSV/32397		
92255980002	**OBG-W2**	EPA 8260B Mod.	MSV/32397		
92255980001	**DMW-11**	SM 2320B	WET/31629		
92255980002	**OBG-W2**	SM 2320B	WET/31629		
92255980001	**DMW-11**	SM 4500-S2D	WET/38443		
92255980002	**OBG-W2**	SM 4500-S2D	WET/38443		
92255980001	**DMW-11**	EPA 300.0	WETA/47764		
92255980002	**OBG-W2**	EPA 300.0	WETA/47764		
92255980001	**DMW-11**	EPA 353.2	WETA/23472		
92255980002	**OBG-W2**	EPA 353.2	WETA/23472		
92255980001	**DMW-11**	SM 5310B	WETA/23572		
92255980002	**OBG-W2**	SM 5310B	WETA/23572		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earth can

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

R Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.0/4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: KDB 6/25/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrite
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	NMG	Date:	6-25-15
SRF Review:	AMB	Date:	10-26-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255980

92255980

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1941046

Section A Required Client Information:
Company: Earth Con Consultants Inc
Address: 1880 West Oak Pkwy Ste 100
Marietta, GA 30062
Email To: K Rivera
Phone: 770-973-2100 Fax: 770-973-2300
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: Anne Dalton
Project Number: 02-201 40392.00

Section C Invoice Information:
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	1,4-Dioxane	TOC	Nitrate	Cl, Sulf, Alk	Hardness, ortho, chlorine	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DMW-4	WT	G	6/23/15	1235				15	5			6	1			3	3	3	3	1	1	3	1		001
2	OBG-W2	WT	G	6/23/15	1255				15	5			6	1			3	3	3	3	1	1	3	1		002
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	6/24/15	1535	[signature]	6-24-15	15:35				
	D. Anthony	6/24/15	16:00	[signature]	6/25/15	11:00	3.0 / 4.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kent Dixon
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/23/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 13, 2015

Kristen Rivera
EarthCon
1880 West Oak Pkwy
Bldg 100 Suite 106
Marietta, GA 30062

RE: Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Dear Kristen Rivera:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This revised report was issued on 7/13/15 to report the VOCs in mg/L, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92255988001	**AMW-12**	Water	06/23/15 18:30	06/25/15 11:00
92255988002	**OBG-W7**	Water	06/23/15 17:20	06/25/15 11:00
92255988003	**DMW-12**	Water	06/23/15 19:50	06/25/15 11:00
92255988004	**ARW-4**	Water	06/24/15 08:15	06/25/15 11:00
92255988005	**DMW-9/DRW-3**	Water	06/24/15 10:00	06/25/15 11:00
92255988006	**DMW-7/DRW 1**	Water	06/24/15 09:10	06/25/15 11:00
92255988007	**ARW-1**	Water	06/24/15 10:30	06/25/15 11:00
92255988008	**EB-3**	Water	06/23/15 19:05	06/25/15 11:00
92255988009	**DUP-3**	Water	06/23/15 00:00	06/25/15 11:00
92255988010	**EB-4**	Water	06/24/15 07:15	06/25/15 11:00

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255988001	**AMW-12**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988002	**OBG-W7**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988003	**DMW-12**	RSK 175	SH2	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	MAB	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988004	**ARW-4**	RSK 175	SH2	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	EWS	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988005	**DMW-9/DRW-3**	RSK 175	SH2	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	EWS	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988006	**DMW-7/DRW 1**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	EWS	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988007	**ARW-1**	RSK 175	DR1	3	PASI-M
		EPA 8260	SNP	12	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 2320B	KAM	1	PASI-O
		SM 4500-S2D	EWS	1	PASI-A
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	AES2	1	PASI-A
		SM 5310B	AES2	1	PASI-A
92255988008	**EB-3**	EPA 8260	SNP	12	PASI-C
92255988009	**DUP-3**	EPA 8260	SNP	12	PASI-C
92255988010	**EB-4**	EPA 8260	SNP	12	PASI-C

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: AMW-12 **Lab ID: 92255988001** Collected: 06/23/15 18:30 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 09:53	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 09:53	74-85-1	
Methane	**1.9J**	ug/L	10.0	0.63	1		06/29/15 09:53	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.0067**	mg/L	0.0050	0.0016	5		06/27/15 03:16	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	0.00060	5		06/27/15 03:16	107-06-2	
1,1-Dichloroethene	**0.057**	mg/L	0.0050	0.0028	5		06/27/15 03:16	75-35-4	
cis-1,2-Dichloroethene	**0.86**	mg/L	0.0050	0.00095	5		06/27/15 03:16	156-59-2	
trans-1,2-Dichloroethene	**0.0048J**	mg/L	0.0050	0.0024	5		06/27/15 03:16	156-60-5	
Tetrachloroethene	**27.1**	mg/L	0.25	0.12	250		06/30/15 20:33	127-18-4	
1,1,1-Trichloroethane	**0.053**	mg/L	0.0050	0.0024	5		06/27/15 03:16	71-55-6	
Trichloroethene	**0.75**	mg/L	0.0050	0.0024	5		06/27/15 03:16	79-01-6	
Vinyl chloride	ND	mg/L	0.0050	0.0031	5		06/27/15 03:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		5		06/27/15 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		5		06/27/15 03:16	17060-07-0	
Toluene-d8 (S)	97	%	70-130		5		06/27/15 03:16	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0093**	mg/L	0.0020	0.0019	1		07/02/15 00:22	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	112	%	50-150		1		07/02/15 00:22	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		07/02/15 00:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**177**	mg/L	5.0	5.0	1		06/29/15 12:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 15:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.2**	mg/L	5.0	2.5	1		06/30/15 18:11	16887-00-6	
Sulfate	**10.6**	mg/L	5.0	2.5	1		06/30/15 18:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.3**	mg/L	0.020	0.010	1		06/25/15 12:37		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.83J**	mg/L	1.0	0.50	1		07/03/15 02:26	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: OBG-W7 **Lab ID: 92255988002** Collected: 06/23/15 17:20 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 10:02	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 10:02	74-85-1	
Methane	**889**	ug/L	10.0	0.63	1		06/29/15 10:02	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.13**	mg/L	0.0010	0.00032	1		06/26/15 23:36	75-34-3	
1,2-Dichloroethane	**0.013**	mg/L	0.0010	0.00012	1		06/26/15 23:36	107-06-2	
1,1-Dichloroethene	**3.0**	mg/L	0.10	0.056	100		06/29/15 20:37	75-35-4	
cis-1,2-Dichloroethene	**0.039**	mg/L	0.0010	0.00019	1		06/26/15 23:36	156-59-2	
trans-1,2-Dichloroethene	**0.0031**	mg/L	0.0010	0.00049	1		06/26/15 23:36	156-60-5	
Tetrachloroethene	**0.034**	mg/L	0.0010	0.00046	1		06/26/15 23:36	127-18-4	
1,1,1-Trichloroethane	**4.3**	mg/L	0.10	0.048	100		06/29/15 20:37	71-55-6	
Trichloroethene	**0.053**	mg/L	0.0010	0.00047	1		06/26/15 23:36	79-01-6	
Vinyl chloride	**0.0047**	mg/L	0.0010	0.00062	1		06/26/15 23:36	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		06/26/15 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/26/15 23:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/26/15 23:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.060**	mg/L	0.0020	0.0019	1		07/01/15 23:21	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	115	%	50-150		1		07/01/15 23:21	17060-07-0	
Toluene-d8 (S)	94	%	50-150		1		07/01/15 23:21	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**263**	mg/L	5.0	5.0	1		06/29/15 12:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 15:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.6**	mg/L	5.0	2.5	1		06/30/15 18:34	16887-00-6	
Sulfate	**8.1**	mg/L	5.0	2.5	1		06/30/15 18:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.051**	mg/L	0.020	0.010	1		06/25/15 12:31		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2.8**	mg/L	1.0	0.50	1		07/03/15 02:36	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: DMW-12 **Lab ID: 92255988003** Collected: 06/23/15 19:50 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 10:26	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 10:26	74-85-1	
Methane	**5.6J**	ug/L	10.0	0.63	1		06/29/15 10:26	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.50	0.16	500		06/27/15 03:33	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.50	0.060	500		06/27/15 03:33	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.50	0.28	500		06/27/15 03:33	75-35-4	
cis-1,2-Dichloroethene	**0.12J**	mg/L	0.50	0.095	500		06/27/15 03:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.50	0.24	500		06/27/15 03:33	156-60-5	
Tetrachloroethene	**31.0**	mg/L	0.50	0.23	500		06/27/15 03:33	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.50	0.24	500		06/27/15 03:33	71-55-6	
Trichloroethene	**0.38J**	mg/L	0.50	0.24	500		06/27/15 03:33	79-01-6	
Vinyl chloride	ND	mg/L	0.50	0.31	500		06/27/15 03:33	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		500		06/27/15 03:33	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		500		06/27/15 03:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130		500		06/27/15 03:33	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0038**	mg/L	0.0020	0.0019	1		07/02/15 00:43	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%	50-150		1		07/02/15 00:43	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		07/02/15 00:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**171**	mg/L	5.0	5.0	1		06/29/15 13:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/29/15 15:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	5.0	2.5	1		06/30/15 18:56	16887-00-6	
Sulfate	**9.5**	mg/L	5.0	2.5	1		06/30/15 18:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.29**	mg/L	0.020	0.010	1		06/25/15 12:38		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**0.76J**	mg/L	1.0	0.50	1		07/03/15 02:47	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: ARW-4 **Lab ID: 92255988004** Collected: 06/24/15 08:15 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 13:10	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 13:10	74-85-1	
Methane	**4.0J**	ug/L	10.0	0.63	1		06/29/15 13:10	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.40	0.13	400		06/27/15 03:49	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.40	0.048	400		06/27/15 03:49	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.40	0.22	400		06/27/15 03:49	75-35-4	
cis-1,2-Dichloroethene	**2.6**	mg/L	0.40	0.076	400		06/27/15 03:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.40	0.20	400		06/27/15 03:49	156-60-5	
Tetrachloroethene	**22.6**	mg/L	0.40	0.18	400		06/27/15 03:49	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.40	0.19	400		06/27/15 03:49	71-55-6	
Trichloroethene	**0.86**	mg/L	0.40	0.19	400		06/27/15 03:49	79-01-6	
Vinyl chloride	ND	mg/L	0.40	0.25	400		06/27/15 03:49	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		400		06/27/15 03:49	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		400		06/27/15 03:49	17060-07-0	
Toluene-d8 (S)	100	%	70-130		400		06/27/15 03:49	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0020**	mg/L	0.0020	0.0019	1		07/02/15 01:03	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%	50-150		1		07/02/15 01:03	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		07/02/15 01:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**252**	mg/L	5.0	5.0	1		06/29/15 13:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/30/15 11:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**53.9**	mg/L	5.0	2.5	1		06/30/15 19:18	16887-00-6	
Sulfate	**9.2**	mg/L	5.0	2.5	1		06/30/15 19:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.56**	mg/L	0.020	0.010	1		06/25/15 12:39		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.7**	mg/L	1.0	0.50	1		07/03/15 03:37	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: DMW-9/DRW-3 **Lab ID: 92255988005** Collected: 06/24/15 10:00 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/29/15 13:18	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/29/15 13:18	74-85-1	
Methane	**1180**	ug/L	10.0	0.63	1		06/29/15 13:18	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.39**	mg/L	0.10	0.032	100		06/29/15 20:54	75-34-3	
1,2-Dichloroethane	**0.017**	mg/L	0.0010	0.00012	1		06/26/15 23:53	107-06-2	
1,1-Dichloroethene	**5.6**	mg/L	0.10	0.056	100		06/29/15 20:54	75-35-4	
cis-1,2-Dichloroethene	**0.024**	mg/L	0.0010	0.00019	1		06/26/15 23:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/26/15 23:53	156-60-5	
Tetrachloroethene	**0.028**	mg/L	0.0010	0.00046	1		06/26/15 23:53	127-18-4	
1,1,1-Trichloroethane	**4.7**	mg/L	0.10	0.048	100		06/29/15 20:54	71-55-6	
Trichloroethene	**0.016**	mg/L	0.0010	0.00047	1		06/26/15 23:53	79-01-6	
Vinyl chloride	**0.0048**	mg/L	0.0010	0.00062	1		06/26/15 23:53	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		06/26/15 23:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/26/15 23:53	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/26/15 23:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.031**	mg/L	0.0020	0.0019	1		07/02/15 13:22	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	117	%	50-150		1		07/02/15 13:22	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		07/02/15 13:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**250**	mg/L	5.0	5.0	1		06/29/15 13:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/30/15 11:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**40.9**	mg/L	5.0	2.5	1		06/30/15 19:40	16887-00-6	
Sulfate	**6.1**	mg/L	5.0	2.5	1		06/30/15 19:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		06/25/15 12:41		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**3.3**	mg/L	2.0	1.0	2		07/03/15 12:30	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: DMW-7/DRW 1 **Lab ID: 92255988006** Collected: 06/24/15 09:10 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/30/15 09:17	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/30/15 09:17	74-85-1	
Methane	**36.2**	ug/L	10.0	0.63	1		06/30/15 09:17	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.11**	mg/L	0.0010	0.00032	1		06/27/15 00:10	75-34-3	
1,2-Dichloroethane	**0.072**	mg/L	0.0010	0.00012	1		06/27/15 00:10	107-06-2	
1,1-Dichloroethene	**15.3**	mg/L	0.20	0.11	200		06/29/15 21:11	75-35-4	
cis-1,2-Dichloroethene	**0.00049J**	mg/L	0.0010	0.00019	1		06/27/15 00:10	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		06/27/15 00:10	156-60-5	
Tetrachloroethene	**0.00088J**	mg/L	0.0010	0.00046	1		06/27/15 00:10	127-18-4	
1,1,1-Trichloroethane	**9.9**	mg/L	0.20	0.096	200		06/29/15 21:11	71-55-6	
Trichloroethene	**0.011**	mg/L	0.0010	0.00047	1		06/27/15 00:10	79-01-6	
Vinyl chloride	**0.00074J**	mg/L	0.0010	0.00062	1		06/27/15 00:10	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		06/27/15 00:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		06/27/15 00:10	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/27/15 00:10	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.021**	mg/L	0.0020	0.0019	1		07/02/15 01:44	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	50-150		1		07/02/15 01:44	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		07/02/15 01:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**300**	mg/L	5.0	5.0	1		06/29/15 13:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/30/15 11:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**93.7**	mg/L	5.0	2.5	1		06/30/15 20:02	16887-00-6	
Sulfate	**9.4**	mg/L	5.0	2.5	1		06/30/15 20:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		06/25/15 12:40		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2.8**	mg/L	1.0	0.50	1		07/03/15 04:59	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: ARW-1 **Lab ID: 92255988007** Collected: 06/24/15 10:30 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	10.0	5.0	1		06/30/15 11:05	74-84-0	
Ethene	ND	ug/L	10.0	0.47	1		06/30/15 11:05	74-85-1	
Methane	**2.0J**	ug/L	10.0	0.63	1		06/30/15 11:05	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.20	0.064	200		06/27/15 04:06	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.20	0.024	200		06/27/15 04:06	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.20	0.11	200		06/27/15 04:06	75-35-4	
cis-1,2-Dichloroethene	**0.21**	mg/L	0.20	0.038	200		06/27/15 04:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.20	0.098	200		06/27/15 04:06	156-60-5	
Tetrachloroethene	**38.2**	mg/L	0.20	0.092	200		06/27/15 04:06	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.20	0.096	200		06/27/15 04:06	71-55-6	
Trichloroethene	**0.43**	mg/L	0.20	0.094	200		06/27/15 04:06	79-01-6	
Vinyl chloride	ND	mg/L	0.20	0.12	200		06/27/15 04:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		200		06/27/15 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		200		06/27/15 04:06	17060-07-0	
Toluene-d8 (S)	99	%	70-130		200		06/27/15 04:06	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	**0.0026**	mg/L	0.0020	0.0019	1		07/06/15 11:36	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	50-150		1		07/06/15 11:36	17060-07-0	
Toluene-d8 (S)	95	%	50-150		1		07/06/15 11:36	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**176**	mg/L	5.0	5.0	1		06/29/15 13:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	mg/L	0.10	0.10	1		06/30/15 11:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	5.0	2.5	1		06/30/15 20:24	16887-00-6	
Sulfate	**9.1**	mg/L	5.0	2.5	1		06/30/15 20:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.35**	mg/L	0.020	0.010	1		06/25/15 12:42		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.0**	mg/L	1.0	0.50	1		07/03/15 05:09	7440-44-0	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: EB-3 **Lab ID: 92255988008** Collected: 06/23/15 19:05 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		07/01/15 01:37	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		07/01/15 01:37	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		07/01/15 01:37	75-35-4	
cis-1,2-Dichloroethene	**0.00020J**	mg/L	0.0010	0.00019	1		07/01/15 01:37	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		07/01/15 01:37	156-60-5	
Tetrachloroethene	**0.016**	mg/L	0.0010	0.00046	1		07/01/15 01:37	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		07/01/15 01:37	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		07/01/15 01:37	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		07/01/15 01:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		07/01/15 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/01/15 01:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/01/15 01:37	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: DUP-3 **Lab ID: 92255988009** Collected: 06/23/15 00:00 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	**0.13**	mg/L	0.050	0.016	50		07/01/15 02:45	75-34-3	
1,2-Dichloroethane	**0.013J**	mg/L	0.050	0.0060	50		07/01/15 02:45	107-06-2	
1,1-Dichloroethene	**2.7**	mg/L	0.050	0.028	50		07/01/15 02:45	75-35-4	
cis-1,2-Dichloroethene	**0.046J**	mg/L	0.050	0.0095	50		07/01/15 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.050	0.024	50		07/01/15 02:45	156-60-5	
Tetrachloroethene	**0.036J**	mg/L	0.050	0.023	50		07/01/15 02:45	127-18-4	
1,1,1-Trichloroethane	**3.9**	mg/L	0.050	0.024	50		07/01/15 02:45	71-55-6	
Trichloroethene	**0.052**	mg/L	0.050	0.024	50		07/01/15 02:45	79-01-6	
Vinyl chloride	ND	mg/L	0.050	0.031	50		07/01/15 02:45	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		50		07/01/15 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		50		07/01/15 02:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130		50		07/01/15 02:45	2037-26-5	

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ANALYTICAL RESULTS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Sample: EB-4 **Lab ID: 92255988010** Collected: 06/24/15 07:15 Received: 06/25/15 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		07/01/15 01:54	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		07/01/15 01:54	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		07/01/15 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		07/01/15 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		07/01/15 01:54	156-60-5	
Tetrachloroethene	**0.0015**	mg/L	0.0010	0.00046	1		07/01/15 01:54	127-18-4	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		07/01/15 01:54	71-55-6	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		07/01/15 01:54	79-01-6	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		07/01/15 01:54	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		1		07/01/15 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/01/15 01:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		07/01/15 01:54	2037-26-5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: AIR/23596 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255988001, 92255988002

METHOD BLANK: 2009168 | Matrix: Water
Associated Lab Samples: 92255988001, 92255988002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/29/15 07:02	
Ethene	ug/L	ND	10.0	06/29/15 07:02	
Methane	ug/L	2.1J	10.0	06/29/15 07:02	

LABORATORY CONTROL SAMPLE & LCSD: 2009169 2009170

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	111	101	97	89	85-115	9	20	
Ethene	ug/L	106	103	95.6	97	90	85-115	8	20	
Methane	ug/L	60.7	61.6	61.1	102	101	85-115	1	20	

SAMPLE DUPLICATE: 2009179

Parameter	Units	60197086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	13.4	14.7	9	20	

SAMPLE DUPLICATE: 2009600

Parameter	Units	2021736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L		ND		20	
Methane	ug/L	930	908	2	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: AIR/23597 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255988003, 92255988004, 92255988005

METHOD BLANK: 2009180 Matrix: Water
Associated Lab Samples: 92255988003, 92255988004, 92255988005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/29/15 10:18	
Ethene	ug/L	ND	10.0	06/29/15 10:18	
Methane	ug/L	3.7J	10.0	06/29/15 10:18	

LABORATORY CONTROL SAMPLE & LCSD: 2009181 2009182

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	101	106	89	93	85-115	4	20	
Ethene	ug/L	106	95.6	100	90	94	85-115	5	20	
Methane	ug/L	60.7	61.1	62.6	101	103	85-115	2	20	

SAMPLE DUPLICATE: 2009713

Parameter	Units	92255988003 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	5.6J	4.3J		20	

SAMPLE DUPLICATE: 2009718

Parameter	Units	92256033005 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	0.62J	0.55J		20	
Methane	ug/L	31.5	28.7	9	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: AIR/23607 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92255988006, 92255988007

METHOD BLANK: 2010405 | Matrix: Water
Associated Lab Samples: 92255988006, 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/30/15 08:58	
Ethene	ug/L	ND	10.0	06/30/15 08:58	
Methane	ug/L	4.9J	10.0	06/30/15 08:58	

LABORATORY CONTROL SAMPLE & LCSD: 2010406 2010407

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	113	104	100	91	85-115	9	20	
Ethene	ug/L	106	107	96.7	101	91	85-115	10	20	
Methane	ug/L	60.7	65.4	59.6	108	98	85-115	9	20	

SAMPLE DUPLICATE: 2010609

Parameter	Units	92255988006 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	36.2	50.2	32	20	R1

SAMPLE DUPLICATE: 2010610

Parameter	Units	92255988007 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	2.0J	2.1J		20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32334 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1496051 Matrix: Water
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
1,1-Dichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
1,1-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
1,2-Dichloroethane	mg/L	ND	0.0010	06/26/15 22:29	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Tetrachloroethene	mg/L	ND	0.0010	06/26/15 22:29	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Trichloroethene	mg/L	ND	0.0010	06/26/15 22:29	
Vinyl chloride	mg/L	ND	0.0010	06/26/15 22:29	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/26/15 22:29	
4-Bromofluorobenzene (S)	%	106	70-130	06/26/15 22:29	
Toluene-d8 (S)	%	100	70-130	06/26/15 22:29	

LABORATORY CONTROL SAMPLE: 1496052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.052	104	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	98	70-130	
1,1-Dichloroethene	mg/L	.05	0.055	110	70-132	
1,2-Dichloroethane	mg/L	.05	0.045	89	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.049	97	70-131	
Tetrachloroethene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.052	103	70-130	
Trichloroethene	mg/L	.05	0.050	99	70-130	
Vinyl chloride	mg/L	.05	0.056	112	50-150	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496053 1496054

Parameter	Units	92255362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	7.7 ug/L	.08	.08	0.11	0.10	128	121	70-130	5	30	
1,1-Dichloroethane	mg/L	58.8 ug/L	.08	.08	0.18	0.18	147	152	70-130	2	30	M1
1,1-Dichloroethene	mg/L	342 ug/L	.08	.08	0.51	0.43	211	110	70-166	17	30	M1
1,2-Dichloroethane	mg/L	ND	.08	.08	0.085	0.078	102	93	70-130	9	30	
cis-1,2-Dichloroethene	mg/L	ND	.08	.08	0.089	0.084	109	104	70-130	5	30	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496053 1496054

Parameter	Units	92255362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	mg/L	ND	.08	.08	0.094	0.087	117	108	70-130	8	30	
trans-1,2-Dichloroethene	mg/L	ND	.08	.08	0.095	0.088	118	110	70-130	7	30	
Trichloroethene	mg/L	ND	.08	.08	0.088	0.080	109	99	69-151	9	30	
Vinyl chloride	mg/L	ND	.08	.08	0.097	0.087	121	108	70-130	11	30	
1,2-Dichloroethane-d4 (S)	%						106	107	70-130			
4-Bromofluorobenzene (S)	%						116	117	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32373 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255988008, 92255988009, 92255988010

METHOD BLANK: 1498147 Matrix: Water
Associated Lab Samples: 92255988008, 92255988009, 92255988010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	06/30/15 22:48	
1,1-Dichloroethane	mg/L	ND	0.0010	06/30/15 22:48	
1,1-Dichloroethene	mg/L	ND	0.0010	06/30/15 22:48	
1,2-Dichloroethane	mg/L	ND	0.0010	06/30/15 22:48	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	06/30/15 22:48	
Tetrachloroethene	mg/L	ND	0.0010	06/30/15 22:48	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	06/30/15 22:48	
Trichloroethene	mg/L	ND	0.0010	06/30/15 22:48	
Vinyl chloride	mg/L	ND	0.0010	06/30/15 22:48	
1,2-Dichloroethane-d4 (S)	%	93	70-130	06/30/15 22:48	
4-Bromofluorobenzene (S)	%	113	70-130	06/30/15 22:48	
Toluene-d8 (S)	%	101	70-130	06/30/15 22:48	

LABORATORY CONTROL SAMPLE: 1498148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.051	101	70-130	
1,1-Dichloroethane	mg/L	.05	0.049	99	70-130	
1,1-Dichloroethene	mg/L	.05	0.053	106	70-132	
1,2-Dichloroethane	mg/L	.05	0.047	93	70-130	
cis-1,2-Dichloroethene	mg/L	.05	0.051	101	70-131	
Tetrachloroethene	mg/L	.05	0.051	103	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.053	106	70-130	
Trichloroethene	mg/L	.05	0.050	100	70-130	
Vinyl chloride	mg/L	.05	0.053	106	50-150	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1499122

Parameter	Units	92256203002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	.02	0.020	102	70-130	
1,1-Dichloroethane	mg/L	ND	.02	0.020	102	70-130	
1,1-Dichloroethene	mg/L	ND	.02	0.022	112	70-166	
1,2-Dichloroethane	mg/L	ND	.02	0.019	93	70-130	
cis-1,2-Dichloroethene	mg/L	ND	.02	0.021	104	70-130	
Tetrachloroethene	mg/L	12.8 ug/L	.02	0.034	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

MATRIX SPIKE SAMPLE: 1499122

Parameter	Units	92256203002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	.02	0.023	114	70-130	
Trichloroethene	mg/L	ND	.02	0.021	103	69-151	
Vinyl chloride	mg/L	ND	.02	0.022	109	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				112	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1499123

Parameter	Units	92256203003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethane	mg/L	ND	ND		30	
1,1-Dichloroethene	mg/L	ND	ND		30	
1,2-Dichloroethane	mg/L	ND	ND		30	
cis-1,2-Dichloroethene	mg/L	ND	ND		30	
Tetrachloroethene	mg/L	10.8 ug/L	0.0095	13	30	
trans-1,2-Dichloroethene	mg/L	ND	ND		30	
Trichloroethene	mg/L	ND	ND		30	
Vinyl chloride	mg/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	96	1		
4-Bromofluorobenzene (S)	%	111	111	0		
Toluene-d8 (S)	%	100	101	0		

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32397
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255988002

METHOD BLANK: 1499592
Matrix: Water
Associated Lab Samples: 92255988002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:47	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/01/15 15:47	
Toluene-d8 (S)	%	94	50-150	07/01/15 15:47	

LABORATORY CONTROL SAMPLE: 1499593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499594 1499595

Parameter	Units	92255988002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	mg/L	0.060	.02	.02	0.075	0.080	78	102	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						114	115	50-150		150	
Toluene-d8 (S)	%						93	92	50-150		150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32398 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255988001, 92255988003, 92255988004, 92255988006

METHOD BLANK: 1499597 Matrix: Water
Associated Lab Samples: 92255988001, 92255988003, 92255988004, 92255988006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/01/15 15:26	
1,2-Dichloroethane-d4 (S)	%	109	50-150	07/01/15 15:26	
Toluene-d8 (S)	%	95	50-150	07/01/15 15:26	

LABORATORY CONTROL SAMPLE: 1499598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	99	71-125	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			96	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32412
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255988005

METHOD BLANK: 1500566
Matrix: Water
Associated Lab Samples: 92255988005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/02/15 11:18	
1,2-Dichloroethane-d4 (S)	%	104	50-150	07/02/15 11:18	
Toluene-d8 (S)	%	91	50-150	07/02/15 11:18	

LABORATORY CONTROL SAMPLE: 1500567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.019	97	71-125	
1,2-Dichloroethane-d4 (S)	%			108	50-150	
Toluene-d8 (S)	%			91	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: MSV/32434
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92255988007

METHOD BLANK: 1502034
Matrix: Water
Associated Lab Samples: 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	ND	0.0020	07/06/15 10:34	
1,2-Dichloroethane-d4 (S)	%	88	50-150	07/06/15 10:34	
Toluene-d8 (S)	%	90	50-150	07/06/15 10:34	

LABORATORY CONTROL SAMPLE: 1502035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	mg/L	.02	0.020	99	71-125	
1,2-Dichloroethane-d4 (S)	%			87	50-150	
Toluene-d8 (S)	%			92	50-150	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WET/31629 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1255660 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	06/29/15 12:05	

LABORATORY CONTROL SAMPLE: 1255661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	250	239	96	90-110	

SAMPLE DUPLICATE: 1255662

Parameter	Units	35194657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	168	171	2	20	

SAMPLE DUPLICATE: 1255663

Parameter	Units	92255988006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	300	297	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WET/38443 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255988001, 92255988002, 92255988003

METHOD BLANK: 1496716 Matrix: Water
Associated Lab Samples: 92255988001, 92255988002, 92255988003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/29/15 15:30	

LABORATORY CONTROL SAMPLE: 1496717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.50	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496718 1496719

Parameter	Units	92255813007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.78	0.78	157	157	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496720 1496721

Parameter	Units	92255826003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.47	0.47	94	94	90-110	0	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WET/38471 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1497728 Matrix: Water
Associated Lab Samples: 92255988004, 92255988005, 92255988006, 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/30/15 11:00	

LABORATORY CONTROL SAMPLE: 1497729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.53	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497730 1497731

Parameter	Units	92255929002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	ND	ND	8	8	90-110		10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497732 1497733

Parameter	Units	92256210004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	ND	ND	7	7	90-110		10	M1

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WETA/47761 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1256342 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	06/30/15 10:26	
Sulfate	mg/L	ND	5.0	06/30/15 10:26	

LABORATORY CONTROL SAMPLE: 1256343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Sulfate	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256344 1256345

Parameter	Units	2021747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	33.7	50	50	86.7	86.1	106	105	90-110	1	20	
Sulfate	mg/L	ND	50	50	48.0	47.4	93	92	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256346 1256347

Parameter	Units	35194118001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.3	50	50	95.5	96.0	106	107	90-110	0	20	
Sulfate	mg/L	2.5U	50	50	47.8	48.1	93	94	90-110	1	20	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WETA/23472 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1494477 | Matrix: Water
Associated Lab Samples: 92255988001, 92255988002, 92255988003, 92255988004, 92255988005, 92255988006, 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/25/15 12:23	

LABORATORY CONTROL SAMPLE: 1494478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494479 1494480

Parameter	Units	92255980001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.49	2.5	2.5	2.8	2.8	92	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494481 1494482

Parameter	Units	92255900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WETA/23572 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92255988001, 92255988002, 92255988003

METHOD BLANK: 1501239 Matrix: Water
Associated Lab Samples: 92255988001, 92255988002, 92255988003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/02/15 21:21	

LABORATORY CONTROL SAMPLE: 1501240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501241 1501242

Parameter	Units	92255783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.3	25	25	26.2	25.8	100	98	90-110	1	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501243 1501244

Parameter	Units	92255904001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.7	25	25	30.6	30.6	99	99	90-110	0	5	

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QUALITY CONTROL DATA

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

QC Batch: WETA/23573 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92255988004, 92255988005, 92255988006, 92255988007

METHOD BLANK: 1501245 Matrix: Water
Associated Lab Samples: 92255988004, 92255988005, 92255988006, 92255988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/03/15 03:08	

LABORATORY CONTROL SAMPLE: 1501246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501247 1501248

Parameter	Units	92255988004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.7	25	25	25.8	25.8	97	97	90-110	0	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501249 1501250

Parameter	Units	92256426004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	22.8	25	25	45.9	45.6	93	91	90-110	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255988001	**AMW-12**	RSK 175	AIR/23596		
92255988002	**OBG-W7**	RSK 175	AIR/23596		
92255988003	**DMW-12**	RSK 175	AIR/23597		
92255988004	**ARW-4**	RSK 175	AIR/23597		
92255988005	**DMW-9/DRW-3**	RSK 175	AIR/23597		
92255988006	**DMW-7/DRW 1**	RSK 175	AIR/23607		
92255988007	**ARW-1**	RSK 175	AIR/23607		
92255988001	**AMW-12**	EPA 8260	MSV/32334		
92255988002	**OBG-W7**	EPA 8260	MSV/32334		
92255988003	**DMW-12**	EPA 8260	MSV/32334		
92255988004	**ARW-4**	EPA 8260	MSV/32334		
92255988005	**DMW-9/DRW-3**	EPA 8260	MSV/32334		
92255988006	**DMW-7/DRW 1**	EPA 8260	MSV/32334		
92255988007	**ARW-1**	EPA 8260	MSV/32334		
92255988008	**EB-3**	EPA 8260	MSV/32373		
92255988009	**DUP-3**	EPA 8260	MSV/32373		
92255988010	**EB-4**	EPA 8260	MSV/32373		
92255988001	**AMW-12**	EPA 8260B Mod.	MSV/32398		
92255988002	**OBG-W7**	EPA 8260B Mod.	MSV/32397		
92255988003	**DMW-12**	EPA 8260B Mod.	MSV/32398		
92255988004	**ARW-4**	EPA 8260B Mod.	MSV/32398		
92255988005	**DMW-9/DRW-3**	EPA 8260B Mod.	MSV/32412		
92255988006	**DMW-7/DRW 1**	EPA 8260B Mod.	MSV/32398		
92255988007	**ARW-1**	EPA 8260B Mod.	MSV/32434		
92255988001	**AMW-12**	SM 2320B	WET/31629		
92255988002	**OBG-W7**	SM 2320B	WET/31629		
92255988003	**DMW-12**	SM 2320B	WET/31629		
92255988004	**ARW-4**	SM 2320B	WET/31629		
92255988005	**DMW-9/DRW-3**	SM 2320B	WET/31629		
92255988006	**DMW-7/DRW 1**	SM 2320B	WET/31629		
92255988007	**ARW-1**	SM 2320B	WET/31629		
92255988001	**AMW-12**	SM 4500-S2D	WET/38443		
92255988002	**OBG-W7**	SM 4500-S2D	WET/38443		
92255988003	**DMW-12**	SM 4500-S2D	WET/38443		
92255988004	**ARW-4**	SM 4500-S2D	WET/38471		
92255988005	**DMW-9/DRW-3**	SM 4500-S2D	WET/38471		
92255988006	**DMW-7/DRW 1**	SM 4500-S2D	WET/38471		
92255988007	**ARW-1**	SM 4500-S2D	WET/38471		
92255988001	**AMW-12**	EPA 300.0	WETA/47761		
92255988002	**OBG-W7**	EPA 300.0	WETA/47761		
92255988003	**DMW-12**	EPA 300.0	WETA/47761		
92255988004	**ARW-4**	EPA 300.0	WETA/47761		

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMC Dalton 02.20140392.00
Pace Project No.: 92255988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255988005	**DMW-9/DRW-3**	EPA 300.0	WETA/47761		
92255988006	**DMW-7/DRW 1**	EPA 300.0	WETA/47761		
92255988007	**ARW-1**	EPA 300.0	WETA/47761		
92255988001	**AMW-12**	EPA 353.2	WETA/23472		
92255988002	**OBG-W7**	EPA 353.2	WETA/23472		
92255988003	**DMW-12**	EPA 353.2	WETA/23472		
92255988004	**ARW-4**	EPA 353.2	WETA/23472		
92255988005	**DMW-9/DRW-3**	EPA 353.2	WETA/23472		
92255988006	**DMW-7/DRW 1**	EPA 353.2	WETA/23472		
92255988007	**ARW-1**	EPA 353.2	WETA/23472		
92255988001	**AMW-12**	SM 5310B	WETA/23572		
92255988002	**OBG-W7**	SM 5310B	WETA/23572		
92255988003	**DMW-12**	SM 5310B	WETA/23572		
92255988004	**ARW-4**	SM 5310B	WETA/23573		
92255988005	**DMW-9/DRW-3**	SM 5310B	WETA/23573		
92255988006	**DMW-7/DRW 1**	SM 5310B	WETA/23573		
92255988007	**ARW-1**	SM 5310B	WETA/23573		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Earth con

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

R Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.0/4.2 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: KDB 6/25/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrite
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	NMG	**Date:**	6-25-15
SRF Review:	AMB	**Date:**	6-26-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92255988

92255988

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of

1691342

Section A Required Client Information:
Company: Earthcon Consultants, Inc
Address: 1880 West Oak Pkwy Bldg 100 Suite 1
Marietta, GA 30062
Email To: KRivera
Phone: 770-973-2100 Fax: 770-973-2385
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Kristen Rivera
Copy To:
Purchase Order No.:
Project Name: Pine Bluff
Project Number: 02201 40392.00

Section C Invoice Information:
Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOCs 8260	1,4-Dioxane	Methane, ethane, ethene	TOC	Sulfate	Cl, Br, NO3	NH3 NP	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92255988
1	AMW-12	WT	G	6/23/15	1830				15	5			6	1			3	3	3	3	3	1	1	1		001
2	EB-3	WT	G	6/23/15	1905				3				3					3								008
3	OBG-W7	WT	G	6/23/15	17:20				15	5			6	1			3	3	3	3	3	1	1	1		002
4	DUP-3	WT	G	6/23/15	—				3				3					3								009
5	DMW-12	WT	G	6/23/15	1950				15	5			6	1			3	3	3	3	3	1	1	1		003
6	EB-4	WT	G	6/24/15	0715				3				3					3								010
7	AMW-4	WT	G	6/24/15	0815				15	5			6	1			3	3	3	3	3	1	1	1		004
8	DMW-9/DRW-3	WT	G	6/24/15	1000				15	5			6	1			3	3	3	3	3	1	1	1		005
9	DMW-7/DRW 1	WT	G	6/24/15	9:10				15	5			6	1			3	3	3	3	3	1	1	1		006
10	AMW-1	WT	G	6/24/15	1030				15	5			6	1			3	3	3	3	3	1	1	1		007
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	6/24/15	1530	[signature]	6-24-15	15:30				
	[signature]	6/24/15	16:10	[signature]	6/25/15	10:00	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kent M Davis
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 06/24/15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX D

GROUNDWATER AND SURFACE WATER TREND GRAPHS AND HISTORICAL DATA SUMMARY

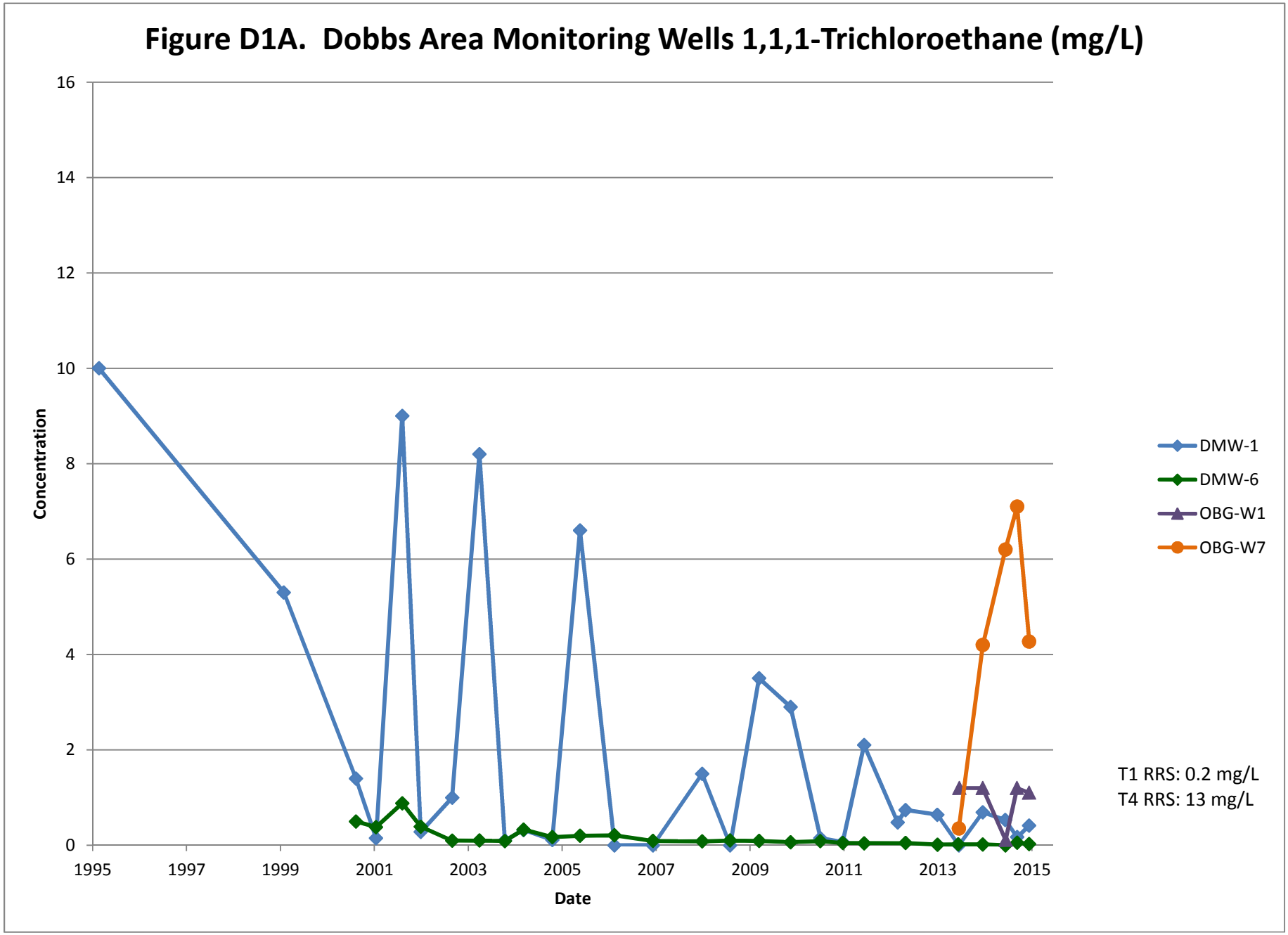
Figure D1A. Dobbs Area Monitoring Wells 1,1,1-Trichloroethane (mg/L)
Concentration
16
14
12
10
8
6
4
2
0
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
Date
DMW-1
DMW-6
OBG-W1
OBG-W7
T1 RRS: 0.2 mg/L
T4 RRS: 13 mg/L

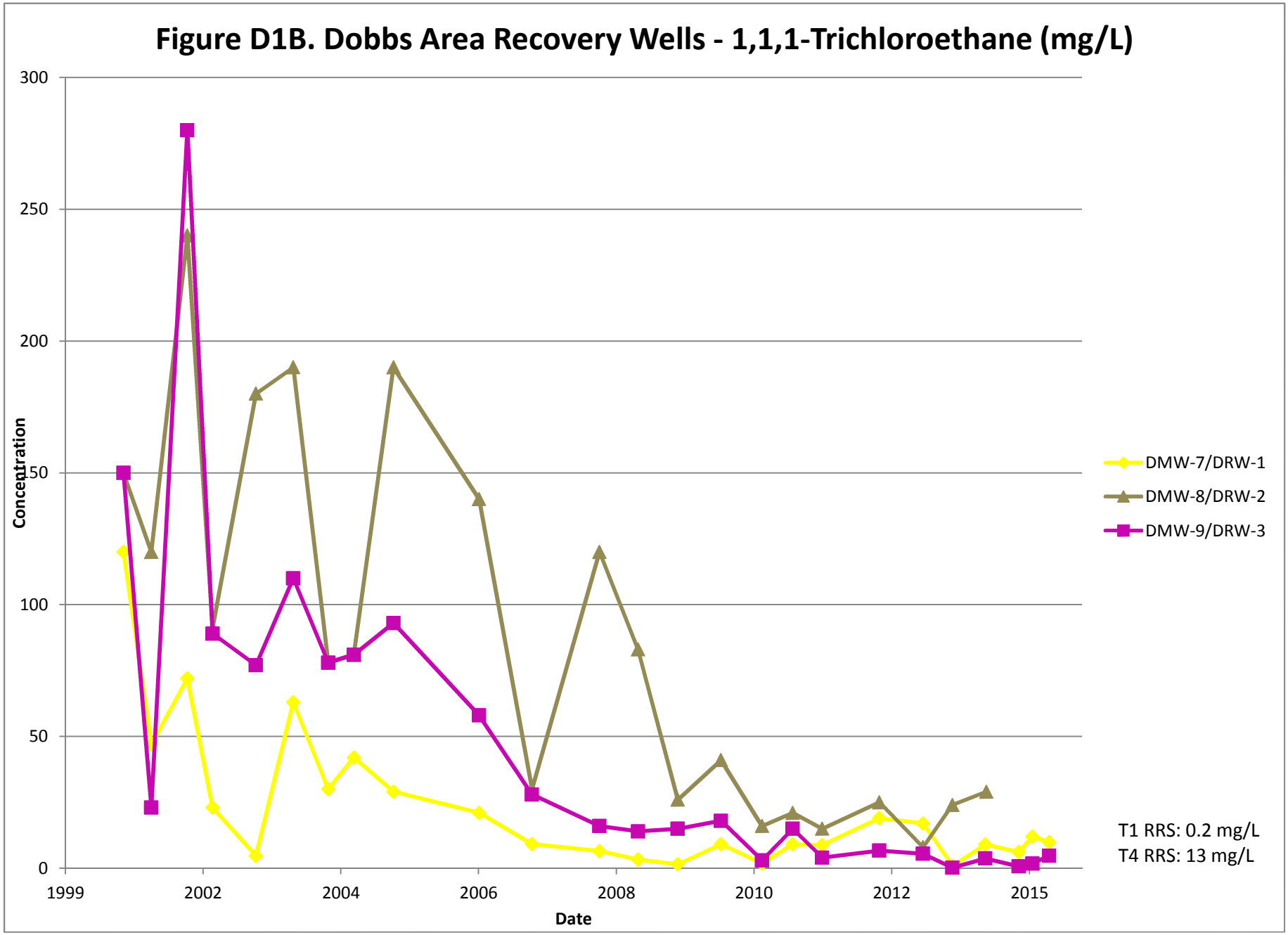
Figure D1B. Dobbs Area Recovery Wells - 1,1,1-Trichloroethane (mg/L)
300
250
200
150
100
50
0
Concentration
1999
2002
2004
2006
2008
2010
2012
2015
Date
DMW-7/DRW-1
DMW-8/DRW-2
DMW-9/DRW-3
T1 RRS: 0.2 mg/L
T4 RRS: 13 mg/L

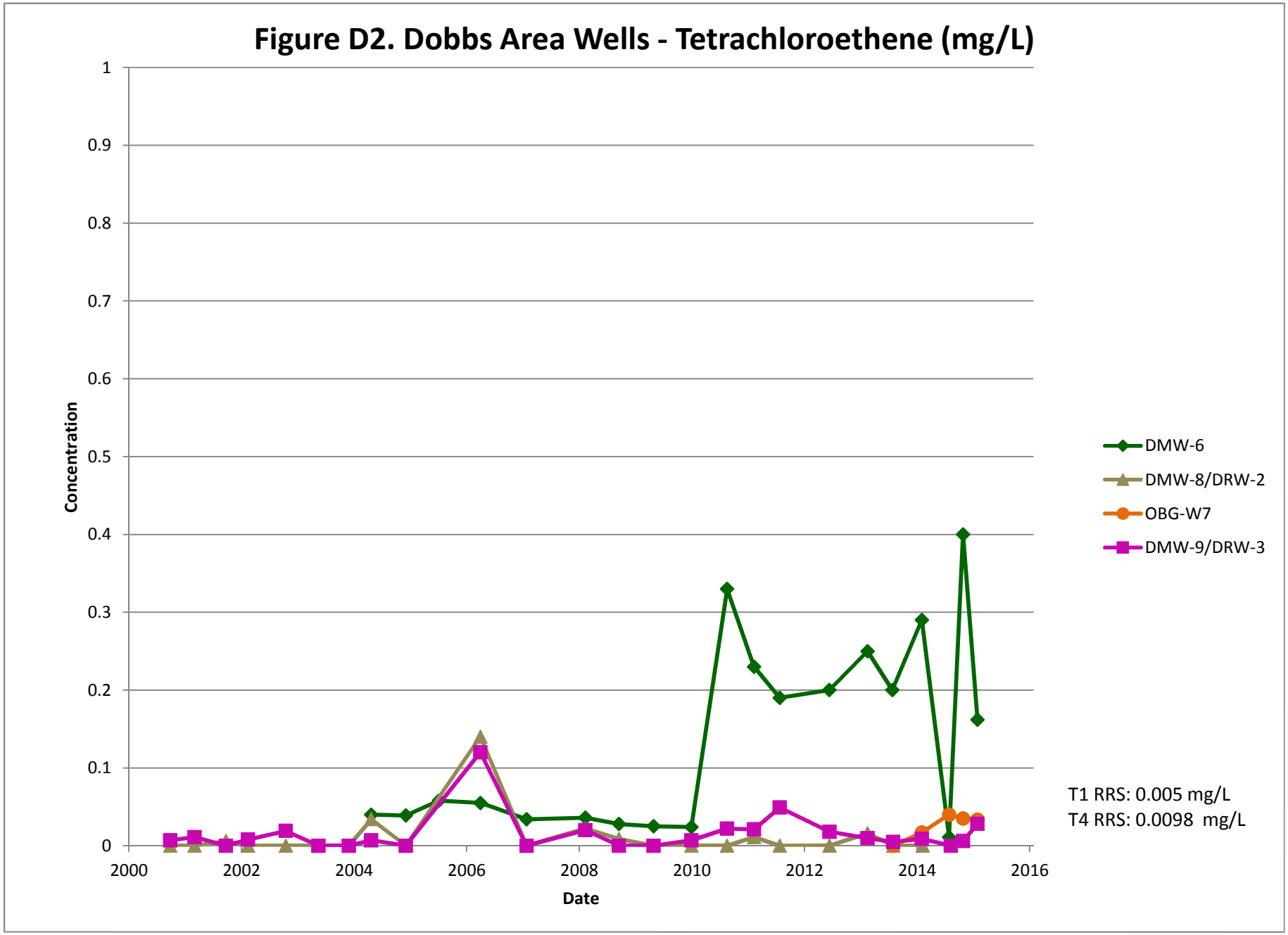
Figure D2. Dobbs Area Wells - Tetrachloroethene (mg/L)
Concentration
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2000
2002
2004
2006
2008
2010
2012
2014
2016
Date
DMW-6
DMW-8/DRW-2
OBG-W7
DMW-9/DRW-3
T1 RRS: 0.005 mg/L
T4 RRS: 0.0098 mg/L

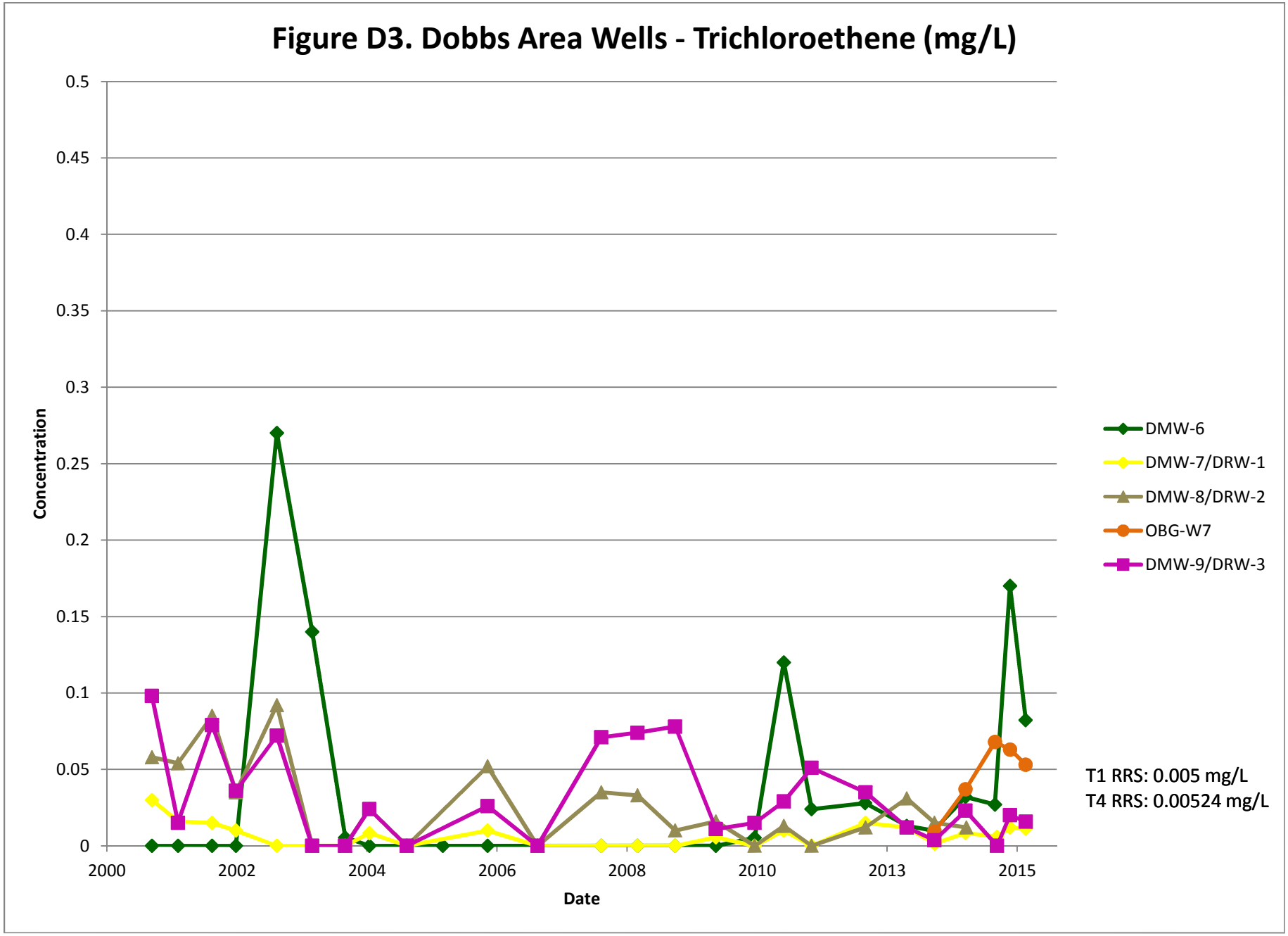
Figure D3. Dobbs Area Wells - Trichloroethene (mg/L)
Concentration
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2000
2002
2004
2006
2008
2010
2013
2015
Date
DMW-6
DMW-7/DRW-1
DMW-8/DRW-2
OBG-W7
DMW-9/DRW-3
T1 RRS: 0.005 mg/L
T4 RRS: 0.00524 mg/L

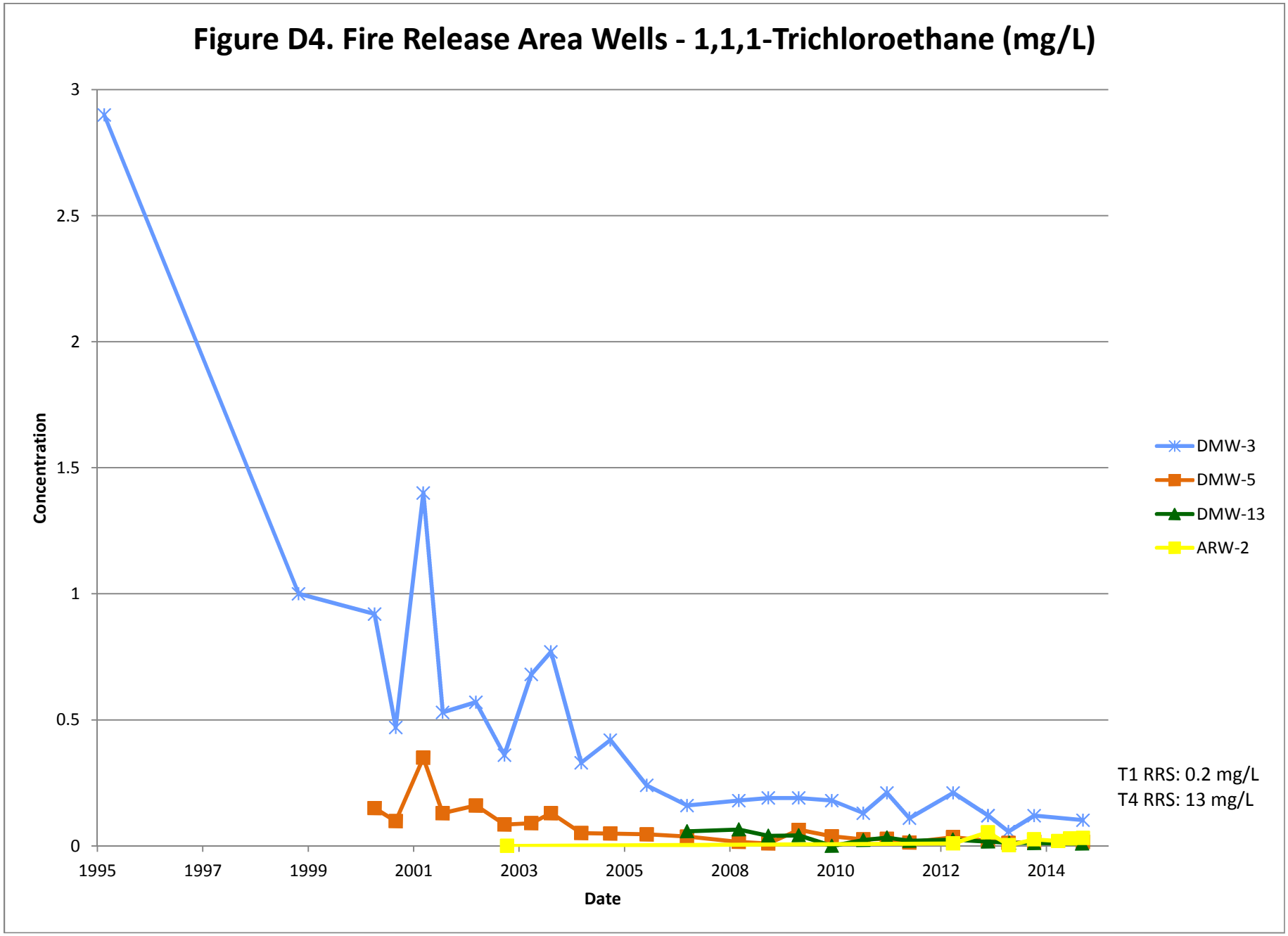
Figure D4. Fire Release Area Wells - 1,1,1-Trichloroethane (mg/L)
Concentration
3
2.5
2
1.5
1
0.5
0
1995
1997
1999
2001
2003
2005
2008
2010
2012
2014
Date
DMW-3
DMW-5
DMW-13
ARW-2
T1 RRS: 0.2 mg/L
T4 RRS: 13 mg/L

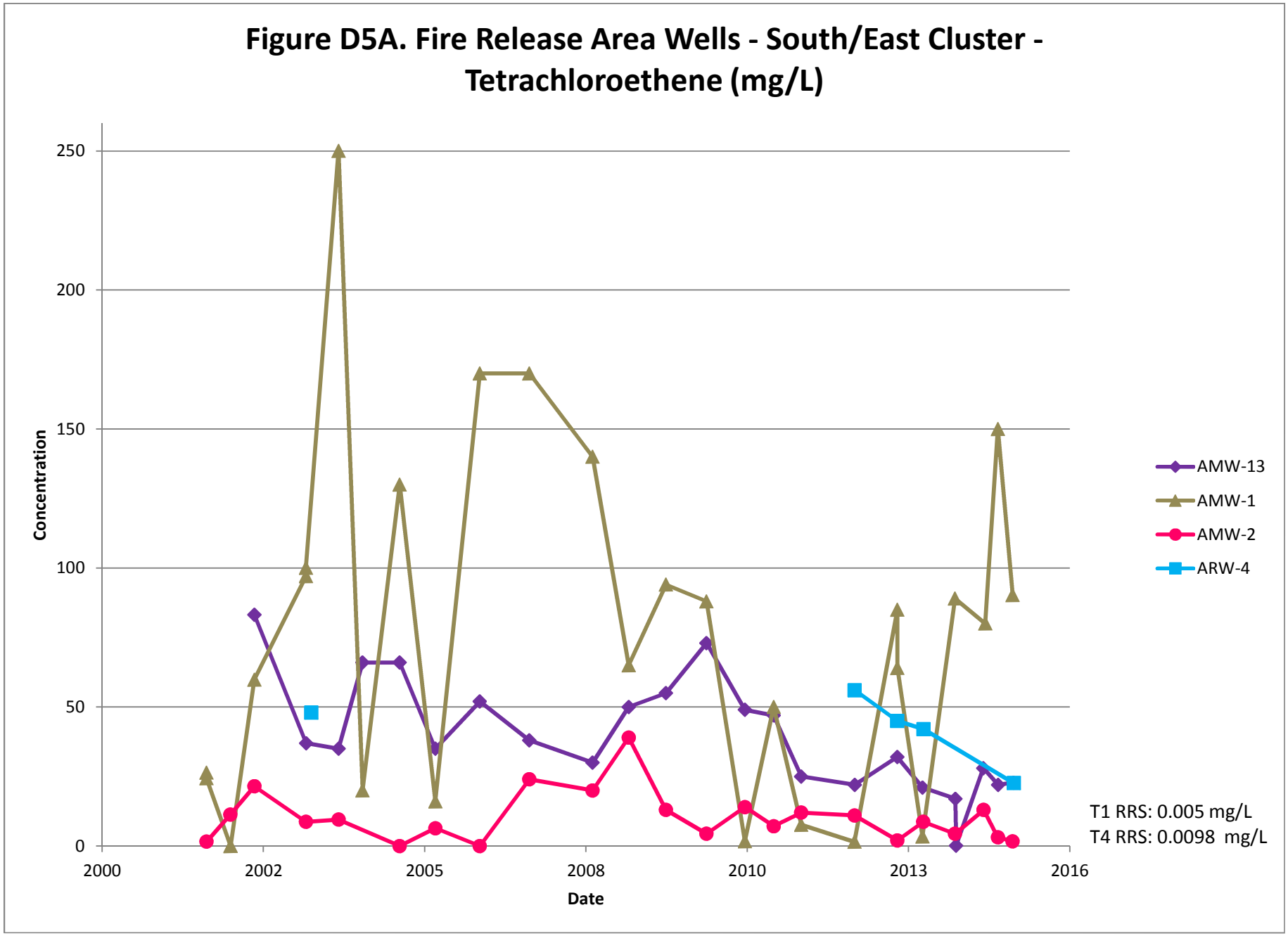
Figure D5A. Fire Release Area Wells - South/East Cluster - Tetrachloroethene (mg/L)
Concentration
250
200
150
100
50
0
2000
2002
2005
2008
2010
2013
2016
Date
AMW-13
AMW-1
AMW-2
ARW-4
T1 RRS: 0.005 mg/L
T4 RRS: 0.0098 mg/L

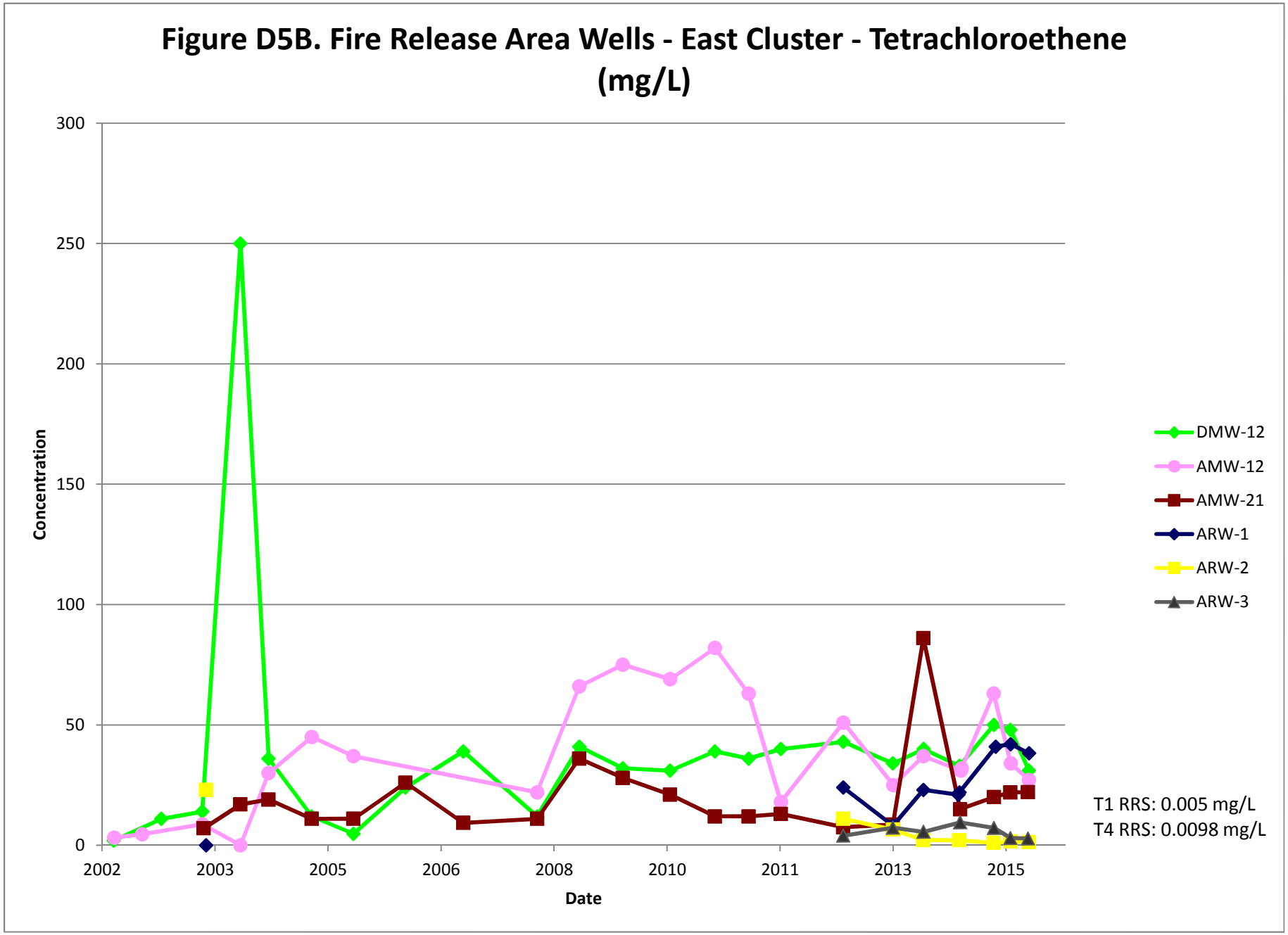
Figure D5B. Fire Release Area Wells - East Cluster - Tetrachloroethene (mg/L)
300
250
200
150
100
50
0
Concentration
2002
2003
2005
2006
2008
2010
2011
2013
2015
Date
DMW-12
AMW-12
AMW-21
ARW-1
ARW-2
ARW-3
T1 RRS: 0.005 mg/L
T4 RRS: 0.0098 mg/L

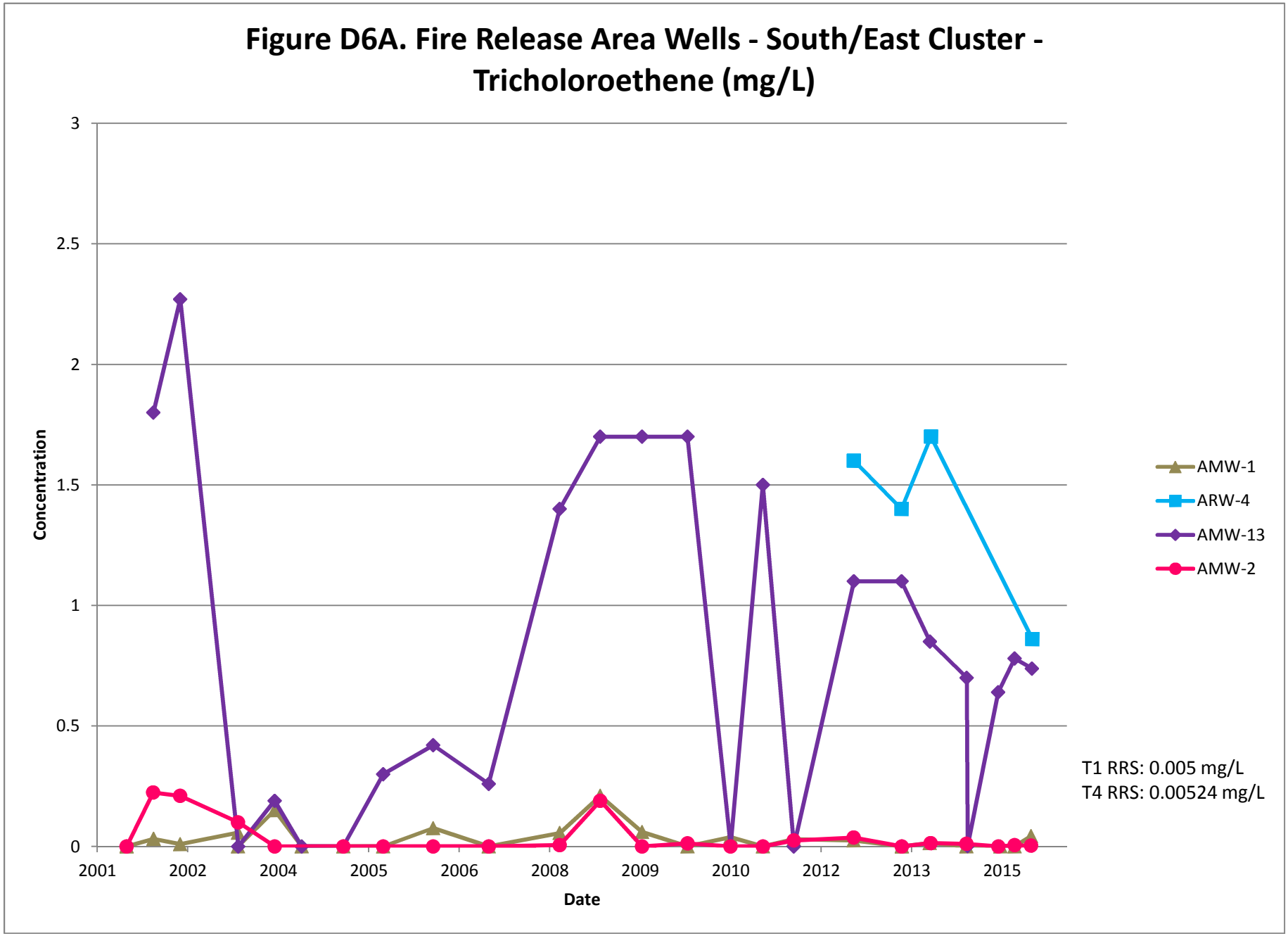
Figure D6A. Fire Release Area Wells - South/East Cluster - Tricholoroethene (mg/L)
Concentration
3
2.5
2
1.5
1
0.5
0
2001
2002
2004
2005
2006
2008
2009
2010
2012
2013
2015
Date
AMW-1
ARW-4
AMW-13
AMW-2
T1 RRS: 0.005 mg/L
T4 RRS: 0.00524 mg/L

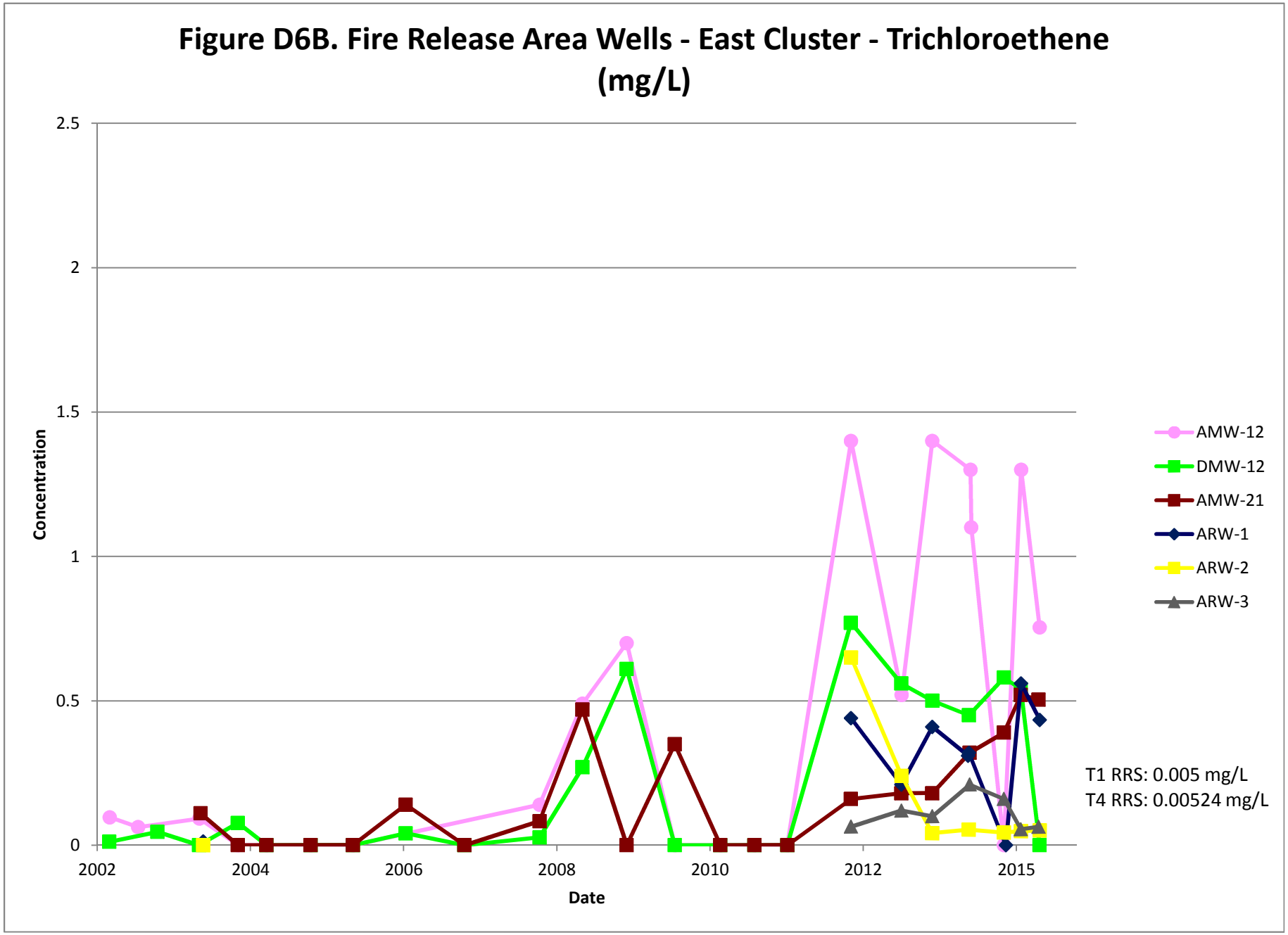
Figure D6B. Fire Release Area Wells - East Cluster - Trichloroethene (mg/L)
2.5
2
1.5
1
0.5
0
Concentration
2002
2004
2006
2008
2010
2012
2015
Date
AMW-12
DMW-12
AMW-21
ARW-1
ARW-2
ARW-3
T1 RRS: 0.005 mg/L
T4 RRS: 0.00524 mg/L

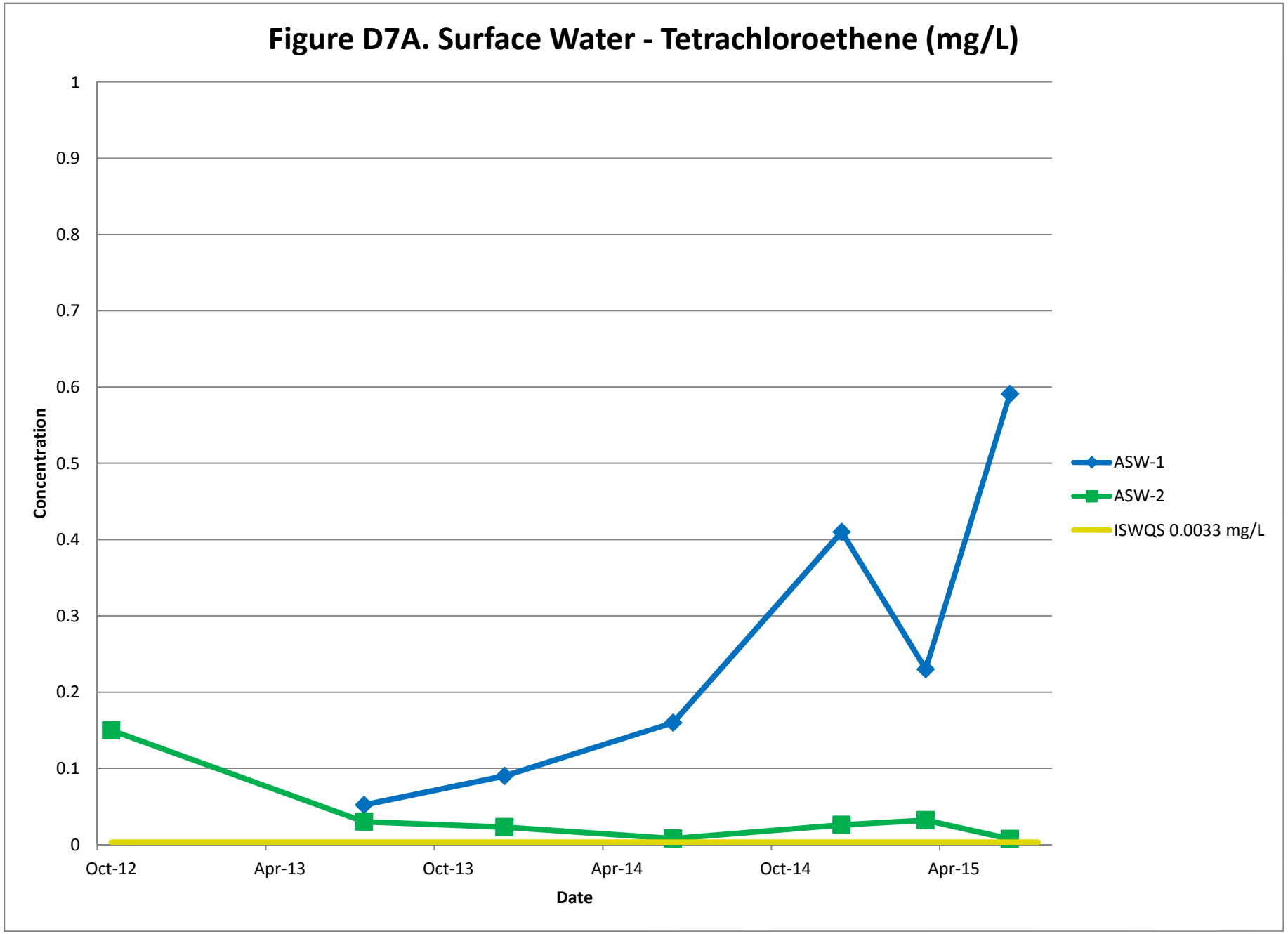
Figure D7A. Surface Water - Tetrachloroethene (mg/L)
Concentration
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Date
ASW-1
ASW-2
ISWQS 0.0033 mg/L

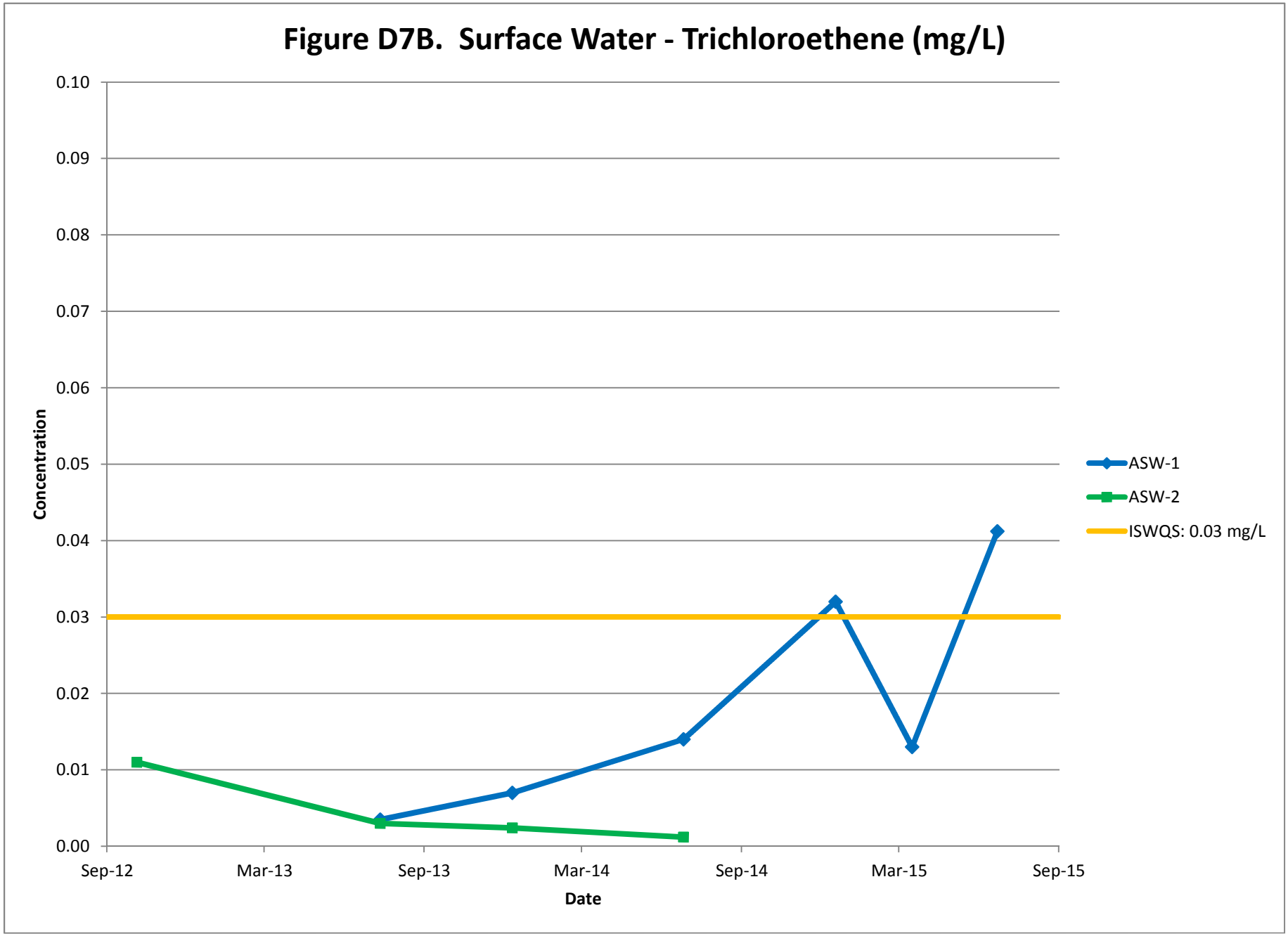
Figure D7B. Surface Water - Trichloroethene (mg/L)
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Concentration
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Date
ASW-1
ASW-2
ISWQS: 0.03 mg/L

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	cis-1,2-Dichloroethene mg/L	Tetrachloroethene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L	1,4-dioxane mg/L
DOBBS AREA											
DMW-1	2/22/1995	**10**	**0.043**	**1**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-1	3/8/1999	**5.3**	**1.7**	**2.5**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-1	10/4/2000	**1.4**	**0.09**	**0.45**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	3/14/2001	**0.15**	**0.036**	**0.14**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	10/9/2001	**9**	**0.11**	**2.1**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	3/5/2002	**0.28**	**0.081**	**0.27**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	11/12/2002	**1**	**0.15**	**0.48**	--	< 0.005	< 0.005	--	**0.0058**	--	--
DMW-1	6/17/2003	**8.2**	**0.022**	**2.2**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	1/6/2004	**0.1**	< 0.005	**0.033**	--	< 0.005	**0.0059**	--	< 0.005	--	--
DMW-1	6/3/2004	**0.32**	< 0.005	**0.12**	--	< 0.005	**0.007**	--	< 0.005	--	--
DMW-1	1/19/2005	**0.11**	< 0.005	**0.076**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	8/28/2005	**6.6**	**0.022**	**3.5**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	5/31/2006	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	4/3/2007	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	4/29/2008	**1.5**	**0.014**	**1.1**	--	< 0.005	**0.015**	--	< 0.005	--	--
DMW-1	12/9/2008	--	--	--	--	--	--	--	< 0.005	--	--
DMW-1	7/28/2009	**3.5**	**0.034**	**3.1**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-1	4/5/2010	**2.9**	**0.025**	**3.4**	--	< 0.005	**0.028**	--	< 0.005	--	--
DMW-1	11/29/2010	**0.15**	< 0.005	**0.45**	--	< 0.005	**0.0068**	--	**0.0068**	--	--
DMW-1	5/27/2011	**0.064**	< 0.005	**0.15**	--	< 0.005	**0.0052**	--	< 0.005	--	--
DMW-1	11/14/2011	**2.1**	**0.015**	**2.1**	--	< 0.005	< 0.006	--	< 0.005	--	--
DMW-1	8/7/2012	**0.48**	**0.024**	**0.69**	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-1	10/9/2012	**0.74**	**0.022**	**1.6**	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-1	6/20/2013	**0.64**	**0.012**	**0.94**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--
DMW-1	12/9/2013	--	**0.0079**	--	< 0.001	< 0.001	**0.00821**	< 0.001	< 0.001	< 0.001	--
DMW-1	6/17/2014	**0.69**	**0.01**	**1.2**	**0.0018**	< 0.001	**0.0022**	< 0.011	< 0.001	< 0.001	--
DMW-1	12/15/2014	**0.53**	0.0098	**0.91**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	**0.016**
DMW-1	3/19/2015	**0.17**	**0.015**	**0.32**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	**0.0059**
DMW-1	6/23/15*	**0.412**	**0.0101**	**0.765**	**0.0011 J**	< 0.005	**0.0028 J**	< 0.005	< 0.005	< 0.005	**0.0113**
DMW-2	2/22/1995	**0.0027**	< 0.005	< 0.005	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-2	3/8/1999	< 0.005	< 0.005	< 0.005	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-2	10/4/2000	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0092**	--	< 0.005	--	--
DMW-2	3/14/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-2	10/9/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-2	3/5/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/12/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.005**	--	**0.0055**	--	--
DMW-2	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0071**	--	< 0.005	--	--
DMW-2	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.012**	--	< 0.005	--	--
DMW-2	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0056**	--	< 0.005	--	--
DMW-2	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-2	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-2	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	< 0.001	--
DMW-2	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	< 0.001	< 0.001	< 0.001	--
DMW-2	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	--
DMW-2	12/16/2014	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
DMW-2	3/19/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.016	< 0.005	< 0.005	< 0.002	**0.0081**
DMW-2	6/23/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	**0.0069**
DMW-6	10/4/2000	**0.5**	**0.022**	**0.065**	--	**0.065**	< 0.005	--	< 0.005	--	--
DMW-6	3/14/2001	**0.38**	**0.036**	**0.11**	--	**0.11**	< 0.005	--	< 0.005	--	--
DMW-6	10/9/2001	**0.88**	**0.03**	**0.057**	--	**0.057**	**0.03**	--	< 0.005	--	--
DMW-6	3/5/2002	**0.39**	**0.026**	**0.1**	--	**0.1**	**0.012**	--	< 0.005	--	--
DMW-6	11/12/2002	**0.095**	**0.04**	< 0.005	--	< 0.005	< 0.005	--	**0.27**	--	--
DMW-6	6/17/2003	**0.1**	**0.11**	< 0.005	--	< 0.005	< 0.005	--	**0.14**	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DMW-6	1/6/2004	**0.089**	**0.11**	< 0.005	--	< 0.005	< 0.005	--	**0.0054**	--	--
DMW-6	6/3/2004	**0.33**	**0.018**	**0.071**	--	< 0.005	**0.04**	--	< 0.005	--	--
DMW-6	1/19/2005	**0.17**	**0.024**	**0.12**	--	< 0.005	**0.039**	--	< 0.005	--	--
DMW-6	8/28/2005	**0.2**	**0.02**	**0.095**	--	< 0.005	**0.058**	--	< 0.005	--	--
DMW-6	5/31/2006	**0.21**	**0.021**	**0.1**	--	< 0.005	**0.055**	--	< 0.005	--	--
DMW-6	4/3/2007	**0.092**	**0.015**	**0.045**	--	< 0.005	**0.034**	--	< 0.005	--	--
DMW-6	4/29/2008	**0.082**	< 0.005	**0.0082**	--	< 0.005	**0.036**	--	< 0.005	--	--
DMW-6	12/9/2008	**0.1**	**0.011**	**0.075**	--	< 0.005	**0.028**	--	< 0.005	--	--
DMW-6	7/28/2009	**0.092**	**0.013**	**0.032**	--	< 0.005	**0.025**	--	< 0.005	--	--
DMW-6	4/5/2010	**0.065**	< 0.005	**0.0051**	--	< 0.005	**0.024**	--	< 0.005	--	--
DMW-6	11/29/2010	**0.087**	**0.011**	**0.074**	--	**0.0067**	**0.33**	--	**0.0053**	--	--
DMW-6	5/27/2011	**0.048**	**0.017**	**0.041**	--	**0.15**	**0.23**	--	**0.12**	--	--
DMW-6	11/14/2011	**0.042**	**0.013**	**0.043**	--	**0.052**	**0.19**	--	**0.024**	--	--
DMW-6	10/9/2012	**0.049**	**0.0094**	**0.044**	--	**0.04**	**0.2**	< 0.005	**0.028**	< 0.002	--
DMW-6	6/21/2013	**0.013**	< 0.005	**0.012**	< 0.001	**0.024**	**0.25**	< 0.001	**0.013**	< 0.001	--
DMW-6	12/3/2013	**0.02**	**0.0044**	**0.014**	< 0.001	**0.024**	**0.2**	< 0.001	**0.01**	< 0.001	--
DMW-6	6/18/2014	**0.017**	**0.005**	**0.015**	< 0.001	**0.031**	**0.29**	< 0.001	**0.032**	< 0.001	--
DMW-6	12/16/2014	< 0.005	**0.0051**	< 0.005	< 0.005	**0.15**	**0.011**	< 0.005	**0.027**	< 0.002	**0.024**
DMW-6	3/19/2015	**0.055**	**0.036**	**0.023**	< 0.005	**0.12**	**0.4**	< 0.005	**0.17**	**0.33**	**0.025**
DMW-6	6/23/2015	**0.0284**	**0.0145**	**0.0131**	< 0.001	**0.0491**	**0.162**	< 0.001	**0.0822**	**0.0675**	**0.0226**
DMW-7/DRW-1	10/4/2000	**120**	**1.1**	**29**	--	< 0.005	< 0.005	--	**0.03**	--	--
DMW-7/DRW-1	3/14/2001	**47**	**0.073**	**15**	--	< 0.005	< 0.005	--	**0.016**	--	--
DMW-7/DRW-1	10/9/2001	**72**	**4**	**21**	--	< 0.005	< 0.005	--	**0.015**	--	--
DMW-7/DRW-1	3/5/2002	**23**	**0.053**	**17**	--	< 0.005	< 0.005	--	**0.01**	--	--
DMW-7/DRW-1	11/12/2002	**4.7**	**0.059**	**1.5**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	6/17/2003	**63**	**2.7**	**21**	--	< 0.25	< 0.26	--	< 0.25	--	--
DMW-7/DRW-1	1/6/2004	**30**	**1.8**	**15**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-7/DRW-1	6/3/2004	**42**	**0.99**	**14**	--	< 0.005	**0.034**	--	**0.0083**	--	--
DMW-7/DRW-1	1/19/2005	**29**	< 2.5	**9.8**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-7/DRW-1	5/31/2006	**21**	**1.4**	**16**	--	< 0.005	**0.039**	--	**0.01**	--	--
DMW-7/DRW-1	4/3/2007	**9.2**	**1.4**	**10**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-7/DRW-1	4/29/2008	**6.5**	**0.94**	**7.4**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	12/9/2008	**3.3**	**1.3**	**12**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	7/28/2009	**1.5**	**0.05**	**1.4**	--	< 0.25	< 0.26	--	< 0.005	--	--
DMW-7/DRW-1	4/5/2010	**9.1**	**0.92**	**10**	--	< 0.005	< 0.005	--	0.0056	--	--
DMW-7/DRW-1	11/29/2010	**1.8**	**0.22**	**4.8**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-7/DRW-1	5/27/2011	**9.1**	**0.4**	**2.7**	--	< 0.005	**0.0055**	--	**0.01**	--	--
DMW-7/DRW-1	11/14/2011	**8.8**	**1**	**9.4**	--	< 0.017	< 0.038	--	< 0.016	--	--
DMW-7/DRW-1	10/11/2012	**19**	**0.15**	**19**	--	< 0.005	**0.016**	< 0.005	**0.015**	**0.0022**	--
DMW-7/DRW-1	6/21/2013	**17**	**0.17**	**13**	**0.089**	< 0.001	**0.0017**	< 0.001	**0.012**	**0.0013**	--
DMW-7/DRW-1	12/11/2013	**0.89**	**0.013**	**0.93**	**0.0064**	< 0.001	< 0.02	< 0.001	**0.0014**	< 0.001	--
DMW-7/DRW-1	6/18/2014	**9**	**0.11**	**11**	**0.065**	< 0.005	< 0.005	< 0.005	**0.0084**	< 0.005	--
DMW-7/DRW-1	12/29/2014	**6.1**	**0.047**	**6.6**	**0.034**	< 0.005	< 0.005	< 0.005	**0.006**	< 0.002	**0.011**
DMW-7/DRW-1	3/19/2015	**12**	**0.078**	**17**	**0.08**	< 0.005	< 0.005	< 0.005	**0.012**	< 0.002	**0.019**
DMW-7/DRW-1	6/24/2015	**9.89**	**0.115**	**15.3**	**0.0718**	< 0.001	< 0.001	< 0.001	**0.0112**	< 0.001	**0.0207**
DMW-8/DRW-2	10/4/2000	**150**	**3.4**	**69**	--	**0.0058**	< 0.005	--	**0.058**	--	--
DMW-8/DRW-2	3/14/2001	**120**	**0.67**	**78**	--	**0.0091**	< 0.005	--	**0.054**	--	--
DMW-8/DRW-2	10/9/2001	**240**	**2.3**	**99**	--	**0.008**	**0.006**	--	**0.085**	--	--
DMW-8/DRW-2	3/5/2002	**91**	**0.29**	**52**	--	< 0.005	< 0.005	--	**0.035**	--	--
DMW-8/DRW-2	11/12/2002	**180**	**2.6**	**75**	--	< 0.005	< 0.005	--	**0.092**	--	--
DMW-8/DRW-2	6/17/2003	**190**	< 5	**26**	--	< 5	< 5	--	< 5	--	--
DMW-8/DRW-2	1/6/2004	**78**	**1.4**	**24**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-8/DRW-2	6/3/2004	**81**	**0.74**	**16**	--	< 0.005	**0.034**	--	**0.024**	--	--
DMW-8/DRW-2	1/19/2005	**190**	< 2.5	**51**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-8/DRW-2	5/31/2006	**140**	**1.6**	**35**	--	**0.007**	**0.14**	--	**0.052**	--	--
DMW-8/DRW-2	4/3/2007	**30**	**1**	**9.4**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-8/DRW-2	4/29/2008	**120**	**0.15**	**22**	--	< 0.005	**0.022**	--	**0.035**	--	--
DMW-8/DRW-2	12/9/2008	**83**	**0.35**	**46**	--	< 0.005	**0.0086**	--	**0.033**	--	--
DMW-8/DRW-2	7/28/2009	**26**	**0.71**	**5.7**	--	< 0.25	< 0.25	--	**0.01**	--	--
DMW-8/DRW-2	4/5/2010	**41**	**0.43**	**9.6**	--	< 0.005	< 0.005	--	**0.016**	--	--
DMW-8/DRW-2	11/29/2010	**16**	**0.87**	**7.6**	--	< 0.05	< 0.05	--	< 0.05	--	--
DMW-8/DRW-2	5/27/2011	**21**	**0.79**	**7.6**	--	< 0.005	**0.011**	--	**0.013**	--	--
DMW-8/DRW-2	11/14/2011	**15**	**0.5**	**4.3**	--	**0.034**	< 0.077	--	< 0.031	--	--
DMW-8/DRW-2	10/11/2012	**25**	**0.39**	**9.5**	--	< 0.005	< 0.005	< 0.005	**0.012**	**0.0037**	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DMW-8/DRW-2	6/21/2013	**8**	**0.68**	**3.2**	**0.012**	**0.023**	**0.016**	**0.0013**	**0.031**	**0.003**	--
DMW-8/DRW-2	12/9/2013	**24**	**0.15**	**8.1**	**0.019**	< 0.01	< 0.101	< 0.01	**0.015**	< 0.01	--
DMW-8/DRW-2	6/24/2014	**29**	**0.33**	**10**	**0.023**	< 0.01	< 1	< 0.01	**0.012**	< 0.01	--
DMW-9/DRW-3	10/4/2000	**150**	**1**	**100**	--	**0.009**	**0.007**	--	**0.098**	--	--
DMW-9/DRW-3	3/14/2001	**23**	**0.71**	**13**	--	**0.017**	**0.011**	--	**0.015**	--	--
DMW-9/DRW-3	10/9/2001	**280**	**3.2**	**65**	--	< 0.005	< 0.005	--	**0.079**	--	--
DMW-9/DRW-3	3/5/2002	**89**	**0.5**	**50**	--	**0.006**	**0.008**	--	**0.036**	--	--
DMW-9/DRW-3	11/12/2002	**77**	**0.26**	**77**	--	**0.012**	**0.019**	--	**0.072**	--	--
DMW-9/DRW-3	6/17/2003	**110**	< 5	**31**	--	< 5	< 5	--	< 5	--	--
DMW-9/DRW-3	1/6/2004	**78**	**1.4**	**24**	--	< 0.5	< 0.5	--	< 0.5	--	--
DMW-9/DRW-3	6/3/2004	**81**	**0.78**	**16**	--	< 0.005	**0.007**	--	**0.024**	--	--
DMW-9/DRW-3	1/19/2005	**93**	< 2.5	**40**	--	< 2.5	< 2.5	--	< 2.5	--	--
DMW-9/DRW-3	5/31/2006	**58**	**1.2**	**17**	--	**0.012**	**0.12**	--	**0.026**	--	--
DMW-9/DRW-3	4/3/2007	**28**	**1**	**7.3**	--	< 0.1	< 0.1	--	< 0.1	--	--
DMW-9/DRW-3	4/29/2008	**16**	**0.23**	**5.5**	--	< 0.005	**0.02**	--	**0.071**	--	--
DMW-9/DRW-3	12/9/2008	**14**	**0.56**	**9**	--	< 0.005	< 0.005	--	**0.074**	--	--
DMW-9/DRW-3	7/28/2009	**15**	**0.87**	**4.9**	--	< 0.25	< 0.25	--	**0.078**	--	--
DMW-9/DRW-3	4/5/2010	**18**	**0.6**	**6.5**	--	< 0.005	**0.007**	--	**0.011**	--	--
DMW-9/DRW-3	11/29/2010	**3**	**0.057**	**1.4**	--	**0.0082**	**0.022**	--	**0.015**	--	--
DMW-9/DRW-3	5/27/2011	**15**	**0.18**	**7.1**	--	**0.014**	**0.021**	--	**0.029**	--	--
DMW-9/DRW-3	11/14/2011	**4**	**0.11**	**2.1**	--	**0.048**	**0.049**	--	**0.051**	--	--
DMW-9/DRW-3	10/11/2012	**6.7**	**0.092**	**6.6**	--	**0.024**	**0.018**	< 0.005	**0.035**	**0.0054**	--
DMW-9/DRW-3	6/21/2013	**5.5**	**0.4**	**4.3**	**0.016**	**0.054**	**0.0097**	**0.0044**	**0.012**	**0.0063**	--
DMW-9/DRW-3	12/9/2013	**0.24**	**0.0049**	**0.13**	< 0.001	**0.0016**	**0.005**	< 0.001	**0.0036**	< 0.001	--
DMW-9/DRW-3	6/18/2014	**3.7**	**0.52**	**3.5**	**0.019**	**0.028**	**0.0088**	**0.0023**	**0.023**	**0.0058**	--
DMW-9/DRW-3	12/29/2014	**0.75**	**0.054**	**0.77**	< 0.005	0.0064	< 0.005	< 0.005	< 0.005	< 0.002	**0.0063**
DMW-9/DRW-3	3/19/2015	**1.8**	**0.11**	**2.7**	**0.011**	**0.041**	**0.0061**	< 0.005	**0.02**	**0.0056**	**0.019**
DMW-9/DRW-3	6/24/2015	**4.74**	**0.387**	**5.65**	**0.0171**	**0.0236**	**0.0281**	< 0.001	**0.0158**	**0.0048**	**0.0314**
DMW-10	3/5/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/12/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.011**	--	< 0.005	--	--
DMW-10	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-10	10/10/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-10	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-10	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-10	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	3/5/2002	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	11/12/2002	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/17/2003	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	1/6/2004	< 0.005	--	--	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DMW-11	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-11	6/19/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-11	6/23/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W1	12/12/2013	**1.2**	**0.0082**	**0.47**	**0.002**	< 0.001	< 0.02	< 0.001	< 0.001	< 0.001	--
OBG-W1	6/17/2014	**0.11**	**0.0015**	**0.14**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W1	12/17/2014	**1.2**	**0.0057**	**0.45**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
OBG-W1	3/18/2015	**1.1**	**0.0052**	**0.31**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
OBG-W1	6/23/15*	**1.02**	**0.005 J**	**0.331**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002
OBG-W2	12/12/2013	**0.0013**	< 0.001	< 0.001	< 0.001	**0.0028**	**0.31**	< 0.001	**0.0039**	< 0.001	--
OBG-W2	6/27/2014	**0.002**	< 0.001	< 0.001	< 0.001	< 0.001	**0.0076**	< 0.001	< 0.001	< 0.001	--
OBG-W2	6/23/2015	**0.0031**	< 0.001	< 0.001	< 0.001	< 0.001	**0.0014**	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W7	12/9/2013	**0.35**	**0.0068**	**0.11**	< 0.001	**0.0041**	< 0.01	< 0.001	**0.0092**	< 0.001	--
OBG-W7	6/18/2014	**4.2**	**0.1**	**1.8**	**0.0088**	**0.024**	**0.017**	**0.0018**	**0.037**	**0.0039**	--
OBG-W7	12/16/2014	**6.2**	**0.099**	**1.8**	**0.0076**	**0.041**	**0.04**	< 0.005	**0.068**	**0.0059**	**0.072**
OBG-W7	3/19/2015	**7.1**	**0.16**	**3.7**	**0.02**	**0.039**	**0.035**	< 0.005	**0.063**	**0.0062**	**0.061**
OBG-W7	6/23/2015	**4.27**	**0.129**	**3.04**	**0.0126**	**0.0391**	**0.0335**	**0.0031**	**0.0531**	**0.0047**	**0.0597**
MW-22D	1/15/2015	**0.2**	**0.0085**	**0.11**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
MW-22D	3/18/2015	**0.29**	**0.011**	**0.14**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
MW-22D	6/22/15*	**0.188**	**0.0108**	**0.0974**	**0.00065 J**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.002
FIRE RELEASE AREA											
AMW-1	10/10/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**26.4**	--	< 0.005	< 0.005	--
AMW-1	3/8/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	**0.0311**	< 0.005	--
AMW-1	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**59.8**	--	**0.0097**	< 0.005	--
AMW-1	6/18/2003	< 0.5	< 0.5	< 0.5	--	< 0.5	**100**	--	< 0.5	< 0.5	--
AMW-1	1/6/2004	< 0.005	< 0.005	< 0.005	--	**0.045**	**250**	--	**0.15**	--	--
AMW-1	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**20**	--	< 2.5	--	--
AMW-1	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**130**	--	< 2.5	--	--
AMW-1	8/28/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**16**	--	< 2.5	--	--
AMW-1	5/31/2006	**0.01**	< 0.005	**0.011**	--	**0.072**	**170**	--	**0.076**	--	--
AMW-1	4/3/2007	< 1	< 1	< 1	--	< 1	**170**	--	< 1	--	--
AMW-1	4/29/2008	< 0.005	< 0.005	< 0.005	--	**0.062**	**140**	--	**0.056**	--	--
AMW-1	12/9/2008	< 0.005	< 0.005	< 0.005	--	**0.34**	**65**	--	**0.21**	--	--
AMW-1	7/28/2009	< 0.005	< 0.005	< 0.005	--	**0.0095**	**94**	--	**0.06**	--	--
AMW-1	4/5/2010	< 0.047	< 0.15	< 0.047	--	< 0.18	**88**	--	< 0.047	--	--
AMW-1	11/29/2010	**0.015**	< 0.005	< 0.005	--	**0.025**	**1.7**	--	0.039	--	--
AMW-1	5/27/2011	< 0.051	< 0.04	< 0.12	--	< 0.034	**50**	--	< 0.031	--	--
AMW-1	11/14/2011	**0.0076**	< 0.005	< 0.005	--	**0.0095**	**7.6**	--	**0.03**	--	--
AMW-1	10/9/2012	**0.013**	< 0.005	< 0.005	--	**0.0095**	**1.5**	< 0.005	**0.025**	< 0.002	--
AMW-1	7/2/2013	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**64**	< 0.25	< 0.25	< 0.25	--
AMW-1	12/4/2013	**0.0061**	< 0.001	**0.0024**	< 0.001	**0.0094**	**3.4**	< 0.001	**0.014**	< 0.001	--
AMW-1	6/24/2014	< 10	< 10	< 10	< 10	< 10	**89**	< 10	< 10	< 10	--
AMW-1	12/29/2014	<0.5	<0.5	<0.5	<0.5	< 0.5	**80**	<0.5	<0.5	<0.2	< 0.005
AMW-1	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.12 J**	**150**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-1	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	**0.0842**	**90.2**	< 0.001	**0.0427**	< 0.001	**0.0031**
AMW-2	10/10/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.56**	--	< 0.005	< 0.005	--
AMW-2	3/6/2002	**0.0477**	< 0.005	< 0.005	--	**0.0131**	**11.3**	--	**0.224**	< 0.005	--
AMW-2	8/2/2002	**0.0734**	< 0.005	**0.0132**	--	**0.0189**	**21.5**	--	**0.21**	< 0.005	--
AMW-2	6/18/2003	**0.023**	< 0.005	< 0.005	--	**0.023**	**8.7**	--	**0.1**	< 0.005	--
AMW-2	1/6/2004	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.5**	--	--	--	--
AMW-2	1/19/2005	< 0.005	< 0.005	< 0.005	--	--	< 0.005	--	< 0.005	--	--
AMW-2	8/28/2005	< 0.5	< 0.5	< 0.5	--	< 0.005	6.4	--	< 0.5	--	--
AMW-2	5/31/2006	--	--	--	--	< 0.5	--	--	--	--	--
AMW-2	4/3/2007	< 0.1	< 0.1	< 0.1	--	--	**24**	--	< 0.1	--	--
AMW-2	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.1	**20**	--	**0.006**	--	--
AMW-2	12/9/2008	**0.031**	< 0.005	**0.029**	--	**0.059**	**39**	--	**0.19**	--	--
AMW-2	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**13**	--	< 0.005	--	--
AMW-2	4/5/2010	**0.011**	< 0.005	**0.0051**	--	< 0.005	**4.4**	--	**0.013**	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-2	11/29/2010	< 0.25	< 0.25	< 0.25	--	< 0.25	**14**	--	< 0.25	--	--
AMW-2	5/27/2011	< 0.051	< 0.04	< 0.12	--	< 0.034	**7.1**	--	< 0.031	--	--
AMW-2	11/14/2011	**0.023**	< 0.005	**0.0054**	--	< 0.005	**12**	--	**0.025**	--	--
AMW-2	10/9/2012	**0.02**	< 0.005	**0.013**	--	**0.03**	**11**	< 0.005	**0.037**	< 0.002	--
AMW-2	7/2/2013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**2**	< 0.01	< 0.01	< 0.01	--
AMW-2	12/9/2013	< 0.1	< 0.001	< 0.1	< 0.001	**0.013**	**8.7**	< 0.001	**0.014**	< 0.001	--
AMW-2	6/24/2014	**0.0035**	< 0.001	**0.0012**	< 0.001	**0.018**	**4.4**	< 0.001	**0.011**	< 0.001	--
AMW-2	12/18/2014	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13**	< 0.5	< 0.5	< 0.2	< 0.005
AMW-2	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**3.1**	< 0.005	**0.0054**	< 0.002	< 0.005
AMW-2	6/16/2015	**0.0013**	< 0.001	< 0.001	< 0.001	**0.0024**	**1.68**	< 0.001	**0.0037**	< 0.001	< 0.002
AMW-3	10/10/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**68.5**	--	**0.0138**	< 0.005	--
AMW-3	3/7/2002	< 0.005	< 0.005	< 0.005	--	**0.0052**	--	--	**0.0228**	< 0.005	--
AMW-3	8/2/2002	--	--	--	--	--	--	--	--	--	--
AMW-3	6/18/2003	< 0.005	< 0.005	< 0.005	--	**0.026**	**8.5**	--	**0.34**	< 0.005	--
AMW-3	6/18/2003	< 0.005	< 0.005	< 0.005	--	**0.033**	**11**	--	**0.5**	< 0.005	--
AMW-3	1/6/2004	< 0.005	< 0.005	< 0.005	--	**0.039**	**6.8**	--	**0.065**	--	--
AMW-3	6/3/2004	< 0.25	< 0.25	< 0.25	--	< 0.25	**4.4**	--	< 0.25	--	--
AMW-3	1/19/2005	< 0.25	< 0.25	< 0.25	--	< 0.25	**5.3**	--	< 0.25	--	--
AMW-3	8/28/2005	< 0.25	< 0.25	< 0.25	--	< 0.25	**11**	--	< 0.25	--	--
AMW-3	5/31/2006	< 0.005	< 0.005	< 0.005	--	**0.067**	**7.3**	--	**0.067**	--	--
AMW-3	4/3/2007	< 0.05	< 0.05	< 0.05	--	**0.17**	**44**	--	**0.21**	--	--
AMW-3	4/29/2008	< 0.005	< 0.05	< 0.005	--	**0.08**	**29**	--	**0.14**	--	--
AMW-3	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**34**	--	**0.21**	--	--
AMW-3	4/5/2010	< 0.047	< 0.15	< 0.047	--	< 0.18	**17**	--	< 0.12	--	--
AMW-3	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.12**	--	< 0.005	--	--
AMW-3	5/27/2011	< 0.005	< 0.005	< 0.005	--	**0.2**	**15**	--	**0.13**	--	--
AMW-3	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.13**	--	< 0.005	--	--
AMW-3	7/2/2013	< 0.05	< 0.05	< 0.05	< 0.05	**0.061**	**12**	< 0.05	**0.056**	< 0.05	--
AMW-3	12/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	**0.029**	**1.8**	< 0.001	**0.019**	< 0.001	--
AMW-3	6/26/2014	< 0.01	< 0.01	< 0.01	< 0.01	**0.085**	**14**	< 0.01	**0.07**	< 0.01	--
AMW-3	12/19/2014	< 0.005	< 0.005	< 0.005	< 0.005	**0.021**	**6.2**	< 0.005	**0.02**	< 0.002	< 0.005
AMW-3	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-3	6/17/15*	< 0.1	< 0.1	< 0.1	< 0.1	**0.0321 J**	**22.9**	< 0.1	< 0.1	< 0.1	< 0.002
AMW-4	10/31/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-4	4/25/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-4	5/21/2002	--	--	--	--	--	--	--	--	--	--
AMW-4	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-4	10/10/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-4	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-4	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-5	11/9/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	4/25/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	6/19/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-5	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-5	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-5	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.047**	--	< 0.005	--	--
AMW-5	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.28**	--	< 0.005	--	--
AMW-5	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.18**	--	< 0.005	--	--
AMW-5	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.72**	--	< 0.005	--	--
AMW-5	10/10/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.43**	< 0.005	< 0.005	< 0.002	--
AMW-5	6/20/2013	< 0.001	< 0.001	< 0.001	--	< 0.001	**0.15**	--	< 0.001	--	--
AMW-5	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.25**	< 0.001	< 0.001	< 0.001	--
AMW-5	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.13**	< 0.001	< 0.001	< 0.001	--
AMW-5	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.285**	< 0.001	< 0.001	< 0.001	**0.002 J**
AMW-6	11/9/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	4/25/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	6/19/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-6	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0093**	--	< 0.005	--	--
AMW-6	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	5/31/2006	**0.012**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-6	4/3/2007	**0.0094**	< 0.005	< 0.005	--	< 0.005	**0.014**	--	< 0.005	--	--
AMW-6	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.032**	--	< 0.005	--	--
AMW-6	12/9/2008	**0.032**	< 0.005	**0.0076**	--	**0.084**	**1.8**	--	**0.023**	--	--
AMW-6	7/28/2009	**0.017**	< 0.005	< 0.005	--	< 0.005	**1.7**	--	**0.012**	--	--
AMW-6	4/5/2010	**0.046**	< 0.005	**0.016**	--	**0.037**	**2.8**	--	**0.032**	--	--
AMW-6	11/29/2010	**0.031**	< 0.005	**0.0094**	--	**0.013**	**1.7**	--	**0.032**	--	--
AMW-6	5/27/2011	**0.036**	< 0.005	**0.011**	--	**0.015**	**1.4**	--	**0.019**	--	--
AMW-6	11/14/2011	**0.021**	< 0.005	**0.0073**	--	**0.0082**	**1.3**	--	**0.015**	--	--
AMW-6	10/10/2012	< 0.023	< 0.005	< 0.012	--	**0.0079**	**1.1**	< 0.005	**0.012**	< 0.002	--
AMW-6	7/2/2013	**0.011**	< 0.001	**0.0043**	< 0.001	**0.0039**	**0.6**	< 0.001	**0.0063**	< 0.001	--
AMW-6	12/4/2013	**0.0071**	< 0.001	**0.0024**	< 0.001	**0.0025**	**0.5**	< 0.001	**0.005**	< 0.001	--
AMW-6	6/24/2014	**0.0072**	< 0.001	**0.0026**	< 0.001	**0.0024**	**0.36**	< 0.001	**0.0042**	< 0.001	--
AMW-6	6/16/2015	**0.0113**	< 0.001	**0.0065**	< 0.001	**0.0037**	**0.44**	< 0.001	**0.0071**	< 0.001	< 0.002
AMW-7	11/9/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	4/25/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	6/19/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-7	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-7	10/10/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-7	6/20/2013	**0.0028**	< 0.001	**0.0013**	< 0.001	< 0.001	**0.0033**	< 0.001	< 0.001	< 0.001	--
AMW-7	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0049**	< 0.001	< 0.001	< 0.001	--
AMW-7	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0088**	< 0.001	< 0.001	< 0.001	--
AMW-7	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0075**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-8	12/12/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-8	3/7/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0069**	--	< 0.005	< 0.005	--
AMW-8	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0071**	--	< 0.005	< 0.005	--
AMW-8	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-8	7/2/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.15**	< 0.001	< 0.001	< 0.001	--
AMW-8	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.7**	< 0.001	**0.0084**	< 0.001	--
AMW-8	6/19/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**2.7**	< 0.001	**0.0061**	< 0.001	--
AMW-8	12/29/2014	<0.05	< 0.05	<0.05	<0.05	<0.05	**5.2**	<0.05	<0.05	<0.02	**0.0059**
AMW-8	3/18/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**7.9**	< 0.005	0.021	< 0.002	< 0.005
AMW-8	6/18/15*	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**9.26**	< 0.05	< 0.05	< 0.05	**0.0066**

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-9	12/12/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0965**	--	< 0.005	< 0.005	--
AMW-9	3/7/2002	**0.0084**	< 0.005	**0.0116**	--	**0.0636**	**2**	--	**0.0339**	< 0.005	--
AMW-9	8/2/2002	**0.0226**	**0.0241**	**0.006**	--	**0.213**	**6.36**	--	**0.126**	< 0.005	--
AMW-9	6/18/2003	**0.09**	**0.02**	**0.075**	--	**0.92**	**23**	--	**0.21**	**0.017**	--
AMW-9	1/6/2004	**0.054**	**0.028**	**0.041**	--	**0.73**	**19**	--	**0.27**	--	--
AMW-9	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**14**	--	< 2.5	--	--
AMW-9	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**39**	--	< 2.5	--	--
AMW-9	8/28/2005	**0.005**	< 0.005	< 0.005	--	**0.046**	**2.1**	--	**0.02**	--	--
AMW-9	5/31/2006	**0.013**	**0.009**	**0.01**	--	**0.9**	**42**	--	**0.47**	--	--
AMW-9	4/3/2007	< 0.1	< 0.1	< 0.1	--	**3.1**	**30**	--	**1.4**	--	--
AMW-9	4/29/2008	< 0.005	< 0.005	< 0.005	--	**0.71**	**5.9**	--	**0.34**	--	--
AMW-9	12/9/2008	**0.012**	**0.012**	**0.019**	--	**1.7**	**86**	--	**1.3**	--	--
AMW-9	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**37**	--	**0.63**	--	--
AMW-9	4/5/2010	**0.03**	**0.013**	**0.026**	--	**1.7**	**51**	--	**1.2**	--	--
AMW-9	11/29/2010	< 2.5	< 2.5	< 2.5	--	< 2.5	**83**	--	< 2.5	--	--
AMW-9	5/27/2011	< 0.26	< 0.2	< 0.59	--	**1.7**	**42**	--	**1.3**	--	--
AMW-9	11/14/2011	< 0.26	< 0.2	< 0.59	--	--	**70**	--	--	--	--
AMW-9	10/11/2012	**0.015**	**0.0095**	**0.019**	--	**3.9**	**59**	**0.016**	**2.9**	**0.02**	--
AMW-9	7/3/2013	< 0.25	< 0.25	< 0.25	< 0.25	**5**	**63**	< 0.25	**2.7**	< 0.25	--
AMW-9	7/3/2013	< 0.25	< 0.25	< 0.25	< 0.25	**5**	**63**	< 0.25	**2.7**	< 0.25	--
AMW-9	12/11/2013	< 0.1	< 0.1	< 0.1	< 0.1	**2.6**	**22**	< 0.1	**1.3**	< 0.1	--
AMW-10	12/20/2001	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	--
AMW-10	3/8/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.728**	--	< 0.005	< 0.005	--
AMW-10	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.927**	--	< 0.005	< 0.005	--
AMW-10	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	**22**	--	< 0.005	< 0.005	--
AMW-10	1/6/2004	< 0.005	< 0.005	< 0.005	--	**0.031**	**28**	--	**0.049**	--	--
AMW-10	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**52**	--	< 2.5	--	--
AMW-10	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**35**	--	< 2.5	--	--
AMW-10	8/28/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**46**	--	< 2.5	--	--
AMW-10	5/31/2006	< 0.005	< 0.005	< 0.005	--	**0.026**	**53**	--	**0.17**	--	--
AMW-10	4/3/2007	< 0.5	< 0.5	< 0.5	--	< 0.5	**49**	--	< 0.5	--	--
AMW-10	4/29/2008	< 0.005	< 0.005	< 0.005	--	**0.014**	**15**	--	**0.063**	--	--
AMW-10	12/9/2008	< 0.005	< 0.005	< 0.005	--	**0.026**	**55**	--	**0.16**	--	--
AMW-10	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**26**	--	**0.12**	--	--
AMW-10	4/5/2010	< 0.005	< 0.005	< 0.005	--	**0.0081**	**4.8**	--	**0.031**	--	--
AMW-10	11/29/2010	< 0.25	< 0.25	< 0.25	--	< 0.25	**32**	--	< 0.25	--	--
AMW-10	5/27/2011	< 0.005	< 0.005	< 0.005	--	**0.047**	**4.2**	--	**0.054**	--	--
AMW-10	11/14/2011	< 0.026	< 0.02	< 0.059	--	< 0.017	**31**	--	--	--	--
AMW-10	10/11/2012	< 0.005	< 0.005	< 0.005	--	**0.021**	**14**	< 0.005	**0.096**	< 0.002	--
AMW-10	7/1/2013	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	**2.5**	< 0.01	**0.027**	< 0.01	--
AMW-10	12/5/2013	< 0.001	< 0.001	< 0.001	< 0.001	**0.0099**	**4.4**	< 0.001	**0.042**	< 0.001	--
AMW-10	6/24/2014	< 0.001	< 0.001	< 0.001	< 0.001	**0.018**	**2.7**	< 0.001	**0.048**	< 0.001	--
AMW-10	12/16/2014	< 0.005	< 0.005	< 0.005	< 0.005	**0.014**	**12**	< 0.005	**0.064**	< 0.002	< 0.005
AMW-10	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**13**	< 0.25	< 0.25	< 0.1	< 0.005
AMW-10	6/22/15*	< 0.025	< 0.025	< 0.025	< 0.025	**0.0156 J**	**31.8**	< 0.025	**0.0535**	< 0.025	**0.0057**
AMW-11D	1/21/2002	--	--	--	--	--	< 0.005	--	--	--	--
AMW-11D	3/8/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0338**	--	< 0.005	< 0.005	--
AMW-11D	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.0122**	--	< 0.005	< 0.005	--
AMW-11D	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-11D	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.025**	--	< 0.005	--	--
AMW-11D	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-11D	10/11/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-11D	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0011**	< 0.001	< 0.001	< 0.001	--
AMW-11D	12/5/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-11D	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.019**	< 0.001	< 0.001	< 0.001	--
AMW-11D	7/3/2014	< 0.1	< 0.1	< 0.1	< 0.1	**0.41**	**25**	< 0.1	**0.52**	< 0.1	--
AMW-11D	12/17/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.018**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-11D	3/18/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.022**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-11D	6/22/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.006**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-12	3/7/2002	**0.121**	**0.032**	**0.0562**	--	**0.11**	**3.18**	--	**0.0964**	< 0.005	--
AMW-12	8/2/2002	**0.178**	**0.0328**	**0.0996**	--	**0.074**	**4.62**	--	**0.0627**	< 0.005	--
AMW-12	6/18/2003	**0.25**	**0.045**	**0.11**	--	**0.094**	**8.7**	--	**0.092**	< 0.005	--
AMW-12	1/6/2004	**30**	< 0.5	< 0.5	--	< 0.5	< 0.5	--	< 0.5	--	--
AMW-12	6/3/2004	**1.9**	< 0.5	< 0.5	--	< 0.5	**30**	--	< 0.5	--	--
AMW-12	1/19/2005	< 0.5	< 0.5	< 0.5	--	< 0.5	**45**	--	< 0.5	--	--
AMW-12	8/28/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**37**	--	< 2.5	--	--
AMW-12	4/29/2008	**0.014**	**0.007**	**0.018**	--	**0.24**	**22**	--	**0.14**	--	--
AMW-12	12/9/2008	**0.025**	**0.026**	**0.057**	--	**0.67**	**66**	--	**0.49**	--	--
AMW-12	7/28/2009	**0.13**	**0.021**	**0.093**	--	**0.0095**	**75**	--	**0.7**	--	--
AMW-12	4/5/2010	< 0.047	< 0.15	< 0.047	--	< 0.18	**69**	--	< 0.047	--	--
AMW-12	11/29/2010	< 2.5	< 2.5	< 2.5	--	< 2.5	**82**	--	< 2.5	--	--
AMW-12	5/27/2011	< 0.26	< 0.2	< 0.59	--	< 0.17	**63**	--	< 0.16	--	--
AMW-12	11/14/2011	< 0.26	< 0.2	< 0.59	--	< 0.17	**18**	--	< 0.16	--	--
AMW-12	10/11/2012	**0.071**	**0.016**	**0.094**	--	**1.1**	**51**	< 0.005	**1.4**	**0.0066**	--
AMW-12	7/3/2013	< 0.1	< 0.1	< 0.1	< 0.1	**0.41**	**25**	< 0.1	**0.52**	< 0.1	--
AMW-12	12/10/2013	**0.046**	< 0.01	**0.042**	< 0.01	**0.84**	**37**	< 0.01	**1.4**	< 0.01	--
AMW-12	6/27/2014	**0.044**	< 0.02	**0.029**	< 0.02	**0.95**	**31**	**0.037**	**1.3**	< 0.02	--
AMW-12	7/1/2014	< 0.25	< 0.25	< 0.25	< 0.25	**1.8**	**32**	< 0.25	**1.1**	< 0.25	--
AMW-12	12/18/2014	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**63**	< 2.5	< 2.5	< 1	**0.0065**
AMW-12	3/19/15*	**0.077 J**	< 0.25	< 0.25	< 0.25	**0.79**	**34**	< 0.25	**1.3**	< 0.1	**0.0081**
AMW-12	6/23/15*	**0.531**	**0.0067**	**0.0572**	< 0.005	**0.858**	**27.1**	**0.0048 J**	**0.754**	< 0.005	**0.0093**
AMW-13	3/7/2002	**0.0288**	**0.0078**	< 0.005	--	**0.0967**	--	--	**1.8**	< 0.005	--
AMW-13	8/2/2002	**0.0254**	**0.0084**	< 0.005	--	**0.175**	**83.2**	--	**2.27**	< 0.005	--
AMW-13	6/19/2003	**0.087**	**0.014**	**0.06**	--	--	**37**	--	--	< 0.005	--
AMW-13	1/6/2004	**0.058**	**0.007**	**0.029**	--	0.093	**35**	--	**0.19**	--	--
AMW-13	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**66**	--	< 2.5	--	--
AMW-13	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**66**	--	< 2.5	--	--
AMW-13	8/28/2005	< 2.5	< 2.5	< 2.5	--	**0.34**	**35**	--	**0.3**	--	--
AMW-13	5/31/2006	**0.038**	**0.008**	**0.037**	--	**0.61**	**52**	--	**0.42**	--	--
AMW-13	4/3/2007	< 0.01	< 0.01	< 0.01	--	**0.35**	**38**	--	**0.26**	--	--
AMW-13	4/29/2008	**0.009**	**0.005**	**0.01**	--	**3.2**	**30**	--	**1.4**	--	--
AMW-13	12/9/2008	**0.008**	**0.006**	**0.017**	--	**3**	**50**	--	**1.7**	--	--
AMW-13	7/28/2009	**0.009**	< 0.005	**0.006**	--	**0.008**	**55**	--	**1.7**	--	--
AMW-13	4/5/2010	< 0.047	**0.15**	< 0.15	--	**2.5**	**73**	--	**1.7**	--	--
AMW-13	11/29/2010	< 2.5	< 2.5	< 2.5	--	< 2.5	**49**	--	< 0.25	--	--
AMW-13	5/27/2011	< 0.26	< 0.2	< 0.59	--	**2.2**	**47**	--	**1.5**	--	--
AMW-13	11/14/2011	< 0.51	< 0.4	< 1.2	--	--	**25**	--	--	--	--
AMW-13	10/11/2012	< 0.005	< 0.005	**0.0057**	--	**1.7**	**22**	**0.013**	**1.1**	**0.0035**	--
AMW-13	7/1/2013	< 0.25	< 0.25	< 0.25	< 0.25	**1.8**	**32**	< 0.25	**1.1**	< 0.25	--
AMW-13	12/5/2013	**0.0027**	**0.0017**	**0.0018**	< 0.001	**1.7**	**21**	**0.012**	**0.85**	**0.0026**	--
AMW-13	6/26/2014	< 0.01	< 0.01	< 0.01	< 0.01	**1.4**	**17**	< 0.01	**0.7**	< 0.01	--
AMW-13	7/1/2014	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.1**	< 0.001	**0.0016**	< 0.001	--
AMW-13	12/17/2014	< 0.005	< 0.005	< 0.005	< 0.005	**0.89**	**28**	0.0067	**0.64**	0.002	< 0.005
AMW-13	3/18/15*	< 0.050	< 0.050	< 0.050	< 0.050	**1.2**	**22**	< 0.050	**0.78**	< 0.020	< 0.005
AMW-13	6/22/15*	< 0.25	< 0.25	< 0.25	< 0.25	**1.31**	**22.8**	< 0.25	**0.738**	< 0.25	< 0.002
AMW-14	3/6/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.884**	--	**0.0133**	< 0.005	--
AMW-14	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.366**	--	< 0.005	< 0.005	--
AMW-14	6/17/2003	< 0.005	< 0.005	< 0.005	--	**0.031**	**2**	--	**0.19**	< 0.005	--
AMW-14	1/19/2005	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.3**	--	< 0.5	--	--
AMW-14	8/28/2005	< 0.5	< 0.5	< 0.5	--	< 0.5	**3.5**	--	< 0.5	--	--
AMW-14	5/31/2006	< 0.005	< 0.005	< 0.005	--	**0.17**	**3**	--	**0.039**	--	--
AMW-14	4/3/2007	< 0.1	< 0.1	< 0.1	--	< 0.1	**10**	--	< 0.1	--	--
AMW-14	4/29/2008	< 0.005	< 0.005	< 0.005	--	**0.029**	**3.7**	--	**0.024**	--	--
AMW-14	12/9/2008	< 0.005	< 0.005	< 0.005	--	**0.0056**	**0.43**	--	**0.0063**	--	--
AMW-14	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.1**	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-14	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.33**	--	< 0.005	--	--
AMW-14	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.82**	--	< 0.005	--	--
AMW-14	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.26**	--	< 0.005	--	--
AMW-14	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.5**	--	< 0.005	--	--
AMW-14	10/11/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.18**	< 0.005	< 0.005	< 0.002	--
AMW-14	7/1/2013	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.1**	< 0.001	**0.0016**	< 0.001	--
AMW-14	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.094**	< 0.001	**0.0011**	< 0.001	--
AMW-14	6/19/2014	< 0.001	< 0.001	< 0.001	< 0.001	**0.023**	**0.091**	< 0.001	**0.025**	< 0.001	--
AMW-14	7/2/2014	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.19**	< 0.001	**0.0023**	< 0.001	--
AMW-14	12/17/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.15**	< 0.005	**0.011**	< 0.002	< 0.005
AMW-14	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.034**	**0.67**	< 0.005	**0.026**	< 0.002	< 0.005
AMW-14	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	**0.103**	**1.51**	< 0.001	**0.0779**	< 0.001	< 0.002
AMW-15	3/7/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.188**	--	< 0.005	< 0.005	--
AMW-15	8/2/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.136**	--	< 0.005	< 0.005	--
AMW-15	6/19/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.14**	--	< 0.005	< 0.005	--
AMW-15	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.75**	--	**0.092**	--	--
AMW-15	6/3/2004	< 0.05	< 0.05	< 0.05	--	< 0.05	**0.63**	--	< 0.05	--	--
AMW-15	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.72**	--	**0.0074**	--	--
AMW-15	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.84**	--	**0.01**	--	--
AMW-15	5/31/2006	< 0.005	< 0.005	< 0.005	--	**0.011**	**0.87**	--	**0.0099**	--	--
AMW-15	4/3/2007	< 0.05	< 0.05	< 0.05	--	< 0.05	**0.89**	--	< 0.05	--	--
AMW-15	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.38**	--	< 0.005	--	--
AMW-15	12/9/2008	< 0.005	< 0.005	< 0.005	--	**0.0061**	**0.66**	--	**0.008**	--	--
AMW-15	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**1.6**	--	**0.0094**	--	--
AMW-15	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.61**	--	< 0.005	--	--
AMW-15	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.51**	--	**0.0059**	--	--
AMW-15	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.46**	--	**0.0054**	--	--
AMW-15	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.47**	--	**0.0051**	--	--
AMW-15	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.25**	< 0.005	< 0.005	< 0.002	--
AMW-15	7/2/2013	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.19**	< 0.001	**0.0023**	< 0.001	--
AMW-15	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	**0.0012**	**0.37**	< 0.001	**0.0033**	< 0.001	--
AMW-15	6/24/2014	< 0.001	< 0.001	< 0.001	< 0.001	**0.004**	**0.24**	< 0.001	**0.0046**	< 0.001	--
AMW-15	12/29/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.01**	**0.22**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-15	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.01**	**0.22**	< 0.005	**0.0058**	< 0.002	< 0.005
AMW-15	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	**0.0063**	**0.411**	< 0.001	**0.0068**	< 0.001	**0.0031**
AMW-16	3/7/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-16	6/19/2003	**0.066**	< 0.005	< 0.005	--	< 0.005	**4.7**	--	**0.049**	< 0.005	--
AMW-16	1/19/2005	< 0.5	< 0.5	< 0.5	--	< 0.5	**3.9**	--	< 0.5	--	--
AMW-16	8/28/2005	**0.053**	< 0.005	< 0.005	--	**0.005**	**3.3**	--	**0.046**	--	--
AMW-16	5/31/2006	**0.051**	< 0.005	**0.008**	--	**0.009**	**4**	--	**0.048**	--	--
AMW-16	4/3/2007	< 0.1	< 0.1	< 0.1	--	< 0.1	**3.7**	--	< 0.1	--	--
AMW-16	4/29/2008	**0.028**	< 0.005	**0.013**	--	**0.026**	**6.7**	--	**0.04**	--	--
AMW-16	12/9/2008	**0.031**	**0.024**	**0.024**	--	**0.052**	**19**	--	**0.1**	--	--
AMW-16	7/28/2009	**0.033**	< 0.005	**0.016**	--	< 0.005	**16**	--	**0.083**	--	--
AMW-16	4/5/2010	**0.043**	< 0.005	**0.022**	--	**0.014**	**6.5**	--	**0.049**	--	--
AMW-16	11/29/2010	**0.023**	< 0.005	**0.0095**	--	**0.006**	**3.6**	--	**0.018**	--	--
AMW-16	5/27/2011	**0.035**	< 0.005	**0.014**	--	**0.0099**	**2.8**	--	**0.026**	--	--
AMW-16	11/14/2011	**0.027**	< 0.005	**0.0095**	--	< 0.005	**2.9**	--	**0.022**	--	--
AMW-16	10/10/2012	**0.028**	< 0.005	**0.018**	--	< 0.005	**1.9**	< 0.005	**0.02**	< 0.002	--
AMW-16	7/2/2013	**0.018**	< 0.01	< 0.01	< 0.01	< 0.01	**2.7**	< 0.01	**0.019**	< 0.01	--
AMW-16	12/4/2013	**0.0094**	< 0.001	**0.0038**	< 0.001	**0.0034**	**2.7**	< 0.001	**0.017**	< 0.001	--
AMW-16	6/24/2014	**0.0084**	< 0.001	**0.0039**	< 0.001	**0.004**	**2.2**	< 0.001	**0.013**	< 0.001	--
AMW-16	12/19/2014	**0.0065**	< 0.005	< 0.005	< 0.005	< 0.005	**2.2**	< 0.005	**0.013**	< 0.002	< 0.005
AMW-16	3/17/2015	**0.0086**	< 0.005	< 0.005	< 0.005	< 0.005	**2.6**	< 0.005	**0.015**	< 0.002	< 0.005
AMW-16	6/16/2015	**0.0048**	< 0.001	**0.0032**	< 0.001	**0.0032**	**1.31**	< 0.001	**0.0107**	< 0.001	< 0.002
AMW-17	3/7/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-17	6/17/2003	**0.026**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-17	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-17	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	12/9/2008	**0.04**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	7/28/2009	**0.027**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	4/5/2010	**0.039**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	11/29/2010	**0.1**	< 0.005	< 0.005	--	< 0.005	**0.038**	--	< 0.005	--	--
AMW-17	5/27/2011	**0.039**	< 0.005	< 0.005	--	< 0.005	**0.006**	--	< 0.005	--	--
AMW-17	11/14/2011	**0.028**	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-17	10/10/2012	**0.034**	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-17	6/21/2013	**0.01**	< 0.001	**0.0018**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-17	12/4/2013	**0.011**	< 0.001	< 0.001	< 0.001	< 0.001	**0.001**	< 0.001	< 0.001	< 0.001	--
AMW-17	6/17/2014	**0.0068**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-17	6/15/2015	**0.0113**	< 0.001	**0.0018**	< 0.001	< 0.001	**0.0083**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-18	4/24/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-18	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-18	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	12/9/2008	--	--	--	--	--	--	--	< 0.005	--	--
AMW-18	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-18	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-18	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-18	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-18	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.02**	< 0.001	< 0.001	< 0.001	--
AMW-18	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0025**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-19	4/24/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-19	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-19	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-19	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
AMW-19	6/21/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	12/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-19	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
AMW-20	4/24/2002	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-20	6/17/2003	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	< 0.005	--
AMW-20	1/6/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	6/3/2004	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	1/19/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	8/28/2005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	5/31/2006	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.01**	--	< 0.005	--	--
AMW-20	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AMW-20	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
AMW-20	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.13**	--	< 0.005	--	--
AMW-20	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.017**	--	< 0.005	--	--
AMW-20	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.038**	--	< 0.005	--	--
AMW-20	10/10/2012	--	--	--	--	--	**0.01**	--	< 0.005	--	--
AMW-20	6/20/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
AMW-20	12/5/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0068**	< 0.001	< 0.001	< 0.001	--
AMW-20	6/23/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0023**	< 0.001	< 0.001	< 0.001	--
AMW-20	12/18/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.013**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-20	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.014**	< 0.005	< 0.005	< 0.002	< 0.005
AMW-20	6/17/2015	< 0.001	< 0.001	< 0.001	< 0.001	**0.0019**	**0.0272**	< 0.001	< 0.001	< 0.001	< 0.002
AMW-21	6/25/2003	< 0.05	< 0.05	< 0.05	--	**0.064**	**7.1**	--	**0.11**	< 0.05	--
AMW-21	1/6/2004	< 0.5	< 0.5	< 0.5	--	< 0.5	**17**	--	< 0.5	--	--
AMW-21	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**19**	--	< 2.5	--	--
AMW-21	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**11**	--	< 2.5	--	--
AMW-21	8/28/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**11**	--	< 2.5	--	--
AMW-21	5/31/2006	**0.011**	< 0.005	**0.0066**	--	**0.26**	**26**	--	**0.14**	--	--
AMW-21	4/3/2007	< 0.5	< 0.5	< 0.5	--	< 0.5	**9.3**	--	< 0.5	--	--
AMW-21	4/29/2008	< 0.005	< 0.005	< 0.005	--	**0.21**	**11**	--	**0.083**	--	--
AMW-21	12/9/2008	< 0.005	< 0.005	**0.0069**	--	**0.86**	**36**	--	**0.47**	--	--
AMW-21	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**28**	--	< 0.5	--	--
AMW-21	4/5/2010	< 0.005	< 0.005	< 0.005	--	**0.43**	**21**	--	**0.35**	--	--
AMW-21	11/29/2010	< 2.5	< 2.5	< 2.5	--	< 2.5	**12**	--	< 2.5	--	--
AMW-21	5/27/2011	< 0.26	< 0.2	< 0.59	--	< 0.17	**12**	--	< 0.16	--	--
AMW-21	11/14/2011	< 0.051	< 0.04	< 0.12	--	--	**13**	--	--	--	--
AMW-21	10/11/2012	< 0.005	< 0.005	< 0.005	--	**0.2**	**7.5**	< 0.005	**0.16**	< 0.002	--
AMW-21	7/1/2013	< 0.05	< 0.05	< 0.05	< 0.05	**0.2**	**8.6**	< 0.05	**0.18**	< 0.05	--
AMW-21	12/10/2013	< 0.1	< 0.1	< 0.1	< 0.1	**0.22**	**86.001**	< 0.1	**0.18**	< 0.1	--
AMW-21	6/23/2014	< 0.01	< 0.01	< 0.01	< 0.01	**0.52**	**15**	< 0.01	**0.32**	< 0.01	--
AMW-21	12/19/2014	< 0.005	< 0.005	< 0.005	< 0.005	**0.54**	**20**	< 0.005	**0.39**	< 0.002	< 0.005
AMW-21	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.72**	**22**	< 0.25	**0.52**	< 0.1	< 0.005
AMW-21	6/18/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.808**	**22.1**	< 0.2	**0.504**	< 0.2	< 0.002
DMW-3	2/22/1995	**2.9**	**0.032**	**1.1**	--	< 0.01	**0.002**	--	< 0.01	--	--
DMW-3	3/8/1999	**1**	**0.028**	**0.62**	--	< 0.01	< 0.005	--	< 0.01	--	--
DMW-3	10/4/2000	**0.92**	**0.027**	**0.75**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	3/14/2001	**0.47**	**0.029**	**0.26**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	10/9/2001	**1.4**	**0.03**	**1.1**	--	< 0.005	**1.4**	--	< 0.005	--	--
DMW-3	3/5/2002	**0.53**	**0.026**	**0.64**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	11/12/2002	**0.57**	**0.025**	**0.6**	--	< 0.005	**0.0054**	--	< 0.005	--	--
DMW-3	6/17/2003	**0.36**	**0.032**	**0.37**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	1/6/2004	**0.68**	**0.026**	**0.79**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	6/3/2004	**0.77**	**0.017**	**0.59**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	1/19/2005	**0.33**	**0.017**	**0.63**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	8/28/2005	**0.42**	**0.018**	**0.39**	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-3	5/31/2006	**0.24**	**0.016**	**0.37**	--	**0.0079**	**0.0073**	--	< 0.005	--	--
DMW-3	4/3/2007	**0.16**	**0.014**	**0.23**	--	**0.021**	**0.011**	--	< 0.005	--	--
DMW-3	4/29/2008	**0.18**	**0.016**	**0.27**	--	**0.016**	**0.012**	--	< 0.005	--	--
DMW-3	12/9/2008	**0.19**	**0.012**	**0.5**	--	**0.01**	**0.012**	--	< 0.005	--	--
DMW-3	7/28/2009	**0.19**	**0.017**	**0.28**	--	**0.022**	**0.052**	--	**0.0096**	--	--
DMW-3	4/5/2010	**0.18**	**0.012**	**0.31**	--	**0.033**	**0.063**	--	**0.01**	--	--
DMW-3	11/29/2010	**0.13**	**0.006**	**0.38**	--	**0.012**	**0.17**	--	**0.0053**	--	--
DMW-3	5/27/2011	**0.21**	**0.012**	**0.35**	--	**0.027**	**0.082**	--	**0.0066**	--	--
DMW-3	11/14/2011	**0.11**	**0.0067**	**0.19**	--	**0.021**	**0.097**	--	**0.006**	--	--
DMW-3	10/11/2012	**0.21**	**0.014**	**0.29**	--	**0.071**	**0.27**	< 0.005	**0.023**	< 0.002	--
DMW-3	7/3/2013	**0.12**	**0.013**	**0.22**	< 0.01	**0.13**	**0.58**	< 0.01	**0.17**	< 0.01	--
DMW-3	12/5/2013	**0.057**	**0.0065**	**0.078**	< 0.001	**0.094**	**0.31**	**0.0014**	**0.025**	< 0.001	--
DMW-3	6/18/2014	**0.12**	**0.013**	**0.21**	< 0.001	**0.23**	**0.69**	**0.0013**	**0.058**	< 0.001	--
DMW-3	6/23/15*	**0.102**	**0.0098**	**0.182**	**0.00063 J**	**0.55**	**2.08**	**0.0048 J**	**0.225**	< 0.005	**0.108**
DMW-5	10/4/2000	**0.15**	**0.018**	**0.075**	--	**0.0086**	< 0.005	--	< 0.005	--	--
DMW-5	3/14/2001	**0.098**	**0.029**	**0.15**	--	**0.0091**	< 0.005	--	< 0.005	--	--
DMW-5	10/9/2001	**0.35**	**0.069**	**0.36**	--	**0.032**	< 0.005	--	< 0.005	--	--
DMW-5	3/5/2002	**0.13**	**0.039**	**0.19**	--	**0.022**	< 0.005	--	< 0.005	--	--
DMW-5	11/12/2002	**0.16**	**0.044**	**0.18**	--	**0.024**	< 0.005	--	**0.0092**	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DMW-5	6/17/2003	**0.085**	**0.031**	**0.13**	--	**0.017**	< 0.005	--	< 0.005	--	--
DMW-5	1/6/2004	**0.09**	**0.029**	**0.13**	--	**0.021**	**0.016**	--	< 0.005	--	--
DMW-5	6/3/2004	**0.13**	**0.023**	**0.12**	--	**0.016**	< 0.005	--	< 0.005	--	--
DMW-5	1/19/2005	**0.051**	**0.02**	**0.1**	--	**0.014**	**0.007**	--	< 0.005	--	--
DMW-5	8/28/2005	**0.049**	**0.016**	**0.089**	--	**0.011**	< 0.005	--	< 0.005	--	--
DMW-5	5/31/2006	**0.046**	**0.02**	**0.095**	--	**0.019**	**0.011**	--	< 0.005	--	--
DMW-5	4/3/2007	**0.037**	**0.023**	**0.13**	--	**0.036**	**0.035**	--	**0.012**	--	--
DMW-5	4/29/2008	**0.016**	**0.0086**	**0.036**	--	**0.17**	**0.21**	--	**0.084**	--	--
DMW-5	12/9/2008	**0.01**	**0.0084**	**0.051**	--	**0.19**	**0.24**	--	**0.075**	--	--
DMW-5	7/28/2009	**0.064**	**0.022**	**0.1**	--	**0.33**	**0.59**	--	**0.25**	--	--
DMW-5	4/5/2010	**0.038**	**0.015**	**0.072**	--	**0.26**	**0.82**	--	**0.32**	--	--
DMW-5	11/29/2010	**0.026**	**0.014**	**0.082**	--	**0.18**	**0.54**	--	**0.21**	--	--
DMW-5	5/27/2011	**0.028**	**0.019**	**0.078**	--	**0.13**	**0.15**	--	**0.083**	--	--
DMW-5	11/14/2011	**0.014**	**0.0097**	**0.044**	--	**0.07**	**0.15**	--	**0.065**	--	--
DMW-5	10/11/2012	**0.035**	**0.018**	**0.067**	--	**0.25**	**0.69**	**0.022**	**0.48**	< 0.002	--
DMW-5	7/2/2013	**0.02**	**0.014**	**0.062**	< 0.01	**0.19**	**0.42**	< 0.01	**0.26**	< 0.01	--
DMW-5	12/5/2013	**0.012**	**0.008**	**0.028**	< 0.001	**0.1**	**0.35**	**0.007**	**0.22**	< 0.001	--
DMW-5	6/18/2014	**0.016**	**0.01**	**0.044**	< 0.001	**0.22**	**0.6**	**0.0086**	**0.49**	< 0.001	--
DMW-5	6/23/15*	**0.0165**	**0.0052**	**0.0286**	< 0.005	**0.199**	**0.558**	**0.0086**	**0.482**	< 0.005	**0.0053**
DMW-12	3/5/2002	**0.053**	**0.0084**	**0.0085**	--	**0.03**	**2**	--	**0.012**	--	--
DMW-12	11/12/2002	**0.14**	**0.016**	**0.029**	--	**0.076**	**11**	--	**0.046**	--	--
DMW-12	6/17/2003	< 0.5	< 0.5	< 0.5	--	< 0.5	**14**	--	--	--	--
DMW-12	1/6/2004	**0.18**	**0.018**	**0.04**	--	**0.08**	**250**	--	**0.077**	--	--
DMW-12	6/3/2004	< 2.5	< 2.5	< 2.5	--	< 2.5	**36**	--	< 2.5	--	--
DMW-12	1/19/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**12**	--	< 2.5	--	--
DMW-12	8/28/2005	< 2.5	< 2.5	< 2.5	--	< 2.5	**4.8**	--	< 2.5	--	--
DMW-12	5/31/2006	**0.043**	**0.0054**	**0.019**	--	**0.034**	**24**	--	**0.041**	--	--
DMW-12	4/3/2007	< 0.1	< 0.1	< 0.1	--	< 0.1	**39**	--	< 0.1	--	--
DMW-12	4/29/2008	**0.021**	**0.011**	< 0.005	--	**0.02**	**12**	--	**0.027**	--	--
DMW-12	12/9/2008	**0.023**	< 0.005	**0.02**	--	**0.039**	**41**	--	**0.27**	--	--
DMW-12	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	**32**	--	**0.61**	--	--
DMW-12	4/5/2010	< 0.047	< 0.047	< 0.047	--	< 0.18	**31**	--	< 0.047	--	--
DMW-12	11/29/2010	< 2.5	< 2.5	< 2.5	--	< 2.5	**39**	--	< 2.5	--	--
DMW-12	5/27/2011	< 0.26	< 0.2	< 0.59	--	< 0.17	**36**	--	< 0.16	--	--
DMW-12	11/14/2011	< 0.51	< 0.4	< 1.2	--	< 0.34	**40**	--	--	--	--
DMW-12	10/11/2012	**0.053**	**0.0056**	**0.047**	--	**0.23**	**43**	< 0.005	**0.77**	< 0.002	--
DMW-12	7/1/2013	< 0.1	< 0.1	< 0.1	< 0.1	**0.18**	**34**	< 0.1	**0.56**	< 0.1	--
DMW-12	12/11/2013	< 0.1	< 0.1	< 0.1	< 0.1	**0.14**	**40**	< 0.1	**0.5**	< 0.1	--
DMW-12	6/19/2014	**0.018**	< 0.01	**0.015**	< 0.01	**0.16**	**33**	< 0.01	**0.45**	< 0.01	--
DMW-12	12/19/2014	**0.019**	< 0.005	**0.02**	< 0.005	**0.17**	**50**	< 0.005	**0.58**	< 0.002	< 0.005
DMW-12	3/17/15*	< 0.25	< 0.25	< 0.25	< 0.25	**0.19 J**	**48**	< 0.25	**0.54**	< 0.1	< 0.005
DMW-12	6/23/15*	< 0.5	< 0.5	< 0.5	< 0.5	**0.122 J**	**31**	< 0.5	**0.375 J**	< 0.5	**0.0038**
DMW-13	4/3/2007	**0.058**	< 0.005	**0.012**	--	< 0.005	**1.3**	--	**0.022**	--	--
DMW-13	4/29/2008	**0.065**	< 0.005	**0.023**	--	**0.018**	**5.4**	--	**0.045**	--	--
DMW-13	12/9/2008	**0.04**	< 0.005	**0.021**	--	**0.039**	**13**	--	**0.072**	--	--
DMW-13	7/28/2009	**0.042**	< 0.005	< 0.005	--	**0.018**	**5.8**	--	**0.044**	--	--
DMW-13	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	**0.027**	--	< 0.005	--	--
DMW-13	11/29/2010	**0.023**	< 0.005	**0.007**	--	< 0.005	**1.5**	--	**0.014**	--	--
DMW-13	5/27/2011	**0.033**	< 0.005	**0.0096**	--	< 0.005	**1.3**	--	**0.012**	--	--
DMW-13	11/14/2011	**0.02**	< 0.005	**0.0082**	--	< 0.005	**1.1**	--	**0.011**	--	--
DMW-13	10/10/2012	**0.025**	< 0.005	**0.012**	--	< 0.005	**0.63**	< 0.005	**0.0088**	< 0.002	--
DMW-13	7/2/2013	**0.017**	< 0.001	**0.008**	< 0.001	**0.0019**	**0.75**	< 0.001	**0.0071**	< 0.001	--
DMW-13	12/11/2013	**0.012**	< 0.001	**0.0048**	< 0.001	**0.0023**	**0.45**	< 0.001	**0.0069**	< 0.001	--
DMW-13	6/18/2014	**0.011**	< 0.001	**0.0054**	< 0.001	**0.0016**	**0.7**	< 0.001	**0.0074**	< 0.001	--
DMW-13	6/17/2015	**0.0089**	< 0.001	**0.0053**	< 0.001	**0.0019**	**0.701**	< 0.001	**0.0085**	< 0.001	< 0.002
DMW-14D	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-14D	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DMW-14D	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-14D	6/19/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	12/6/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-14D	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
DMW-15	4/3/2007	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	4/29/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	12/9/2008	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	7/28/2009	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	4/5/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	11/29/2010	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	5/27/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	11/14/2011	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.005	--	--
DMW-15	10/9/2012	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	--
DMW-15	6/19/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-15	12/6/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0032**	< 0.001	< 0.001	< 0.001	--
DMW-15	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
DMW-15	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0016**	< 0.001	< 0.001	< 0.001	< 0.002
ARW-1	7/8/2003	**0.026**	< 0.005	**0.005**	--	**0.019**	**0.0025**	--	**0.013**	< 0.005	--
ARW-1	10/11/2012	**0.013**	< 0.005	**0.011**	--	**0.16**	**24**	< 0.005	**0.44**	< 0.002	--
ARW-1	7/1/2013	< 0.025	< 0.025	< 0.025	< 0.025	**0.11**	**8.2**	< 0.025	**0.21**	< 0.025	--
ARW-1	12/10/2013	**0.018**	< 0.01	**0.012**	< 0.01	**0.12**	**23**	< 0.01	**0.41**	< 0.01	--
ARW-1	6/14/2014	**0.017**	< 0.01	**0.012**	< 0.01	**0.13**	**21**	< 0.01	**0.31**	< 0.01	--
ARW-1	12/29/2014	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**41**	< 0.5	< 0.5	< 0.2	< 0.05
ARW-1	3/18/15*	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**42**	< 0.25	**0.56**	< 0.1	< 0.005
ARW-1	6/24/15*	< 0.2	< 0.2	< 0.2	< 0.2	**0.205**	**38.2**	< 0.2	**0.434**	< 0.2	**0.0026**
ARW-2	7/8/2003	< 5	< 5	< 5	--	< 5	**23**	--	< 5	< 5	--
ARW-2	10/11/2012	**0.01**	**0.011**	**0.016**	--	**1.8**	**11**	**0.0057**	**0.65**	< 0.002	--
ARW-2	7/2/2013	**0.054**	< 0.05	**0.066**	< 0.05	**0.49**	**6.5**	< 0.05	**0.24**	< 0.05	--
ARW-2	12/9/2013	**0.0028**	< 0.001	**0.0029**	< 0.001	**0.065**	**2.1**	< 0.001	**0.042**	< 0.001	--
ARW-2	6/18/2014	**0.026**	**0.0028**	**0.024**	< 0.001	**0.089**	**2.1**	**0.0043**	**0.054**	< 0.001	--
ARW-2	12/18/2014	**0.019**	< 0.005	**0.018**	< 0.005	**0.073**	**1**	< 0.005	**0.044**	< 0.002	**< 0.005**
ARW-2	3/18/2015	**0.03**	< 0.005	**0.017**	< 0.005	**0.13**	**1.6**	< 0.005	**0.049**	< 0.002	**< 0.005**
ARW-2	6/23/15*	**0.0311**	< 0.01	**0.0375**	< 0.01	**0.121**	**1.3**	**0.0062 J**	**0.0508**	< 0.01	**0.0047**
ARW-3	10/11/2012	< 0.005	< 0.005	< 0.005	--	**0.069**	**4**	< 0.005	**0.064**	< 0.002	--
ARW-3	7/1/2013	< 0.05	< 0.05	< 0.05	< 0.05	**0.15**	**7.3**	< 0.05	**0.12**	< 0.05	--
ARW-3	12/10/2013	**0.0011**	< 0.001	< 0.001	< 0.001	**0.12**	**5.6**	**0.0011**	**0.1**	< 0.001	--
ARW-3	6/23/2014	< 0.01	< 0.01	< 0.01	< 0.01	**0.33**	**9.5**	< 0.01	**0.21**	< 0.01	--
ARW-3	12/19/2014	< 0.005	< 0.005	< 0.005	< 0.005	**0.16**	**7.2**	< 0.005	**0.16**	< 0.002	< 0.005
ARW-3	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.074**	**3**	< 0.005	**0.055**	< 0.002	< 0.005
ARW-3	6/18/15*	< 0.025	< 0.025	< 0.025	< 0.025	**0.0999**	**2.81**	< 0.025	**0.0637**	< 0.025	< 0.002
ARW-4	7/21/2003	**0.072**	**0.025**	**0.064**	--	**0.33**	**48**	--	**0.25**	< 0.005	--
ARW-4	10/11/2012	**0.0077**	< 0.005	< 0.005	--	**2.2**	**56**	**0.013**	**1.6**	**0.0059**	--
ARW-4	7/1/2013	< 0.25	< 0.25	< 0.25	< 0.25	**2.5**	**45**	< 0.25	**1.4**	< 0.25	--
ARW-4	12/11/2013	< 0.1	< 0.1	< 0.1	< 0.1	**3**	**42**	< 0.1	**1.7**	< 0.1	--
ARW-4	6/24/15*	< 0.4	< 0.4	< 0.4	< 0.4	**2.59**	**22.6**	< 0.4	**0.86**	< 0.4	**0.002**
OBG-W3	12/11/2013	**0.01**	< 0.001	**0.0025**	< 0.001	**0.0027**	**0.661**	< 0.001	**0.0017**	< 0.001	--
OBG-W3	6/17/2014	**0.007**	< 0.001	**0.0017**	< 0.001	**0.0026**	**0.038**	< 0.001	**0.0015**	< 0.001	--
OBG-W3	6/17/2015	**0.0068**	< 0.001	**0.0022**	< 0.001	**0.0021**	**0.0424**	< 0.001	**0.0013**	< 0.001	< 0.002
OBG-W4	12/5/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W4	6/17/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W4	6/17/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
OBG-W5	12/6/2013	**0.0027**	**0.0027**	**0.0013**	< 0.001	**0.13**	**6.3**	**0.0019**	**0.12**	< 0.001	--
OBG-W5	6/24/2014	< 0.01	< 0.01	< 0.01	< 0.01	**0.16**	**6.5**	< 0.01	**0.099**	< 0.01	--
OBG-W5	12/29/2014	< 0.05	< 0.05	< 0.05	< 0.05	**0.22**	**7.5**	< 0.05	**0.13**	< 0.02	< 0.005
OBG-W5	3/17/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	**8.7**	< 0.005	**0.13**	< 0.002	< 0.005
OBG-W5	6/15/2015	**0.0019**	**0.0016**	**0.0014**	< 0.001	**0.193**	**4.79**	< 0.001	**0.122**	< 0.001	< 0.002

TABLE D1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	1,4-dioxane
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
OBG-W8	1/24/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W8	6/18/2014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	--
OBG-W8	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0023	< 0.001	< 0.001	< 0.001	< 0.002
MW-23	1/15/2015	**0.034**	< 0.005	**0.04**	< 0.005	**0.22**	**0.54**	< 0.005	**0.34**	< 0.002	**0.068**
MW-23	4/15/2015	< 0.005	< 0.005	< 0.005	< 0.005	**0.0091**	**0.033**	< 0.005	**0.02**	< 0.002	< 0.002
MW-23	6/22/2015	< 0.001	< 0.001	< 0.001	< 0.001	**0.0015**	**0.0086**	< 0.001	**0.0033**	< 0.001	< 0.002

Notes
mg/L - milligrams per liter
< - less than reporting limit
Bold - Concentration above the laboratory reporting limit
-- no data

TABLE D2: HISTORICAL SURFACE WATER DATA

Constituents (mg/L)		cis-1,2-DCE	PCE	TCE	Vinyl Chloride
ISWQS (mg/L)		NA	0.0033	0.03	0.0024
Sample Location	**Date**				
ASW-1-UPSTREAM	10/5/12	< 0.005	< 0.005	< 0.005	< 0.002
	7/12/13	NA	< 0.001	< 0.001	NA
	12/11/13	**0.0016**	< 0.001	< 0.001	<0.001
	6/26/14	**0.0016**	< 0.001	< 0.001	< 0.001
	12/18/14	< 0.005	< 0.005	< 0.005	< 0.002
	3/16/15	< 0.005	< 0.005	< 0.005	< 0.002
	6/22/15	0.45 J	< 0.001	< 0.001	< 0.001
ASW-1	10/5/12	< 0.005	< 0.005	< 0.005	< 0.002
	7/12/13	NA	**0.052**	0.0035	NA
	12/11/13	**0.015**	**0.09**	0.007	0.0013
	6/26/14	**0.033**	**0.16**	0.014	**0.0039**
	12/18/14	**0.066**	**0.41**	**0.032**	**0.006**
	3/16/15	**0.016**	**0.23**	0.013	< 0.002
	6/22/15*	**0.0836**	**0.591**	**0.0412**	< 0.010
ASW-2	10/5/12	**0.027**	**0.15**	0.011	0.0023
	7/12/13	NA	**0.03**	0.003	NA
	12/11/13	0.005	**0.023**	0.0024	<0.001
	6/26/14	**0.004**	**0.0078**	0.0012	< 0.001
	12/18/14	< 0.005	**0.026**	< 0.005	< 0.005
	3/16/15	< 0.005	**0.032**	< 0.005	< 0.002
	6/22/15	**0.0029**	**0.0074**	0.00084 J	< 0.001
ASW-BYPASS	10/5/12	< 0.005	< 0.005	< 0.005	< 0.002
	7/12/13	NA	**0.0049**	< 0.001	NA
	12/11/13	<0.001	0.0024	< 0.001	<0.001
	6/26/14	< 0.001	< 0.001	< 0.001	<0.001
	6/22/15	< 0.001	< 0.001	< 0.001	< 0.001

Notes:

Prepared by: KAH 8/27/2015
Checked by: RLA 8/27/2015

ISWQS - GA EPD Instream Water Quality Standards (391-3-6)
mg/L - milligrams per liter
NA - not available
Bold - concentration greater than ISWQS
* - elevated detection limits

APPENDIX E

TECHNICAL MEMORANDUM: PLUME ANALYTICS EVALUATION INCLUDING A RICKER METHOD® PLUME STABILITY ANALYSIS

TECHNICAL MEMORANDUM

PLUME ANALYTICS EVALUATION INCLUDING A RICKER METHOD® PLUME STABILITY ANALYSIS

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AUGUST 2015

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1.0 INTRODUCTION AND PURPOSE

EarthCon Consultants, Inc. (EarthCon) prepared this technical memorandum for Apollo Technologies, Inc. (Apollo) to document the results of a Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis conducted for various groundwater constituent plumes present at the AMC International, Inc. (AMC) facility in Dalton, Georgia (site). EarthCon performed the analysis as an addendum to the August 2015 Fourth VIRP Progress Report (EarthCon, 2015b). Background information on the well installation dates and groundwater recovery system shutdown are discussed in the Third VIRP Progress Report (EarthCon, 2015a).

Understanding the characteristics of a constituent plume, including plume stability, is an important step in the remedial planning process for a site. For example, an increasing trend in plume contaminant concentration, spatial distribution, and mass may indicate plume migration toward downgradient human or environmental receptors whereas a stable or decreasing plume trend may be an indication that the plume is not migrating downgradient toward potential receptors. A decreasing plume trend may also be an indication that an active remediation system(s) or natural attenuation processes are effective in controlling the plume. Evaluating plume behavior may help ascertain the need for and the type and scale of current and future remedial efforts.

The size of a contaminant plume is influenced by a variety of physical, chemical, and biological processes. Groundwater contaminant plumes are typically affected by one or more of these processes, as well as by other hydrologic and geologic features (streams, clay layers, etc.). With all else being equal, when a groundwater plume has reached a point of hydrodynamic equilibrium (i.e., steady state), the mass loading to the plume from a source is equal to the rate of the mass lost from the plume by physical, chemical, biological, or in some cases anthropogenic processes (e.g., via active remediation).

EarthCon performed this plume analytics and plume stability analysis to help provide Apollo with an understanding of the stability of the various site constituent plumes in terms of area, average concentration, and mass indicator for the constituents, as well as evaluate the overall molar characteristics of the groundwater plume.

2.0 PLUME ANALYTICS METHODOLOGY

EarthCon performed this plume analytics evaluation using historical groundwater analytical data. The plume analytics evaluation included the following elements:

- Ricker Method® Plume Stability Analysis;
- Total molar trend and molar ratio analysis for chloroethenes/ethanes;
- Molar ratio (pie chart) analysis (temporal and spatial) for chloroethenes/ethanes; and
- Total molar plume difference over time evaluation.

A brief description of each of these elements is provided below:

Ricker Method® Plume Stability Analysis

EarthCon performed this plume stability analysis using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. Note that the term "mass indicator" does not necessarily represent the entire mass in the subsurface, but rather an expression of it based on a fixed assumption of aquifer thickness and porosity. Calculation of the actual plume mass is often a very complicated exercise and typically more data/inputs are needed than are available from typical delineation and/or remediation well information. Because the plume mass value is not necessarily an indication of actual contaminant mass, the term "mass indicator" is used to describe this plume characteristic.

To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or is possibly expanding.

Total molar trend, molar ratio analysis, and molar pie chart analysis

When assessing CVOC data, it is useful to evaluate the data on a molar basis. This is especially important when evaluating the degradation of parent-daughter sequences, such as the chlorinated ethenes and ethanes observed at the Site. For example, during reductive dechlorination the relative molar fraction of parent compounds progressively decreases through time and the fraction of daughter compounds progressively increases. Further, when a parent compound degrades to a daughter compound, the mass based concentration of total CVOCs decreases because one chlorine atom is released in each sequential reaction. However, the number of moles[1] does not decrease since one molecule of a parent compound (e.g., tetrachloroethene, or PCE) produces one molecule of its respective daughter compound (e.g., trichloroethene, or TCE) and so on. The molar concentration only decreases once the parent constituent has been completely mineralized to ultimate benign end products (i.e., carbon dioxide, water, and chloride ion). Therefore, the total plume decrease (or increase) for chlorinated ethenes/ethanes can be estimated by calculating the molar concentration (in nmol/L) of each species and then adding all the concentrations together for a total molar concentration of the plume. In addition to demonstrating complete mineralization of CVOC compounds, it is especially important for evaluating and detecting potential new, separate, and/or episodic release sources within a plume.

[1] One mole of a substance is 6.02×10^{23} molecules. The mass of one mole is that number times the molecular weight of the substance.

EarthCon prepared a series of figures that provide a graphical depiction of molar ratios and molar trends. These figures assist in the overall interpretation and understanding of current and historical site conditions related to patterns and/or changes in molar characteristics. Typically the molar analysis of chlorinated ethenes and ethanes is broken out separately to evaluate true parent-daughter sequences. However, because each plume area at this site is dominated by a specific parent-daughter sequence, a decision was made to look at total chlorinated volatile organic compounds (CVOCs) (i.e. combined ethenes/ethanes) on a molar basis in order to evaluate molar ratio patterns in each plume area. In the case of the Dobbs Area plume, we see a strong 1,1,1-trichloroethane–1,1-dichloroethene–vinyl chloride sequence. In the Fire Release Area plume we see a strong tetrachloroethene–trichloroethene–cis-1,2-dichloroethene–vinyl chloride sequence. Because of the predominance of these primary sequences, we deemed it acceptable to include the molar concentration of non-sequence constituents that were found at relatively low molar concentrations for the purposes of this analysis.

Plume difference over time evaluation

In addition to evaluating temporal trends in plume characteristics (e.g., area, concentration, and mass indicator), it is also useful to evaluate spatial differences in constituent concentrations over time as well. In order to do this, spatial difference maps (or “plume difference maps”) were prepared that illustrate where concentrations increase or decrease between two sample events. Each spatial plume difference map depicts the magnitude and locations where the dissolved constituent plume differed between the two sampling dates. The plume differences are denoted by areas of red shading (areas of concentration increase) and blue shading (areas of concentration decrease). The relative magnitude of plume concentration change is indicated by gradational shading, with darker shading indicating greater change in magnitude in accordance with the provided scale.

The plume analytics evaluation was conducted for the following CVOC constituents:

- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- Cis-1,2-Dichloroethene (cis-1,2-DCE)
- Vinyl Chloride (VC)
- 1,1,1-Trichloroethane (1,1,1-TCA)
- 1,1-Dichloroethene (1,1-DCE)
- Total CVOCs

In addition to the data collected by EarthCon in December 2014, March 2015, and June 2015, EarthCon used data provided by others. As such, EarthCon did not validate any of the data received from others and makes no warranties or guarantees as to the accuracy or completeness of information provided to EarthCon by others.

2.1 Data Assessment and Input File Development

Historical groundwater analytical data is available for the site from 1995 through June 2015. However, the analytical data sets prior to 2005 are incomplete. Therefore, plume analytics were performed using historical groundwater analytical data from 2005 through June 2015. This data set provides 13 sampling events over a 10-year period. The data used for plume analytics for PCE; TCE; cis-1,2-DCE; VC; 1,1,1,-TCA; and 1,1-DCE are summarized in Tables 1 through 6, respectively.

Historically, the monitoring frequency at the Site varied but groundwater was generally sampled on a semi-annual basis. In instances when wells were not sampled or high detection limits were reported, data gaps were filled by either interpolating between those events with available data or by extrapolating prior or subsequent monitoring events with available data. Other scientific and/or statistical assumptions and adjustments to the data, consistent with the Ricker Method®, were necessary in order to complete the analysis. These adjustments are identified in the Ricker Method® input data set summarized in Tables 1 through 6. The assumptions and adjustments used in the analysis include the following:

- Monitoring wells in which the majority of the data were non-detect for a particular constituent were assumed always to be non-detect for that constituent, even during sampling events when no analytical data were reported. Instances where these non-detect values were assigned are indicated by purple shading in Tables 1 through 6. In most cases, non-detect concentrations were evaluated with an assigned concentration value of one-half or one-tenth of the stated detection limit. One-half the non-detect value was used when wells experienced some detections and one-tenth was used when a well was historically non-detect. In cases where non-detect concentrations had elevated detection limits, professional judgment was used. For example, in some cases the actual elevated detection limit value was used. In others, a fraction of the value was used. In some cases it is assigned the standard detection limit. The values may also have been interpolated between the previous and subsequent monitoring events. In every case, however, the assigned value was based on actual results (detectable value or non-detect at a lower detection limit) from other sampling events for that same well.

- Values for some of the elevated reporting limits were assigned by interpolating between those events with actual data from the previous and subsequent monitoring events. Instances where these values were assigned are indicated by orange shading in Tables 1 through 6. Some of the interpolated values for early 2005 were based on 2004 analytical data.

- Cells not colored in the input data set in Tables 1 through 6 indicate that no assignments or adjustments were made for those respective wells and dates.

- Due to Site conditions, AMW-9, DMW-10, and DMW-8/DRW-2 could not be sampled during the June 2015 event. June 2015 values were assigned by extrapolation from the most recent sampling event (June 2014). Instances where these values were assigned are indicated by green shading in Tables 1 through 6.

- To better define the plume boundaries, logarithmic interpolation was conducted between perimeter monitoring wells.

- For the molar analysis, CVOC concentrations that were below the delineation criteria were input as zero concentration.

2.2 Groundwater Plume Map Development

Two separate reported releases of VOCs to the environment occurred at the site at different periods in time: A release of 1,1,1-TCA to groundwater occurred in the Dobbs Area in 1995 and a release of PCE occurred in the Fire Release Area in 2001. The history of these releases is described in previous reports prepared by others. Using procedures discussed in Section 2.1, constituent concentration isopleth maps, or plume maps, were developed for the each plume area for 2005 through June 2015.

Groundwater elevation data suggests there is a groundwater ridge oriented along a northeast-southwest trending axis roughly bisecting the site building footprint. This is shown on the potentiometric map provided as Figure 4 in the August 2015 Fourth Progress Report (EarthCon, 2015b). Our interpretation is that this ridge is acting as a groundwater divide and the two identified plumes fall on either side of this divide. Additionally, each plume has definitive chemical characteristics which support the premise of two separate and distinct groundwater plumes identified as follows:

- the “Dobbs Area” plume located northwest of the building, and
- the “Fire Release Area” plume located southeast of the building.

The plume maps were contoured to each constituent’s respective delineation criterion. The delineation criteria are presented in Table 6 of the Fourth Progress Report (EarthCon, 2015b). The area of the constituent-specific plume for each year was calculated using the mathematical features of the contouring software used to develop the isopleth maps (i.e., Surfer® by Golden Software, Inc.). The kriging gridding method was used with the default linear variogram to develop the isopleth maps. Surfer® was also used for the computation of the average concentration of each plume, as described in Ricker (2008). The plume area and average concentrations were then used to calculate the plume mass indicator for each year. In order to calculate the plume mass indicator, site specific values for porosity and aquifer thickness were used. A porosity of 29% was assumed based on the porosity used previously when calculating groundwater velocity presented in the agency-approved April 2013 VIRP (AMEC, 2013). The

aquifer thickness value was based on the average aquifer thickness presented on Site cross sections (EarthCon, 2015a).

The mass indicator is not necessarily an indication of the actual total mass of the contaminant in groundwater; rather it is a way to combine the variables of area and concentration into one meaningful indicator variable. Since the main purpose of the plume stability analysis is to observe relative changes in this value between sampling events, applying constants (i.e., porosity and aquifer thickness) to the mass calculation has no bearing on the usefulness of the output of the analysis (i.e., relative rate of change in plume mass).

Concentration isopleth maps for each of the constituents and total CVOCs are included in Appendices A through G. As discussed above, plume stability characteristics were calculated for each of the sampling events included in the analysis. The plume stability characteristics of area, average concentration, and mass indicator are also shown on the respective isopleth maps. It is important to note that the developed isopleths maps are not intended to be used for delineation purposes. Rather the isopleths maps developed using the Ricker Method® are intended to facilitate the statistical evaluation of relative changes to area, concentration, and mass indicator over time.

2.3 Statistical Methodology

To evaluate the stability of each constituent plume, temporal trends of the characteristics for each plume were evaluated statistically. The area, average concentration, and mass indicator for each year were plotted to observe changes in each parameter from event to event. The results of the plume stability analyses for each constituent are discussed further in Section 3.0.

The temporal trends in the plume characteristic values were statistically evaluated using both linear regression techniques and the Mann-Kendall Test. Linear regression analyses were conducted using the regression analysis utility in Microsoft Excel. The Mann-Kendall Tests were conducted also using Microsoft Excel spreadsheets based on procedures described in Gilbert (1987). Linear regression is a parametric statistical procedure that is typically used for analyzing trends in data over time. The Mann-Kendall Test is a non-parametric statistical test; therefore, it is not dependent upon the magnitude of the data, assumptions of distribution, or regularly spaced sampling events.

The Mann-Kendall Test is used to assess whether a data set exhibits an increasing or decreasing trend, at a predetermined level of significance, α. The test requires the calculation of a statistic “S”, which is the difference between the number of paired differences that are positive, minus the number that are negative. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the data. The null hypothesis, H_0, for the Mann-Kendall Test

is that there is no temporal trend in the data. The alternative hypothesis, H_A, is that of either an upward trend or a downward trend.

If the null hypothesis is not rejected (i.e., no trend could be established statistically), it is expected that the plume is stable. However, a stable plume may not in fact be evident because the statistical test does not take into account magnitude or variation in the data. For example, a data set can exhibit a large amount of scatter, yet the test could conclude that the plume is stable. A methodology to counter the problem of scatter in the data involves comparing the calculated S statistic, a calculated confidence factor (1-α), and the coefficient of variation for the data set. The S statistic indicates the direction of the trend, the confidence factor shows how strong the trend is, and the coefficient of variation indicates the degree of scatter in the data.

When evaluating trends using linear regression, trends may be obscured by scatter in the data. This condition is typically indicated by a low coefficient of determination (R^2) value. Even with low R^2 values (i.e., high degree of scatter), a confidence interval can still be constructed on the slope of the regression line. As described in AFCEE (2006), assuming the sign (i.e., positive or negative) of the estimated log-slope is correct, a level of confidence that the slope is not zero can be easily determined. The overall trend in the data may thus still be determined, where low levels of confidence correspond to stable or indeterminate trends and higher levels of confidence (e.g., > 90%) indicate the stronger likelihood of a trend.

For the plume stability analysis, significant trends are established when the calculated confidence factor is greater than 90%. If the confidence factor is less than 90%, the plume is considered stable if the coefficient of variation is small (i.e., <1). If the coefficient of variation is high (i.e., >1), then a conclusion of indeterminate trend is made.

In many cases, the statistical results for both linear regression and Mann-Kendall Test agree with each other. In the case where two different results are obtained (e.g., one stable trend and one decreasing trend), both are used to describe the trend.

Trend analysis results for the respective constituent plume area, average concentration, and mass indicator are discussed for each constituent and total CVOCs below. Statistical analysis summaries for each constituent and total CVOCs are provided in Figures 1 through 7.

3.0 PLUME ANALYTICS RESULTS

This section of the technical memorandum provides a summary of results of the individual plume analytics based on the data set described above. Our interpretations and opinions of the data outputs are subject to change should additional information become available. A number of figures were prepared as part of the analyses of the CVOC constituents, as follows:

- Figures 1 through 7: Plume stability analysis trend results of plume area, average concentration, and mass indicator are presented for both the Fire Release Area and the Dobbs Area using data from 2005 through June 2015 for: PCE; TCE; cis-1,2-DCE; VC, 1,1,1-TCA, 1,1-DCE, and total CVOCs, respectively.

- Figure 8: Plume trend analysis results on a molar basis of plume area, average concentration, and mass indicator and plume difference map for the Fire Release Area using data from 2005 through June 2015 for total CVOCs. The spatial difference figures are solely based on the difference between the 2005 and June 2015 monitoring event results and depict magnitude and locations where the dissolved contaminant plume differed between the two selected dates. The plume differences are denoted by areas of blue shading (areas of concentration decrease) and red shading (areas of concentration increase). The relative magnitude of plume concentration change is indicated by gradational shading, with darker shading indicating greater change in magnitude in accordance with the provided scale.

- Figure 9: Fire Release Area total CVOC molar ratio (pie chart) evaluation for the June 2015 sampling event.

- Figure 10: Plume trend analysis results on a molar basis of plume area, average concentration, and mass indicator and plume difference map for the Dobbs Area using data from 2005 through June 2015 for total CVOCs.

- Figure 11: Dobbs Area total CVOC molar ratio (pie chart) evaluation for the June 2015 sampling event.

- Figure 12: Dobbs Area well by well molar trend analysis using data from 2005 through June 2015.

- Appendices A through G: Plume series maps for: PCE; TCE; cis-1,2-DCE; VC; 1,1,1-TCA; 1,1-DCE; and total VOCs, respectively.

FIRE RELEASE AREA

Ricker Method® Plume Stability Analysis (Figures 1 – 7 and Appendices A – G)

A Ricker Method® Plume Stability Analysis was conducted for the Fire Release Area plume using groundwater data for each of the six CVOCs and total CVOCs for years 2005 through June 2015. The Ricker Method® Plume Stability Analysis for each of the constituents evaluated resulted in the following trends:

Constituent	Area	Average Concentration	Mass Indicator
*PCE	Increasing	Decreasing	Decreasing
*TCE	Stable/Increasing	Increasing	Increasing
*cis-1,2-DCE	Increasing	Increasing	Increasing
*VC	Increasing	Stable	Increasing
1,1,1-TCA	Decreasing	Decreasing	Decreasing
1,1-DCE	Decreasing	Stable	Decreasing
Total CVOCs	Increasing	Decreasing	Decreasing

*Primary parent – daughter sequence

- PCE is the predominant constituent in the Fire Release Area as evidenced by a mass indicator orders of magnitude higher than TCE, cis,1-2-DCE, and VC. For example, as shown on Figures 1, 2, 3, and 4, the mass of PCE in June 2015 was 1,248 lbs; the mass of TCE was 26.03 lbs; the mass of cis,1-2-DCE was 44.13 lbs; and the mass of VC was 0.09 lbs.

- The decreasing PCE average concentration and mass indicator followed by increasing average concentration and mass indicator for TCE and cis-1,2-DCE is what would be expected for a plume undergoing some degree of reductive dechlorination. That is, the breakdown of the parent PCE is generating the TCE and cis-1,2-DCE daughter compounds.

- Although the area of the total CVOC plume is increasing, it is only slightly increasing from 4.92 acres to 6.05 acres over 10 years. However, the average concentration and mass indicator are decreasing. The increase in area was initially considered to be

possibly due to the expanded well network installed after 2005 (DMW-13, DMW-14D, DMW-15, OBG-W3, OBG-W4, OBG-W5, OBG-W6, and MW-23). To test this, plume area trends were evaluated using both the existing well set in 2005 and the expanded well network. The results indicated that the expanded well network trend mimics the original well network trend. Therefore, it was verified that that expanded well network and the original well network yielded similar results.

- Even though the total CVOC area slightly increased as discussed above, the mass indicator and average concentration decreased. The decrease in plume mass indicator and average concentration may be the result of reductive dechlorination or other biological processes, abiotic processes, physical processes (i.e. advection, dispersion, dilution, diffusion, volatilization, sorption), the pumping wells physically removing contaminants from the plume, or some combination of all of these.

- 1,1,1-TCA is not a significant constituent in the Fire Release Area as evidenced by the lack of calculated area, average concentration, and mass indicator since 2007.

Total CVOCs - Plume Difference Map (Figure 8)

This figure provides plume trend analysis results on a molar basis of plume area, average concentration, and mass indicator, as well as the plume difference map. The spatial difference figure is solely based on the difference between the 2005 and June 2015 monitoring event results and depict magnitude and locations where the dissolved contaminant plume differed between the two selected dates. Areas of blue shading indicate areas of concentration decrease and red shading indicates areas of concentration increase. The relative magnitude of plume concentration change is indicated by gradational shading. Interpretations of the results are as follows:

- During this time period, the total molar plume average concentration decreased by 34% and the mass indicator decreased by 19%.

- When comparing the areas of concentration increase (red shading) and concentration decrease (blue shading) between 2005 and June 2015, total CVOCs have decreased in the source area and have increased in areas near recovery wells ARW-1 and ARW-3. The blue shading in the area of AMW-1, ARW-2, and ARW-4 indicate concentrations have reduced. This may be due to recovery wells pulling some contaminant mass out of the plume. However, the red shading near AMW-9, ARW-1, and ARW-3 indicate concentrations have increased, possibly due to the influence of the recovery wells physically pulling the plume in their direction perpendicular to groundwater flow (i.e. in the case of ARW-1 and ARW-3).

Total CVOC Molar (Pie Chart) Analysis - June 2015 (Figure 9)

The following are observations made from the total CVOC molar analysis (in nmol/L) conducted on the June 2015 data:

- The June 2015 molar patterns show that PCE comprises the majority of the total CVOC molar concentration.
- The molar patterns in recovery wells ARW-1, ARW-2, ARW-3, and ARW-4, as well as off-site well MW-23, are similar to the molar patterns in the source area near AMW-1. These wells are located side-gradient and perpendicular to groundwater flow direction.

DOBBS AREA

Ricker Method® Plume Stability Analysis (Figures 1 – 7 and Appendices A – G)

A Ricker Method® Plume Stability Analysis was conducted for the Dobbs Area plume using groundwater data for each of the six CVOCs and total CVOCs for years 2005 through June 2015. The Ricker Method® Plume Stability Analysis for each of the constituents evaluated in the Fire Release Area resulted in the following trends:

Constituent	Area	Average Concentration	Mass Indicator
*1,1,1-TCA	Decreasing	Decreasing	Decreasing
*1,1-DCE	Decreasing	Stable/Decreasing	Decreasing
*VC	Stable	Stable	Stable
PCE	Decreasing	Stable	Stable/Decreasing
TCE	Stable	Stable/Decreasing	Stable
cis-1,2-DCE	Stable/Increasing	Increasing	Stable/Increasing
Total CVOCs	Decreasing	Decreasing	Decreasing

*Primary parent – daughter sequence

- 1,1,1-TCA and 1,1-DCE are both decreasing along with the total CVOC plume. However, as discussed later, the molar ratio of 1,1,1-TCA decreases as 1,1-DCE increases indicating possible abiotic degradation processes may be occurring.

- PCE, TCE, cis-1,2-DCE, and VC are not relatively significant constituents in the Dobbs Area plume as evidenced by the very low relative average concentration and mass indicator when compared to 1,1,1-TCA and 1,1-DCE.

Total CVOCs - Plume Difference Map (Figure 10)

This figure provides plume trend analysis results on a molar basis of plume area, average concentration, and mass indicator for as well as the plume difference map. The spatial difference figure is solely based on the difference between the 2005 and June 2015 monitoring event results and depict magnitude and locations where the dissolved contaminant plume differed between the two selected dates. Areas of blue shading indicate areas of concentration decrease and red shading indicates areas of concentration increase. The relative magnitude of plume concentration change is indicated by gradational shading. Interpretations of the results are as follows:

- The total molar plume area trend, molar plume average concentration trend, and total molar trend are all decreasing. From 2005 to June 2015, the total CVOC plume area decreased by 19%, plume average concentration decreased by 67%, and plume mass indicator decreased by 73%.

- As demonstrated with the blue shading, reductions in molar concentration have occurred across nearly the entire plume.

- The plume boundary has not noticeably changed between 2005 and June 2015 except with a slight shift upgradient. As discussed below, the upgradient shift appears to be due to relatively low-level concentrations of CVOCs detected in DMW-6.

Total CVOC Molar (Pie Chart) Analysis - June 2015 (Figure 11)

The following are observations made from the total CVOC molar analysis (in nmol/L) conducted on the June 2015 data:

- The plume area is characterized by the prevalence of 1,1,1-TCA and breakdown products 1,1-DCE and VC throughout the plume.

- In 2005, 1,1,1-TCA comprised approximately 70% of the molar ratio of the plume while its daughter compound 1,1-DCE comprised approximately 30%. Over time, 1,1,1-TCA decreased to approximately 50% of the molar ratio while 1,1-DCE increased to approximately 50%. This decrease in the parent compound (1,1,1-TCA) and increase in

the daughter compound (1,1-DCE) is representative of abiotic degradation processes. The total molar mass (yellow shaded area) reduced significantly between 2005 and 2009 and has remained fairly stable since 2009. The initial sharp reduction observed from 2005 through 2009 may be due to the operation of the groundwater recovery system removing contaminant mass. However, after 2009 the operation of the recovery system does not appear to have had a pronounced impact on reducing plume mass as evidenced by the relatively stable concentration trend since 2009.

- Groundwater flow direction is to the north-northwest in the Dobbs Area. The molar ratio pattern of upgradient well DMW-6 does not match the molar ratio patterns of the other wells in the Dobbs Area. Instead, the molar ratio pattern of DMW-6 resembles the molar ratio patterns of wells downgradient of the hydrogeologic ridge in the Fire Release Area where detections of PCE and TCE are prominent (e.g. DMW-3 and DMW-5). The active recovery wells in the Dobbs Area may have induced a gradient allowing contaminants to migrate from the Fire Release Area toward the Dobbs Area through fracture flow or other preferential pathways.

Well by Well Molar Evaluation (Figure 12)

The charts on Figure 12 are based on data sets from January 2005 through April 2015. Total molar concentration (nmol/L) is plotted on the primary y-axis, while the percentage of the molar ratio is plotted on the secondary y-axis. The yellow shaded area represents the total molar concentration, while the line graphs represent the percentage each CVOC contributes to the total molar concentration. The following summarizes trends and interpretations of the data.

- The predominant CVOC comprising the molar ratio at DMW-7/DRW-1 is 1,1-DCE at approximately 65%, while 1,1,1-TCA comprises approximately 35%. However, the total molar concentration (yellow shaded area) has been fairly consistent since 2005. The molar ratio pattern in this well is typical of an abiotic degradation pattern but has not translated into reduction in molar concentration. This could possibly be due to the groundwater recovery system pulling a steady flow of contamination into that area.

- The predominant CVOC comprising the molar ratio at DMW-8/DRW-2 is 1,1,1-TCA at approximately 65%, while 1,1-DCE comprises approximately 35% and this ratio stays consistent through the 2005 to 2009 time period. However, the total molar concentration (yellow shaded area) showed reductions between 2005 and 2009. Typically a pattern of steady molar ratios in conjunction with decreasing concentrations is due to abiotic destruction, physical processes, or anthropogenic removal (e.g. pumping wells). It is also possible that an upgradient infiltration gallery may have induced an aerobic condition and possibly retarded reduction dechlorination processes that are observed in the other wells.

- The predominant CVOC comprising the molar ratio at DMW-9/DRW-3 is 1,1-DCE at approximately 60%, while 1,1,1-TCA comprises approximately 40%. The decrease in the parent compound 1,1,1-TCA corresponding to an increase in the daughter compound 1,1-DCE is a typical pattern of abiotic degradation processes. The total molar concentration (yellow shaded area) has significantly reduced since 2005. The reduction in molar concentration may be due to the physical removal of contaminants by the groundwater remediation system, the abiotic degradation of CVOC compounds, physical processes, or a combination thereof.

- The molar ratio pattern of DMW-6 changed after 2009. 1,1,1-TCA decreased from approximately 60% to approximately 20%. PCE increased from approximately 10% to approximately 60%. There is also an increase in molar concentration of cis-1,2-DCE and VC. These constituents are similar to the constituents found in the Fire Release Area and may have been pulled to the Dobbs Area by the operation of the Dobbs Area recovery wells.

- DMW-1, DMW-2, DMW-10, OBG-W1, OBG-W7, MW-22D have such low molar concentrations that their molar patterns are relatively insignificant in the interpretation of the patterns of the overall plume.

4.0 SUMMARY AND CONCLUSIONS

The following is a general narrative summary of the key findings of this Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis. Additional detail and findings are provided in the previous sections.

Fire Release Area

Results of a Ricker Method® Plume Stability Analysis conducted on data from 2005 through June 2015 indicate a decrease in the PCE plume average concentration and mass indicator, and an increase in PCE plume area. Results also show an increase in plume area, average concentration, and mass indicator for TCE, cis-1,2-DCE, and VC. The decreasing PCE average concentration and mass indicator followed by increasing average concentration and mass indicator for TCE, cis-1,2-DCE, and VC is what would be expected for a plume undergoing some degree of reductive dechlorination. However, because PCE is the predominant constituent as evidenced by a mass indicator orders of magnitude higher than TCE, cis,1-2-DCE, and VC, reductive dechlorination is subtly occurring but not at an appreciable rate that translates into plume mass reduction through complete mineralization.

The total CVOC plume is also slowly decreasing in total molar plume average concentration. This may be due to the subtle reductive dechlorination processes coupled with the physical removal of contaminant mass from the plume by the recovery wells. The area of the total CVOC plume has slightly increased from 4.92 acres to 6.05 acres over 10 years. The direction in which the plume appears to have increased is perpendicular to groundwater flow. Typically groundwater plumes are elongate in shape and parallel to groundwater flow direction. As seen in the plume difference map (Figure 8), the groundwater plume seems to have expanded north and perpendicular to groundwater flow direction toward recovery wells ARW-1, ARW-2, ARW-3, and ARW-4. These recovery wells may have pulled the plume in their direction, possibly explaining the increase in plume area. Again, it is important to note that although area of the plume slightly increased, the mass and average concentrations within the plume have decreased.

Dobbs Area

Results of a Ricker Method® Plume Stability Analysis conducted on data from 2005 through June 2015 for the Dobbs Area show that the total CVOC plume is decreasing. This statement is supported by the stable to decreasing trends in area, average concentration, and mass indicator for the CVOC constituents as well as total CVOCs.

Reductions in molar mass have also occurred across nearly the entire plume. This decrease in molar concentration initially may have been due to the operation of the groundwater recovery system removing contaminant mass. However, as seen on Figure 11, the operation of the

recovery system does not appear to have had a pronounced impact on reducing plume mass as evidenced by the relatively stable trend since 2009.

The Dobbs Area plume boundary has not noticeably changed between 2005 and June 2015 except with a slight shift upgradient. The upgradient shift appears to be due to concentrations detected in DMW-6. The June 2015 molar ratio pattern of DMW-6 does not match the molar ratio patterns of the other wells in the Dobbs Area but resembles the molar ratio patterns of wells downgradient of the hydrogeologic ridge in the Fire Release Area (e.g. DMW-3 and DMW-5). The active recovery wells in the Dobbs Area may have induced a gradient allowing contaminants to migrate from the Fire Release Area toward the Dobbs Area through preferential pathways. However, for purposes of this evaluation, DMW-6 was included into the Dobbs plume analysis. Concentrations of PCE, TCE, cis-1,2-DCE, and VC are not relatively significant in the Dobbs Area plume as evidenced by their very low relative average concentrations and mass indicators when compared to 1,1,1-TCA and 1,1-DCE. However, these low concentrations may have biased the plume boundary in an upgradient direction.

5.0 LIMITATIONS

Per the terms and conditions under which this scope of work was performed, this report shall be the sole property of Apollo. This report was prepared for the sole and exclusive use and reliance of Apollo and may also be relied upon by any regulatory agency receiving a copy of this report from Apollo. Any person or entity other than such regulatory agency ("third parties", including any members of the public who may access this report as a public document) receive it in every instance solely for informational purposes and not for any type of reliance. This report presents observations and opinions based solely upon the agreed scope of work outlined in this report and EarthCon's Proposal for Environmental Consulting Services and ROM Costs for VIRP Implementation, dated August 13, 2014. EarthCon makes no warranties or guarantees as to the accuracy or completeness of information, if any, provided or compiled by individuals or entities other than EarthCon. It is possible that, as a result of the limitations imposed on the scope of work, there exists relevant information that was not considered in the findings, observations and opinions as presented in this report. Additional information, which was not found or available to EarthCon at the time of writing this report, may result in modification of the findings, observations, and opinions presented herein. This report is not intended to be and is not a legal opinion. The services performed by EarthCon have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing at the same time under similar conditions. No other warranty, expressed or implied, is made.

6.0 REFERENCES

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TABLES

Table 1
Summary of Analytical Data
Tetrachloroethene (PCE)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	<0.0050	NS (0.0083)	NS (0.012)	0.015	<0.0050	0.028	0.0052	<0.0050	0.0082	0.0022	<0.0050	<0.0050	0.0028
DMW-10	<0.0050	<0.0050	<0.0050	0.011	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	NS (<0.0010)
DMW-2	<0.0050	<0.0050	<0.0050	0.012	0.0066	<0.0050	<0.0050	<0.0050	0.0015	0.0010	<0.0050	0.016	0.0030
DMW-6	0.058	0.055	0.034	0.036	0.025	0.33	0.23	0.20	0.25	0.29	0.011	0.40	0.16
DMW-7/DRW-1	<2.5 (0.036)	0.039	<0.50 (0.022)	<0.0050	<0.0050	<0.0050	0.0055	0.016	0.0017	<0.0050	<0.0050	<0.0050	<0.0010
DMW-8/DRW-2	<2.5 (0.060)	0.14	<0.50 (0.081)	0.022	<0.0050	<0.0050	0.011	<0.0050	0.016	<1.0	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)
DMW-9/DRW-3	<2.5 (0.049)	0.12	<0.10 (0.070)	0.020	<0.0050	0.022	0.049	0.018	0.0097	0.0088	<0.0050	0.0061	0.028
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0050	<0.0040
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	<0.020	<0.0010	<0.0050	<0.0050	<0.10
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	0.31	0.0076	NS (0.0045)	NS (0.0030)	0.0014
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	<0.010	0.017	0.040	0.035	0.034
Fire Release Area													
AMW-1	130	170	170	140	94.0	90.0	50.0	1.50	85.0	89.0	80.0	150	90.2
AMW-10	46.0	63.0	49.0	55.0	26.0	32.0	31.0	14.0	4.40	2.70	12.0	13.0	31.8
AMW-11D	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0250	<0.00500	0.00110	0.0190	0.0180	0.0220	0.00600
AMW-12	45.0	NS (52.0)	NS (59.0)	66.0	75.0	82.0	63.0	51.0	37.0	31.0	63.0	34.0	27.1
AMW-13	36.0	52.0	38.0	50.0	58.0	73.0	47.0	22.0	32.0	17.0	28.0	22.0	22.8
AMW-14	9.30	3.00	10.0	3.70	1.10	0.820	0.500	0.180	0.100	0.0910	0.150	0.670	1.51
AMW-15	0.840	0.870	0.890	0.660	1.60	0.610	0.470	0.250	0.370	0.240	0.220	0.220	0.411
AMW-16	3.90	4.00	3.70	19.0	16.0	6.50	2.90	1.90	2.70	2.50	2.20	2.60	1.31
AMW-17	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0380	0.00600	<0.00500	0.00100	<0.00100	NS (0.00466)	NS (0.00646)	0.00830
AMW-18	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	0.0200	NS (0.0112)	NS (0.00691)	0.00250
AMW-19	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	NS (<0.00100)	NS (<0.00100)	<0.00100
AMW-2	9.50	NS (16.8)	24.0	39.0	13.0	14.0	12.0	11.0	8.70	4.40	13.0	3.10	1.68
AMW-20	<0.00500	<0.00500	<0.00500	0.0100	<0.00500	0.130	0.0380	0.0100	0.00680	0.00230	0.0130	0.0140	0.0272
AMW-21	11.0	26.0	9.30	36.0	28.0	21.0	13.0	7.50	86.0	15.0	20.0	22.0	22.1
AMW-3	11.0	7.30	44.0	29.0	34.0	17.0	15.0	NS (13.5)	12.0	14.0	6.20	13.0	22.9
AMW-4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	NS (<0.00500)	NS (<0.00500)	<0.00100
AMW-5	<0.00500	<0.00500	<0.00500	<0.00500	0.00180	0.280	0.720	0.430	0.250	0.130	NS (0.208)	NS (0.246)	0.285
AMW-6	<0.00500	<0.00500	0.0140	1.80	1.70	2.80	1.40	1.10	0.600	0.360	NS (0.400)	NS (0.420)	0.440
AMW-7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00490	0.00880	NS (0.00815)	NS (0.00783)	0.00750
AMW-8	16.0	NS (13.7)	NS (11.5)	NS (9.20)	NS (6.93)	NS (4.67)	2.40	NS (2.55)	2.70	2.70	5.20	7.90	9.26
AMW-9	39.0	42.0	30.0	86.0	37.0	83.0	70.0	59.0	63.0	NS (63.0)	NS (63.0)	NS (63.0)	NS (63.0)
ARW-1	NS (6.48)	NS (8.98)	NS (11.5)	NS (14.0)	NS (16.5)	NS (19.0)	NS (21.5)	24.0	23.0	22.0	41.0	42.0	38.2
ARW-2	NS (20.8)	NS (19.4)	NS (18.0)	NS (16.6)	NS (15.2)	NS (13.8)	NS (12.4)	11.0	6.50	2.10	1.00	1.60	1.30
ARW-3	NS	NS	NS	NS	NS	NS	NS	4.00	7.30	9.50	7.20	3.00	2.81
ARW-4	NS (49.5)	NS (50.4)	NS (51.3)	NS (52.3)	NS (53.2)	NS (54.1)	NS (55.1)	56.0	45.0	NS (31.9)	NS (27.2)	NS (24.9)	22.6
DMW-12	12.0	24.0	39.0	41.0	32.0	39.0	40.0	43.0	40.0	33.0	50.0	48.0	31.0
DMW-13	NA	NA	1.30	13.0	5.80	1.50	1.30	0.630	0.750	0.700	NS (0.701)	NS (0.701)	0.701
DMW-14D	NA	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	NS (<0.00100)	NS (<0.00100)	<0.00100
DMW-15	NA	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00320	<0.00100	NS (0.00105)	NS (0.00132)	0.00160
DMW-3	<0.00500	0.00730	0.0110	0.0120	0.0520	0.170	0.0970	0.270	0.590	0.690	NS (1.39)	NS (1.73)	2.08
DMW-5	0.00700	0.0110	0.0350	0.240	0.690	0.820	0.170	0.690	0.420	0.600	NS (0.579)	NS (0.569)	0.558
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.540	0.0330	0.00860
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	0.0660	0.0380	NS (0.0402)	NS (0.0413)	0.0424
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.00100	<0.00100	NS (<0.00100)	NS (<0.00100)	<0.00100
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	6.60	6.50	7.50	8.70	4.79
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.00100	<0.00100	NS (0.00140)	NS (0.00185)	0.00230

Notes:

All concentrations in mg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

Well not installed. Extrapolated from a sampling event.

Non-Sampled Well

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Table 2
Summary of Analytical Data
Trichloroethene (TCE)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0068	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
DMW-10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	NS (<0.0010)
DMW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
DMW-6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	0.12	0.028	0.013	0.032	0.027	0.17	0.082
DMW-7/DRW-1	<2.5 (0.0096)	0.010	<0.50 (0.0075)	<0.0050	<0.0050	0.0056	0.010	0.015	0.012	0.0084	0.0060	0.012	0.011
DMW-8/DRW-2	<2.5 (0.034)	0.052	<0.50 (0.044)	0.035	0.010	0.016	0.013	0.012	0.031	0.012	NS (0.012)	NS (0.012)	NS (0.012)
DMW-9/DRW-3	<2.5 (0.025)	0.026	<0.10 (0.050)	0.074	0.078	0.015	0.051	0.035	0.012	0.023	<0.0050	0.020	0.016
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0050	<0.0040
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	<0.0050	<0.0050	<0.10
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	0.0039	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	0.0092	0.037	0.068	0.063	0.053
Fire Release Area													
AMW-1	<2.5 (0.11)	0.076	<1.0 (0.14)	0.21	0.060	0.039	0.030	0.025	0.014	<10 (0.031)	<0.50 (0.037)	<0.25 (0.040)	0.043
AMW-10	<2.5 (0.11)	0.17	<0.50 (0.17)	0.16	0.12	0.031	0.054	0.096	0.042	0.048	0.064	<0.25 (0.059)	0.054
AMW-11D	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-12	<0.50 (0.23)	NS (0.32)	NS (0.40)	0.49	0.70	<0.12	<0.16	1.4	1.4	1.3	<2.5 (1.3)	1.3	0.75
AMW-13	0.30	0.42	0.26	1.7	1.7	1.7	1.5	1.1	1.1	0.70	0.64	0.78	0.74
AMW-14	<0.50 (0.097)	0.039	<0.10 (0.032)	0.024	<0.0050	<0.0050	<0.0050	<0.0050	0.0016	0.025	0.011	0.026	0.078
AMW-15	0.010	0.0099	<0.050 (0.0090)	0.0080	0.0094	0.0059	0.0054	<0.0050	0.0033	0.0046	<0.0050	0.0058	0.0068
AMW-16	0.046	0.048	<0.10 (0.074)	0.10	0.083	0.049	0.026	0.020	0.019	0.014	0.013	0.015	0.011
AMW-17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-19	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-2	<0.0050	NS (<0.0050)	<0.10 (0.10)	0.19	<0.0050	0.013	0.025	0.037	0.014	0.011	<0.50 (0.0072)	0.0054	0.0037
AMW-20	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-21	<2.5 (0.13)	0.14	<0.50 (0.31)	0.47	0.60	0.35	0.22	0.16	0.18	0.32	0.39	0.52	0.50
AMW-3	<0.25 (0.066)	0.067	0.21	0.14	0.21	<0.12	0.13	NS (0.093)	0.056	0.070	0.020	<0.25 (0.011)	<0.10
AMW-4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-6	<0.0050	<0.0050	<0.0050	0.023	0.012	0.032	0.019	0.012	0.0063	0.0042	NS (0.0057)	NS (0.0064)	0.0071
AMW-7	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-8	NS (0.0031)	NS (0.0036)	NS (0.0040)	NS (0.0044)	NS (0.0048)	NS (0.0052)	0.0056	NS (0.0070)	0.0084	0.0061	<0.050 (0.016)	0.021	<0.050
AMW-9	0.020	0.47	1.4	1.3	0.63	1.2	1.3	2.9	2.7	NS (2.7)	NS (2.7)	NS (2.7)	NS (2.7)
ARW-1	NS (0.092)	NS (0.14)	NS (0.19)	NS (0.24)	NS (0.29)	NS (0.34)	NS (0.39)	0.44	0.41	0.32	<0.50 (0.48)	0.56	<2.0 (0.56)
ARW-2	NS (0.12)	NS (0.20)	NS (0.27)	NS (0.35)	NS (0.42)	NS (0.50)	NS (0.57)	0.65	0.24	0.054	0.044	0.049	0.051
ARW-3	NS	NS	NS	NS	NS	NS	NS	0.064	0.12	0.21	0.16	0.055	0.064
ARW-4	NS (0.50)	NS (0.66)	NS (0.81)	NS (0.97)	NS (1.1)	NS (1.3)	NS (1.4)	1.6	1.7	NS (1.2)	NS (1.0)	NS (0.95)	0.86
DMW-12	<2.5 (0.059)	0.041	<0.10	0.27	0.61	<0.12	0.67	0.77	0.56	0.45	0.58	0.54	0.38
DMW-13	NA	NA	0.022	0.072	0.044	0.014	0.012	0.0088	0.0071	0.0074	NS (0.0080)	NS (0.0082)	0.0085
DMW-14D	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0020)	NS (<0.0020)	<0.0010
DMW-15	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0020)	NS (<0.0020)	<0.0010
DMW-3	<0.0050	<0.0050	<0.0050	<0.0050	0.0096	0.010	0.0066	0.023	0.17	0.058	NS (0.14)	NS (0.18)	0.23
DMW-5	<0.0050	<0.0050	0.012	0.084	0.25	0.32	0.083	0.48	0.26	0.49	NS (0.49)	NS (0.48)	0.48
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34	0.020	0.0033
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	0.0017	0.0015	NS (0.0014)	NS (0.0014)	0.0013
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	0.13	0.099	0.13	0.13	0.12
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0050)	NS (<0.0050)	<0.0010

Notes:

All concentrations in mg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

Well not installed. Extrapolated from a sampling event.

Non-Sampled Well

Earthcon Consultants, Inc.
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Table 3
Summary of Analytical Data
cis-1,2-Dichloroethene (cis-1,2-DCE)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	<0.0050	NS (<0.0050)	NS (<0.0050)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0010	<0.0050	<0.0050	<0.0050
DMW-10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	NS (<0.0010)
DMW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
DMW-6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0067	0.15	0.040	0.024	0.031	0.15	0.12	0.049
DMW-7/DRW-1	<2.5	<0.0050	<0.50	<0.0050	<0.25	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	0.00049
DMW-8/DRW-2	<2.5	0.0070	<0.50	<0.0050	<0.25	<0.0050	0.034	<0.0050	0.023	<0.010	NS (<0.010)	NS (<0.010)	NS (<0.010)
DMW-9/DRW-3	<2.5	0.012	<0.10	<0.0050	<0.25	0.0082	0.048	0.024	0.054	0.028	<0.0050	0.041	0.024
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0050	<0.0040
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	<0.0050	<0.0050	<0.10
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	0.0028	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	0.0041	0.024	0.041	0.039	0.039
Fire Release Area													
AMW-1	<2.5	0.072	<1.0 (0.21)	0.34	0.0095	0.025	0.0095	0.0095	0.0094	<10 (0.082)	<0.50 (0.11)	0.12	0.084
AMW-10	<2.5	0.026	<0.50	0.026	<0.0050	0.0081	0.047	0.021	0.010	0.018	0.014	<0.25	0.016
AMW-11D	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-12	<0.50 (0.29)	NS (0.42)	NS (0.54)	0.67	0.0095	<0.18 (0.18)	<0.17 (0.17)	1.1	0.84	0.95	<2.5 (0.84)	0.79	0.86
AMW-13	0.34	0.61	0.35	3.2	0.0080	2.5	2.2	1.7	1.8	1.4	0.89	1.2	1.3
AMW-14	<0.50	0.17	<0.10 (0.100)	0.029	<0.0050	<0.0050	<0.0050	<0.0050	0.0019	0.023	<0.0050	0.034	0.10
AMW-15	<0.0050	0.011	<0.050	0.0061	<0.0050	<0.0050	<0.0050	<0.0050	0.0012	0.0040	0.010	0.010	0.0063
AMW-16	0.0050	0.0090	<0.10	0.052	<0.0050	0.014	0.0099	<0.0050	0.0034	0.0045	<0.0050	0.0037	0.0032
AMW-17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-19	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-2	<0.0050	<0.50	NS (<0.0050)	0.059	<0.0050	<0.0050	<0.034	0.030	0.013	0.018	<0.50	0.0035	0.0024
AMW-20	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (<0.0050)	<0.0010	<0.0010	<0.0050	<0.0050	0.0019
AMW-21	<2.5 (0.18)	0.26	<0.50	0.86	<0.0050	0.43	<0.17	0.20	0.22	0.52	0.54	0.72	0.81
AMW-3	<0.25	0.067	0.17	0.080	<0.0050	<0.0050	0.20	NS (0.13)	0.061	0.085	0.021	<0.25	0.032
AMW-4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-6	<0.0050	<0.0050	<0.0050	0.084	<0.0050	0.037	0.015	0.0079	0.0039	0.0024	NS (0.0031)	NS (0.0034)	0.0037
AMW-7	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-8	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<0.0010	<0.0010	<0.050	<0.0050	<0.050
AMW-9	0.046	0.90	3.1	1.7	<0.0050	1.7	1.7	3.9	5.0	NS (5.0)	NS (5.0)	NS (5.0)	NS (5.0)
ARW-1	NS (0.045)	NS (0.061)	NS (0.078)	NS (0.094)	NS (0.11)	NS (0.13)	NS (0.14)	0.16	0.12	0.13	<0.50 (0.13)	<0.25 (0.13)	<2.0 (0.13)
ARW-2	NS (0.74)	NS (0.89)	NS (1.0)	NS (1.2)	NS (1.3)	NS (1.5)	NS (1.6)	1.8	0.49	0.089	0.073	0.13	0.12
ARW-3	NS	NS	NS	NS	NS	NS	NS	0.069	0.15	0.33	0.16	0.074	0.100
ARW-4	NS (0.68)	NS (0.89)	NS (1.1)	NS (1.3)	NS (1.5)	NS (1.8)	NS (2.0)	2.2	3.0	NS (2.8)	NS (2.7)	NS (2.6)	2.6
DMW-12	<2.5	0.034	<0.10	0.039	<0.0050	<0.18	<0.17	0.23	0.18	0.16	0.17	0.19	0.12
DMW-13	NA	NA	<0.0050	0.039	0.018	<0.0050	<0.0050	<0.0050	0.0023	0.0016	NS (0.0018)	NS (0.0018)	0.0019
DMW-14D	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-15	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-3	<0.0050	0.0079	0.021	0.016	0.022	0.033	0.027	0.071	0.13	0.23	NS (0.39)	NS (0.47)	0.55
DMW-5	0.014	0.019	0.036	0.19	0.33	0.26	0.13	0.25	0.19	0.22	NS (0.21)	NS (0.20)	0.20
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.22	0.0091	0.0015
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	0.0027	0.0026	NS (0.0023)	NS (0.0022)	0.0021
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	0.14	0.16	0.22	0.18	0.19
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010

Notes:
All concentrations in mg/l
NA: Well not installed, abandoned or otherwise not utilized.
<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)
<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.
NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.
Non-Sampled well assumed non-detect
Interpolated between two sampling events.
Extrapolated from a sampling event.
Well not installed. Extrapolated from a sampling event.
Non-Sampled Well

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Table 4
Summary of Analytical Data
Vinyl Chloride (VC)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	<0.0050	NS (<0.0050)	NS (<0.0050)	<0.0050	0.0040	<0.0020	<0.0020	<0.0020	<0.010	<0.0010	<0.0020	<0.0020	<0.0050
DMW-10	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	NS (<0.0010)
DMW-2	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
DMW-6	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	0.33	0.068
DMW-7/DRW-1	<2.5	0.018	NS (0.014)	0.010	<0.0020	0.0064	0.0034	0.0022	0.0013	<0.0050	<0.0020	<0.0020	0.00074
DMW-8/DRW-2	<2.5	0.085	NS (0.045)	<0.0050	0.0055	0.0036	0.0011	0.0037	0.0030	<0.010	NS (<0.010)	NS (<0.010)	NS (<0.010)
DMW-9/DRW-3	<2.5	0.066	NS (0.042)	0.017	0.0067	0.0085	0.0014	0.0054	0.0063	0.0058	<0.0020	0.0056	0.0048
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0020	<0.0040
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	<0.0020	<0.0020	<0.10
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	0.0039	0.0059	0.0062	0.0047
Fire Release Area													
AMW-1	<2.5	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.19	<0.046	<0.0020	<0.0010	<10	<0.20	<0.10	<0.0010
AMW-10	<2.5	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.10	<0.0010
AMW-11D	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
AMW-12	<0.50	NS (<0.0050)	NS (<0.0050)	<0.0050	0.0052	<0.19 (0.0057)	<0.23 (0.0061)	0.0066	<0.010 (0.0061)	<0.020 (0.0055)	<1.0 (0.0052)	<0.10 (0.0051)	<0.0050
AMW-13	<0.50	<0.0050	NS (<0.0050)	0.028	0.0053	<0.19 (0.0047)	<0.23 (0.0041)	0.0035	0.0026	<0.010 (0.0022)	0.0020	<0.020	<0.0010
AMW-14	<0.50	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
AMW-15	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
AMW-16	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.00046	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
AMW-17	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.00046	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-18	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-19	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-2	<0.50	NS (<0.0050)	NS (<0.0050)	<0.0050	<0.10	<0.0020	<0.00046	<0.0020	<0.0010	<0.0010	<0.20	<0.0050	<0.0010
AMW-20	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.00046	NS (<0.00046)	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
AMW-21	<2.5	<0.0050	NS (<0.0050)	<0.0050	<0.10	<0.0020	<0.23	<0.0020	<0.050	<0.010	<0.0020	<0.10	<0.0010
AMW-3	<0.25	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.19	<0.0020	NS (<0.0020)	<0.0010	<0.010	<0.0020	<0.10	<0.10
AMW-4	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-5	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-6	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-7	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-8	<0.0050	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<0.0020	NS (<0.0020)	<0.0010	<0.0010	<0.020	<0.0020	<0.050
AMW-9	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.10 (0.0050)	0.0050	<0.23	0.020	<0.10 (0.020)	NS (0.020)	NS (0.020)	NS (0.020)	NS (0.020)
ARW-1	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<0.0020	<0.010	<0.010	<0.20	<0.10	<2.0
ARW-2	NS (<0.010)	NS (<0.010)	NS (<0.010)	NS (<0.010)	NS (<0.010)	NS (<0.010)	NS (<0.010)	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
ARW-3	NS	NS	NS	NS	NS	NS	NS	<0.0020	<0.0010	<0.010	<0.0020	<0.0020	<0.0010
ARW-4	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.050)	0.0059	<0.10 (0.0059)	NS (0.0059)	NS (0.0059)	NS (0.0059)	<4.0 (0.0059)
DMW-12	<2.5	<0.0050	NS (<0.0050)	<0.0050	<0.10	<0.0020	<0.23	<0.0020	<0.10	<0.010	<0.0020	<0.10	<5.0
DMW-13	NA	NA	NA	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-14D	NA	NA	NA	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-15	NA	NA	NA	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-3	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.00046	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-5	<0.0050	<0.0050	NS (<0.0050)	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0020	<0.0010
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.010	NS (<0.010)	<0.0020	<0.0010
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010

Notes:

All concentrations in mg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

Well not installed. Extrapolated from a sampling event.

Non-Sampled Well

Earthcon Consultants, Inc.
1880 West Oak Parkway P: 770-973-2100
Building 100, Suite 106 F: 770-973-7395
Marietta, GA 30062 www.earthcon.com

Table 5
Summary of Analytical Data
1,1,1-Trichloroethane (1,1,1-TCA)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	6.60	NS (4.90)	NS (3.20)	1.50	3.50	2.90	2.10	0.740	0.640	0.690	0.530	0.170	0.412
DMW-10	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	NS (<0.00100)	NS (<0.00100)	NS (<0.00100)
DMW-2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00100	<0.00100	<0.00500	<0.00500	0.000550
DMW-6	0.200	0.210	0.0920	0.100	0.0920	0.0870	0.0480	0.0490	0.0200	0.0170	<0.00500	0.0550	0.0284
DMW-7/DRW-1	29.0	21.0	9.20	6.50	1.50	9.10	9.10	19.0	17.0	9.00	6.10	12.0	9.89
DMW-8/DRW-2	190	140	30.0	120	26.0	41.0	21.0	25.0	24.0	29.0	NS (29.0)	NS (29.0)	NS (29.0)
DMW-9/DRW-3	93.0	58.0	28.0	16.0	15.0	18.0	15.0	6.70	5.50	3.70	0.200	1.80	4.74
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.200	0.290	0.188
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	1.20	0.110	1.20	1.10	1.02
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	0.00130	0.00200	NS (0.00255)	NS (0.00282)	0.00310
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	0.350	4.20	6.20	7.10	4.27
Fire Release Area													
AMW-1	<2.5	0.010	<1.0	<0.0050	<0.0050	0.015	0.0076	0.013	0.0061	<10	<0.50	<0.25	<0.0010
AMW-10	<2.5	<0.0050	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.25	<0.0010
AMW-11D	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-12	<0.50	NS (0.012)	NS (0.018)	0.025	0.13	<0.047	<0.26	0.071	0.046	0.044	<2.5	0.077	0.053
AMW-13	<2.5	0.038	<0.010	0.0090	0.0090	<0.047	<0.26	<0.0050	0.0027	<0.010	<0.0050	<0.050	<0.0010
AMW-14	<0.50	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-15	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-16	0.053	0.051	<0.10	0.031	0.033	0.043	0.035	0.028	0.018	0.0088	0.0065	0.0086	0.0048
AMW-17	<0.0050	<0.0050	<0.0050	0.040	0.027	0.10	0.039	0.034	0.011	0.0068	NS (0.0091)	NS (0.010)	0.011
AMW-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-19	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-2	<0.0050	NS (<0.0050)	<0.10	0.031	<0.0050	0.011	0.023	0.020	<0.010	0.0035	<0.50	0.0020	0.0013
AMW-20	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (<0.0050)	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-21	<2.5	0.011	<0.50	<0.0050	<0.0050	<0.0050	<0.051	<0.0050	<0.050	<0.010	<0.0050	<0.25	<0.0010
AMW-3	<0.25	<0.0050	<0.050	<0.0050	<0.0050	<0.047	<0.0050	NS (<0.0050)	<0.0010	<0.010	<0.0050	<0.25	<0.0010
AMW-4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-6	<0.0050	0.012	0.0094	0.032	0.017	0.046	0.036	<0.023	0.011	0.0072	NS (0.0093)	NS (0.010)	0.011
AMW-7	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0028	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-8	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<0.0010	<0.0010	<0.050	<0.0050	<0.0010
AMW-9	0.0050	0.013	<0.10	0.012	<0.0050	0.030	<0.26	0.015	<0.10	NS (<0.10)	NS (<0.10)	NS (<0.10)	NS (<0.10)
ARW-1	NS (0.024)	NS (0.022)	NS (0.021)	NS (0.019)	NS (0.018)	NS (0.016)	NS (0.015)	0.013	0.018	0.019	<0.50	<0.25	<2.0
ARW-2	NS (0.0059)	NS (0.0065)	NS (0.0071)	NS (0.0077)	NS (0.0083)	NS (0.0088)	NS (0.0094)	0.010	0.054	0.026	0.019	0.030	0.031
ARW-3	NS	NS	NS	NS	NS	NS	NS	<0.0050	0.0011	<0.010	<0.0050	<0.0050	<0.0010
ARW-4	NS (0.060)	NS (0.053)	NS (0.045)	NS (0.038)	NS (0.030)	NS (0.023)	NS (0.015)	0.0077	<0.10	NS (<0.10)	NS (<0.10)	NS (<0.10)	<4.0
DMW-12	<2.5	0.043	<0.10	0.023	<0.0050	<0.047	<0.26	0.053	<0.10	0.018	0.019	<0.25	<5.0
DMW-13	NA	NA	0.058	0.065	0.042	0.023	0.033	0.025	0.017	0.011	NS (0.0099)	NS (0.0094)	0.0089
DMW-14D	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-15	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-3	0.42	0.24	0.16	0.19	0.19	0.18	0.21	0.21	0.12	0.12	NS (0.11)	NS (0.11)	0.10
DMW-5	0.051	0.046	0.037	0.016	0.064	0.038	0.028	0.035	0.020	0.016	NS (0.016)	NS (0.016)	0.017
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.034	<0.0050	<0.0010
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	0.010	0.0070	NS (0.0069)	NS (0.0069)	0.0068
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	0.0027	<0.010	<0.050	0.0025	0.0019
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010

Notes:

All concentrations in mg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

Well not installed. Extrapolated from a sampling event.

Non-Sampled Well

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Marietta, GA 30062 www.earthcon.com

Table 6
Summary of Analytical Data
1,1-Dichloroethene (1,1-DCE)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	Jun. 2014	Dec. 2014	Mar. 2015	Jun. 2015
Dobbs Area													
DMW-1	3.5	NS (2.7)	NS (1.9)	1.1	3.1	3.4	2.1	1.6	0.94	1.2	0.91	0.32	0.77
DMW-10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	NS (<0.0010)
DMW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
DMW-6	0.12	0.10	0.045	0.075	0.032	0.074	0.043	0.044	0.014	0.015	<0.0050	0.023	0.013
DMW-7/DRW-1	9.8	16	10	12	1.4	10	9.4	19	13	11	6.6	17	15
DMW-8/DRW-2	51	35	9.4	46	5.7	9.6	7.6	9.5	8.1	10	NS (10)	NS (10)	NS (10)
DMW-9/DRW-3	40	17	7.3	9.0	4.9	6.5	7.1	6.6	4.3	3.5	0.11	2.7	5.7
MW-22D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11	0.14	0.097
OBG-W1	NA	NA	NA	NA	NA	NA	NA	NA	0.49	0.14	0.45	0.31	0.33
OBG-W2	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W7	NA	NA	NA	NA	NA	NA	NA	NA	0.11	1.8	1.8	3.7	3.0
Fire Release Area													
AMW-1	<2.5	0.011	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0024	<10	<0.50	<0.25	<0.0010
AMW-10	<2.5	<0.0050	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.25	<0.0010
AMW-11D	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-12	<0.50 (0.092)	NS (0.080)	NS (0.069)	0.057	0.093	<0.047	<0.59	0.094	0.042	0.029	<2.5 (0.043)	<0.25 (0.050)	0.057
AMW-13	<2.5 (0.033)	0.037	<0.010	0.017	0.0060	<0.15	<0.59	0.0057	0.0018	<0.010	<0.0050	<0.050	<0.0010
AMW-14	<0.50	<0.0050	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-15	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-16	<0.0050	0.0080	<0.10 (0.011)	0.013	0.016	0.0095	0.014	0.018	0.0038	0.0039	<0.0050	0.0030	0.0032
AMW-17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0018	<0.0010	NS (<0.0010)	NS (<0.0010)	0.0018
AMW-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-19	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-2	<0.0050	NS (<0.0050)	<0.10	<0.0050	<0.0050	0.0051	0.0054	0.013	<0.010 (0.0081)	0.0012	<0.50	<0.0050	<0.0010
AMW-20	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (<0.0050)	<0.0010	<0.0010	<0.0050	<0.0050	<0.0010
AMW-21	<2.5	0.0066	<0.50	<0.0050	<0.0050	<0.0050	<0.59	<0.0050	<0.050	<0.010	<0.0050	<0.25	<0.0010
AMW-3	<0.25	<0.0050	<0.050	<0.0050	<0.0050	<0.047	<0.0050	NS (<0.0050)	<0.0010	<0.010	<0.0050	<0.25	<0.10
AMW-4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.016	0.011	<0.012 (0.0077)	0.0043	0.0026	NS (0.0018)	NS (0.0014)	<0.0010
AMW-7	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0013	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
AMW-8	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<0.0010	<0.0010	<0.050	<0.0050	<0.050
AMW-9	<0.0050	0.010	<0.10 (0.0075)	<0.0050	<0.0050	0.026	<0.59 (0.023)	0.019	<0.10 (0.010)	NS (<0.10)	NS (<0.10)	NS (<0.10)	NS (<0.10)
ARW-1	NS (0.0061)	NS (0.0068)	NS (0.0075)	NS (0.0082)	NS (0.0089)	NS (0.0096)	NS (0.010)	0.011	0.012	0.012	<0.50 (0.012)	<0.25 (0.012)	<2.0 (0.012)
ARW-2	NS (0.0070)	NS (0.0083)	NS (0.0096)	NS (0.011)	NS (0.012)	NS (0.013)	NS (0.015)	0.016	0.066	0.024	0.018	0.017	0.038
ARW-3	NS	NS	NS	NS	NS	NS	NS	<0.0050	<0.0010	<0.010	<0.0050	<0.0050	<0.0010
ARW-4	NS (0.053)	NS (0.046)	NS (0.039)	NS (0.032)	NS (0.026)	NS (0.019)	NS (0.012)	<0.0050	<0.10	NS (<0.0050)	NS (<0.0050)	NS (<0.0050)	<4.0
DMW-12	<2.5 (0.029)	0.019	<0.10 (0.020)	0.020	<0.0050	<0.047 (0.019)	<0.59 (0.033)	0.047	<0.10 (0.034)	0.015	0.020	<0.25 (0.020)	<5.0 (0.020)
DMW-13	NA	NA	0.012	0.023	<0.0050	<0.0050	0.0096	0.012	0.0080	0.0054	NS (0.0053)	NS (0.0053)	0.0053
DMW-14D	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-15	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
DMW-3	0.63	0.37	0.23	0.50	0.28	0.38	0.35	0.29	0.22	0.21	NS (0.20)	NS (0.19)	0.18
DMW-5	0.10	0.095	0.13	0.051	0.10	0.082	0.078	0.067	0.062	0.044	NS (0.036)	NS (0.032)	0.029
MW-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.040	0.0015	<0.0010
OBG-W3	NA	NA	NA	NA	NA	NA	NA	NA	0.0025	0.0017	NS (0.0020)	NS (0.0021)	0.0022
OBG-W4	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010
OBG-W5	NA	NA	NA	NA	NA	NA	NA	NA	0.0015	<0.010	<0.050	<0.0050	0.0014
OBG-W8	NA	NA	NA	NA	NA	NA	NA	NA	<0.0010	<0.0010	NS (<0.0010)	NS (<0.0010)	<0.0010

Notes:

All concentrations in mg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

Well not installed. Extrapolated from a sampling event.

Non-Sampled Well

Earthcon Consultants, Inc.
1880 West Oak Parkway P: 770-973-2100
Building 100, Suite 106 F: 770-973-7395
Marietta, GA 30062 www.earthcon.com

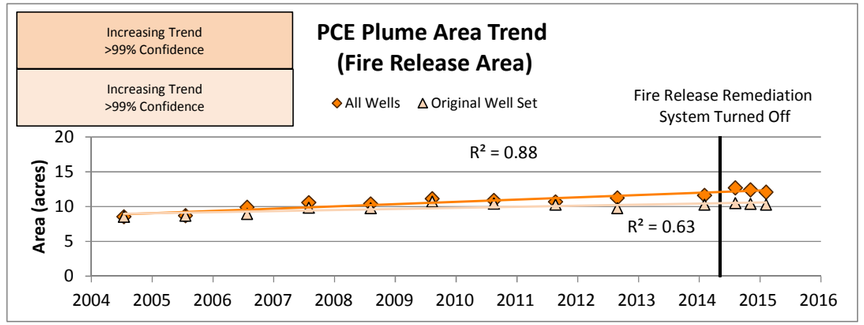
FIGURES

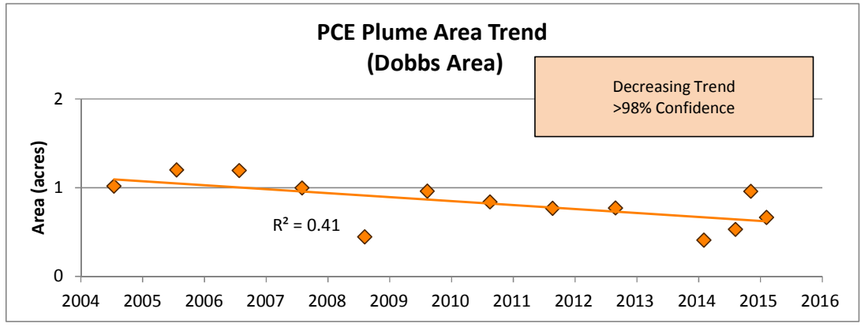
Summary of PCE Plume Stability Characteristics (Fire Release Area)

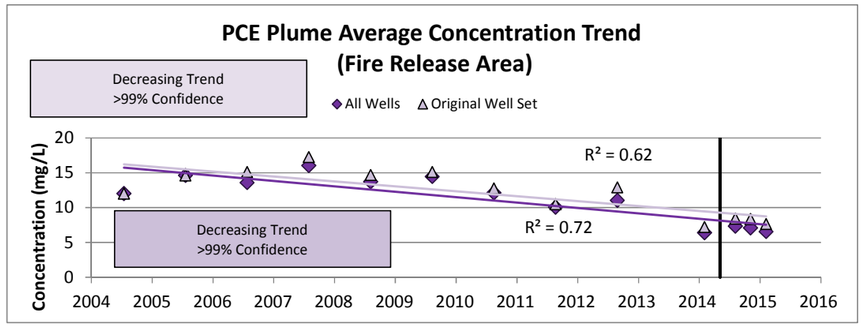
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	8.54	12.00	1615.82
2006	8.70	14.60	2002.96
2007	9.89	13.57	2115.95
2008	10.57	16.03	2671.42
2009	10.38	13.72	2246.15
2010	11.13	14.45	2537.56
2011	10.90	12.13	2084.99
2012	10.68	10.04	1690.98
2013	11.25	11.01	1953.69
Jun-14	11.60	6.39	1169.32
Dec-14	12.67	7.33	1465.70
Mar-15	12.40	7.07	1382.06
Jun-15	12.07	6.56	1248.16

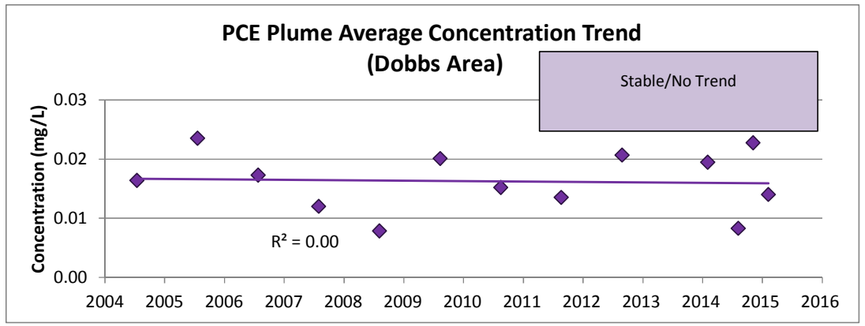
Summary of PCE Plume Stability Characteristics (Dobbs Area)

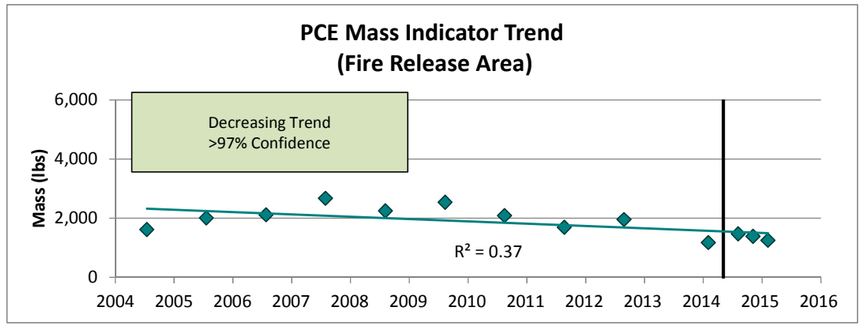
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	1.02	0.02	0.26
2006	1.20	0.02	0.45
2007	1.19	0.02	0.33
2008	1.00	0.01	0.19
2009	0.45	0.01	0.06
2010	0.96	0.02	0.31
2011	0.84	0.02	0.20
2012	0.77	0.01	0.16
2013	0.77	0.02	0.25
Jun-14	0.41	0.02	0.13
Dec-14	0.53	0.01	0.07
Mar-15	0.96	0.02	0.34
Jun-15	0.67	0.01	0.15

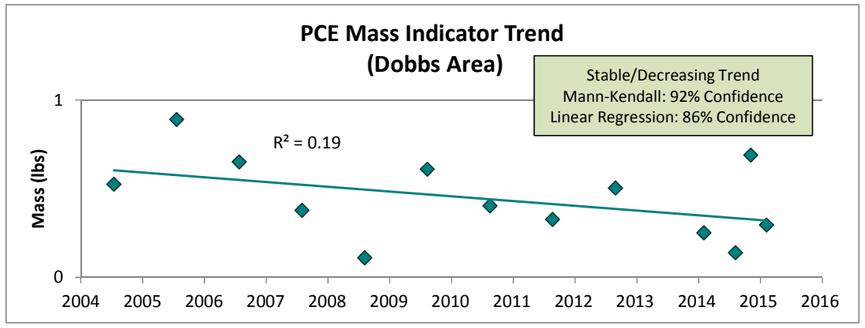












PCE Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	64	>99%	0.12	Increasing Trend
Plume Average Concentration	13	-48	>99%	0.30	Decreasing Trend
Plume Mass Indicator	13	-36	98%	0.26	Decreasing Trend

PCE Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-42	>99%	0.31	Decreasing Trend
Plume Average Concentration	13	-2	52%	0.31	Stable/No Trend
Plume Mass Indicator	13	-24	92%	0.51	Decreasing Trend

PCE Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.327	0.88	>99%	0.12	Increasing Trend
Plume Average Concentration	13	-0.78	0.72	>99%	0.30	Decreasing Trend
Plume Mass Indicator	13	-79.8	0.37	97.3%	0.26	Decreasing Trend

PCE Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.05	0.41	98.1%	0.31	Decreasing Trend
Plume Average Concentration	13	0	0.00	14.3%	0.31	Stable/No Trend
Plume Mass Indicator	13	-0.01	0.19	86.3%	0.51	Stable/No Trend

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Plume Stability Analysis Summary
Tetrachloroethene (PCE)

Prepared by: SNW Checked by: TOG Figure: 1

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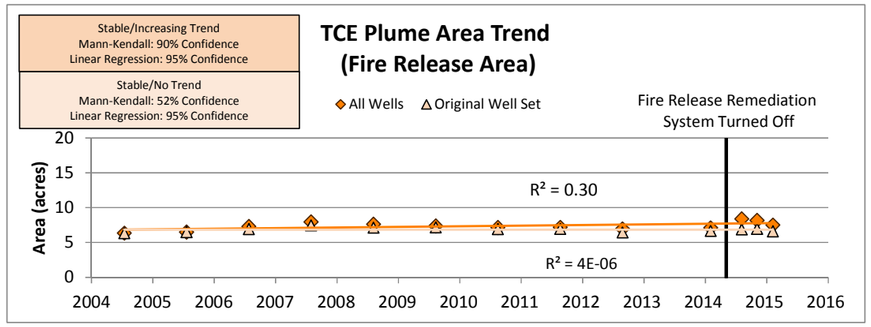
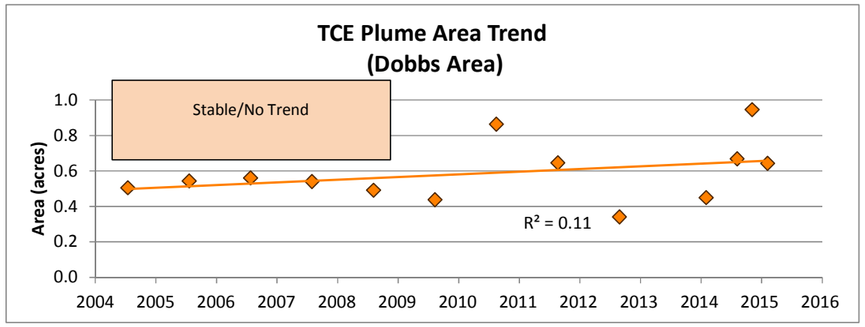
Summary of TCE Plume Stability Characteristics (Fire Release Area)

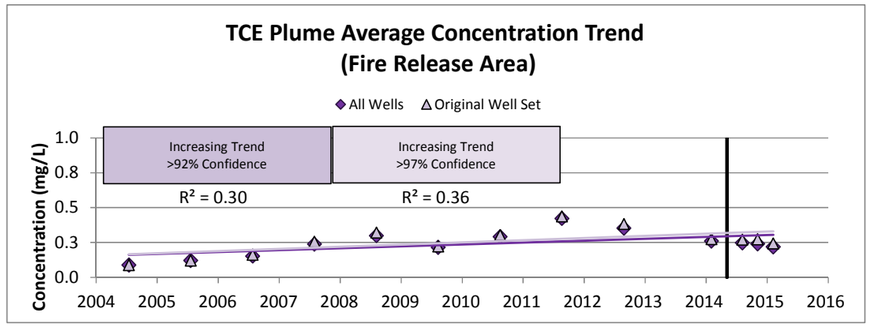
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	6.35	0.09	8.98
2006	6.50	0.12	12.40
2007	7.31	0.15	17.70
2008	7.98	0.24	30.01
2009	7.65	0.30	36.07
2010	7.37	0.22	24.99
2011	7.17	0.29	33.03
2012	7.19	0.42	48.00
2013	6.97	0.35	38.95
Jun-14	7.10	0.26	29.16
Dec-14	8.40	0.25	32.82
Mar-15	8.19	0.24	31.18
Jun-15	7.50	0.22	26.03

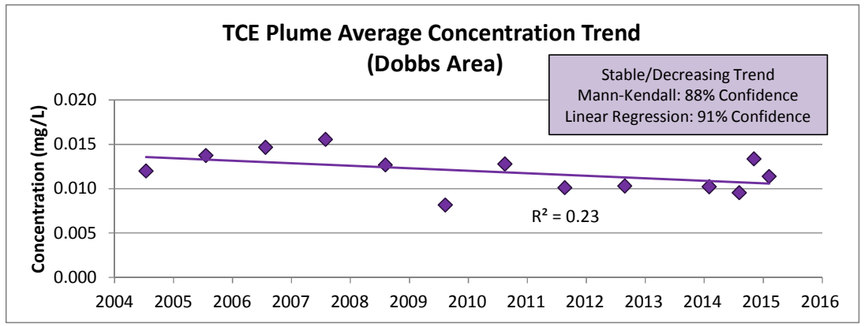
Summary of TCE Plume Stability Characteristics (Dobbs Area)

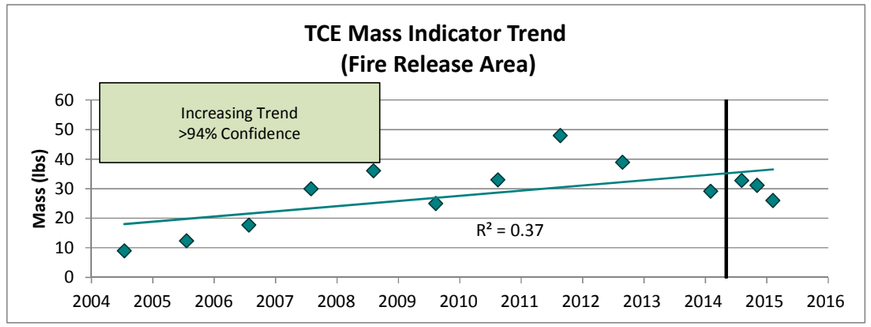
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	0.50	0.01	0.10
2006	0.54	0.01	0.12
2007	0.56	0.01	0.13
2008	0.54	0.02	0.13
2009	0.49	0.01	0.10
2010	0.44	0.01	0.06
2011	0.86	0.01	0.17
2012	0.65	0.01	0.10
2013	0.34	0.01	0.06
Jun-14	0.45	0.01	0.07
Dec-14	0.67	0.01	0.10
Mar-15	0.95	0.01	0.20
Jun-15	0.64	0.01	0.12

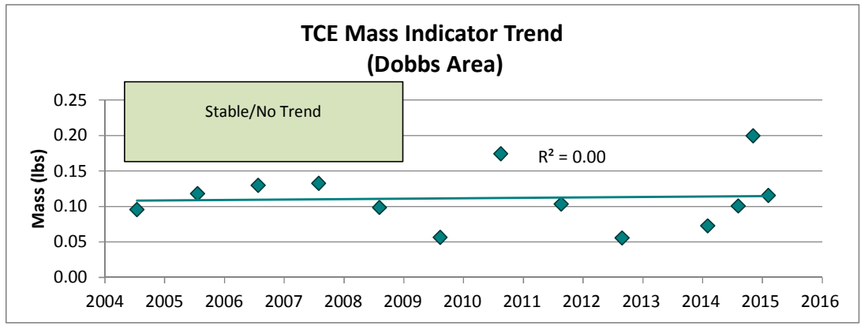












TCE Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	22	90%	0.08	Stable/No Trend
Plume Average Concentration	13	24	92%	0.37	Increasing Trend
Plume Mass Indicator	13	26	94%	0.38	Increasing Trend

TCE Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	14	79%	0.29	Stable/No Trend
Plume Average Concentration	13	-20	88%	0.18	Stable/No Trend
Plume Mass Indicator	13	4	57%	0.37	Stable/No Trend

TCE Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.09	0.30	94.8%	0.08	Increasing Trend
Plume Average Concentration	13	0.014	0.30	95.0%	0.37	Increasing Trend
Plume Mass Indicator	13	1.782	0.37	97.2%	0.38	Increasing Trend

TCE Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.015	0.11	73.4%	0.29	Stable/No Trend
Plume Average Concentration	13	0	0.23	90.5%	0.18	Decreasing Trend
Plume Mass Indicator	13	0.001	0.00	13.9%	0.37	Stable/No Trend

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Plume Stability Analysis Summary
Trichloroethene (TCE)

Prepared by: SNW Checked by: TOG Figure: 2

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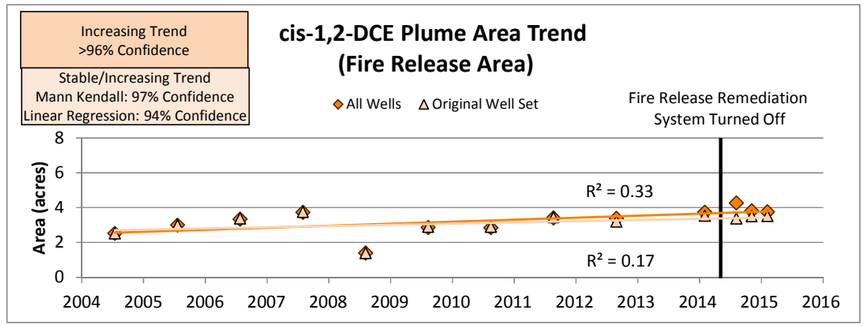
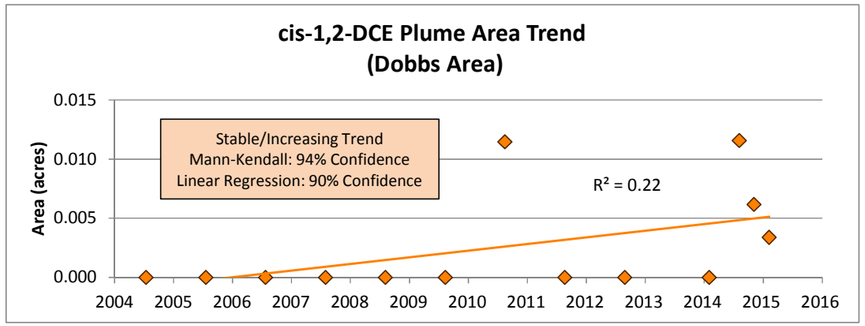
Summary of CIS Plume Stability Characteristics (Fire Release Area)

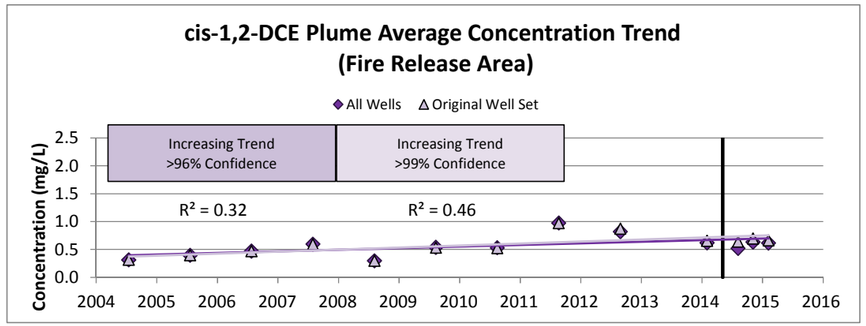
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	2.52	0.31	15.05
2006	3.01	0.40	22.69
2007	3.34	0.47	30.01
2008	3.73	0.59	42.20
2009	1.39	0.30	7.92
2010	2.86	0.54	29.33
2011	2.86	0.53	28.96
2012	3.42	0.98	63.62
2013	3.38	0.82	52.75
Jun-14	3.74	0.62	44.09
Dec-14	4.28	0.52	42.42
Mar-15	3.82	0.63	46.07
Jun-15	3.77	0.62	44.13

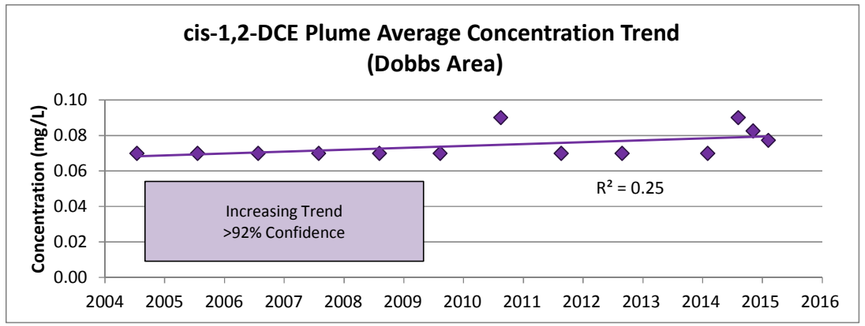
Summary of CIS Plume Stability Characteristics (Dobbs Area)

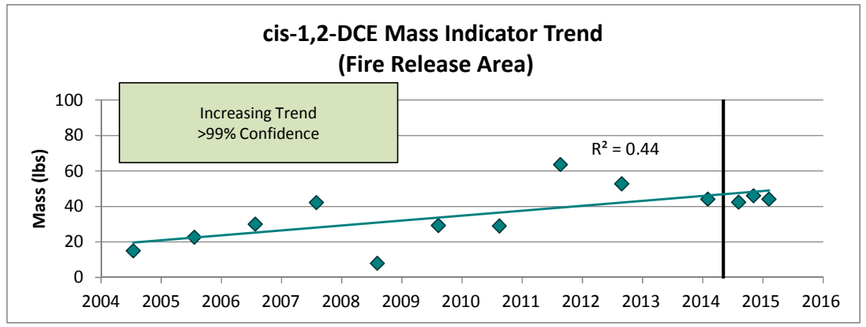
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	0.00	<0.07	0.00
2006	0.00	<0.07	0.00
2007	0.00	<0.07	0.00
2008	0.00	<0.07	0.00
2009	0.00	<0.07	0.00
2010	0.00	<0.07	0.00
2011	0.01	0.09	0.02
2012	0.00	<0.07	0.00
2013	0.00	<0.07	0.00
Jun-14	0.00	<0.07	0.00
Dec-14	0.01	0.09	0.02
Mar-15	0.01	0.08	0.01
Jun-15	0.00	0.08	0.00

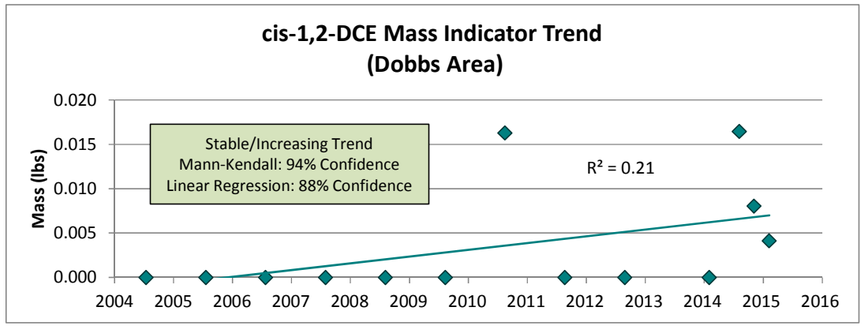












cis-1,2-DCE Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	44	>99%	0.23	Increasing Trend
Plume Average Concentration	13	34	98%	0.33	Increasing Trend
Plume Mass Indicator	13	38	99%	0.43	Increasing Trend

cis-1,2-DCE Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	26	94%	1.76	Increasing Trend
Plume Average Concentration	13	26	94%	0.11	Increasing Trend
Plume Mass Indicator	13	26	94%	1.80	Increasing Trend

cis-1,2-DCE Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.117	0.33	96.2%	0.23	Increasing Trend
Plume Average Concentration	13	0.029	0.32	95.6%	0.33	Increasing Trend
Plume Mass Indicator	13	2.834	0.44	98.7%	0.43	Increasing Trend

cis-1,2-DCE Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.001	0.22	89.7%	1.76	Stable/No Trend
Plume Average Concentration	13	0.001	0.25	92.1%	0.11	Increasing Trend
Plume Mass Indicator	13	0.001	0.21	88.1%	1.80	Stable/No Trend

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Plume Stability Analysis Summary
cis-1,2-Dichloroethene
(cis-1,2-DCE)

Prepared by: SNW Checked by: TOG Figure: 3

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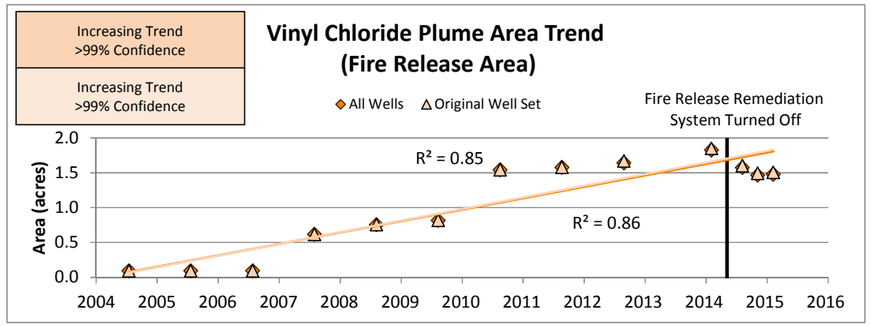
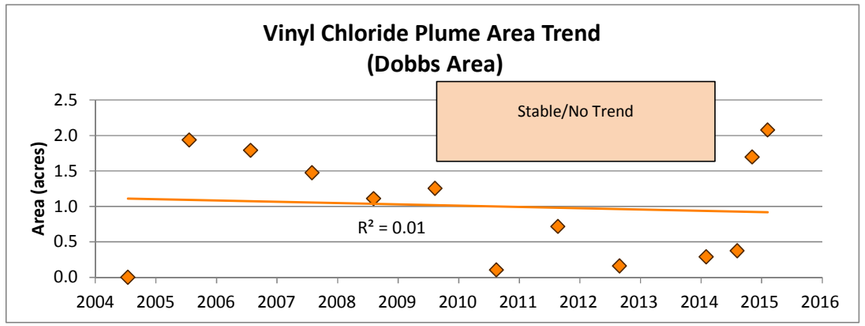
Summary of VC Plume Stability Characteristics (Fire Release Area)

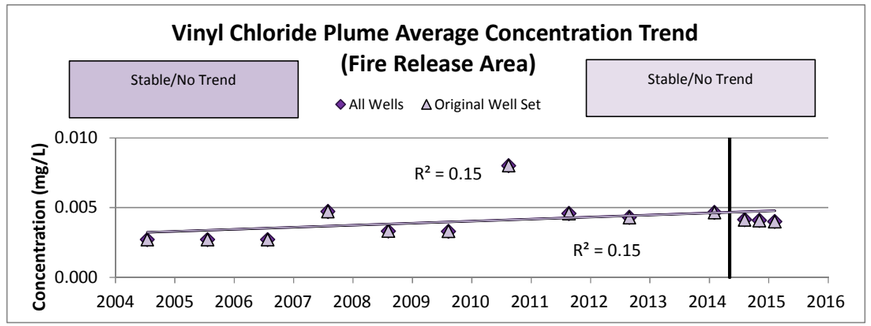
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	0.10	0.00	0.00
2006	0.10	0.00	0.00
2007	0.10	0.00	0.00
2008	0.62	0.00	0.05
2009	0.76	0.00	0.04
2010	0.82	0.00	0.04
2011	1.55	0.01	0.20
2012	1.58	0.00	0.11
2013	1.65	0.00	0.11
Jun-14	1.83	0.00	0.13
Dec-14	1.58	0.00	0.10
Mar-15	1.47	0.00	0.09
Jun-15	1.48	0.00	0.09

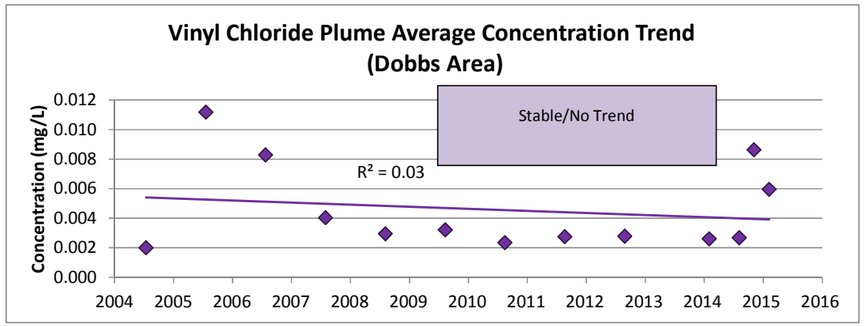
Summary of VC Plume Stability Characteristics (Dobbs Area)

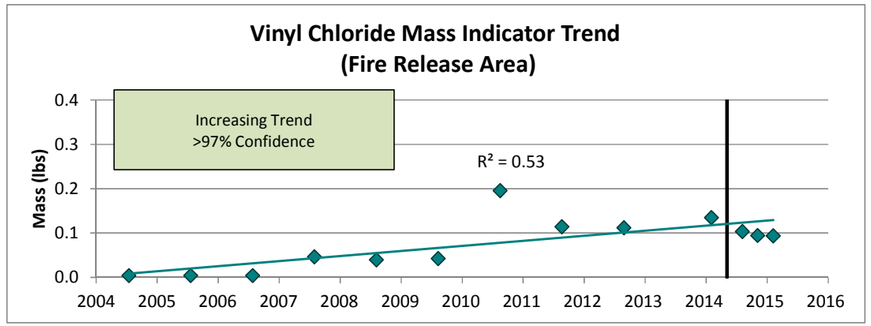
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	0.00	0.00	0.00
2006	1.94	0.01	0.34
2007	1.79	0.01	0.23
2008	1.48	0.00	0.09
2009	1.11	0.00	0.05
2010	1.25	0.00	0.06
2011	0.11	0.00	0.00
2012	0.72	0.00	0.03
2013	0.16	0.00	0.01
Jun-14	0.29	0.00	0.01
Dec-14	0.38	0.00	0.02
Mar-15	1.70	0.01	0.23
Jun-15	2.08	0.01	0.20

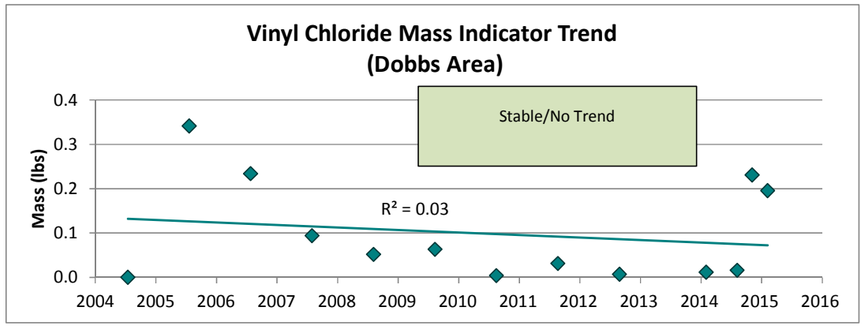












Vinyl Chloride Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	49	>99%	0.63	Increasing Trend
Plume Average Concentration	13	19	86%	0.34	Stable/No Trend
Plume Mass Indicator	13	33	97%	0.77	Increasing Trend

Vinyl Chloride Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0	50%	0.76	Stable/No Trend
Plume Average Concentration	13	-6	62%	0.65	Stable/No Trend
Plume Mass Indicator	13	-6	62%	1.15	Stable/No Trend

Vinyl Chloride Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.166	0.85	>99%	0.63	Increasing Trend
Plume Average Concentration	13	0	0.15	81.5%	0.34	Stable/No Trend
Plume Mass Indicator	13	0.012	0.53	>99%	0.77	Increasing Trend

Vinyl Chloride Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.02	0.01	22.6%	0.76	Stable/No Trend
Plume Average Concentration	13	0	0.03	43.2%	0.65	Stable/No Trend
Plume Mass Indicator	13	-0.01	0.03	45.4%	1.15	Stable/No Trend

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Plume Stability Analysis Summary
Vinyl Chloride (VC)

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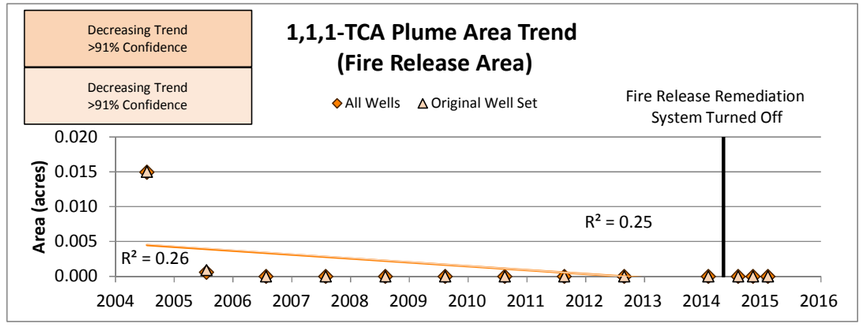
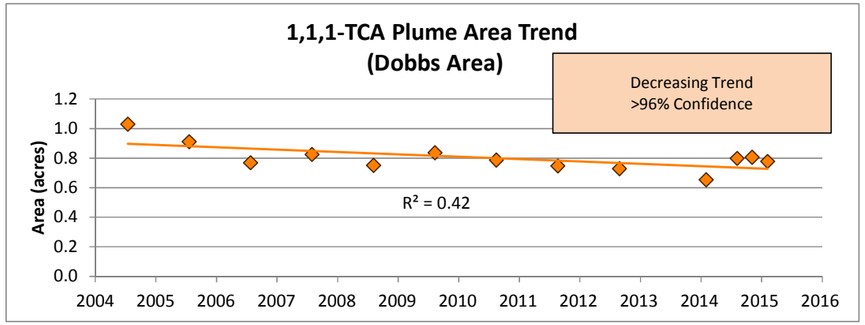
Summary of 1,1,1-TCA Plume Stability Characteristics (Fire Release Area)

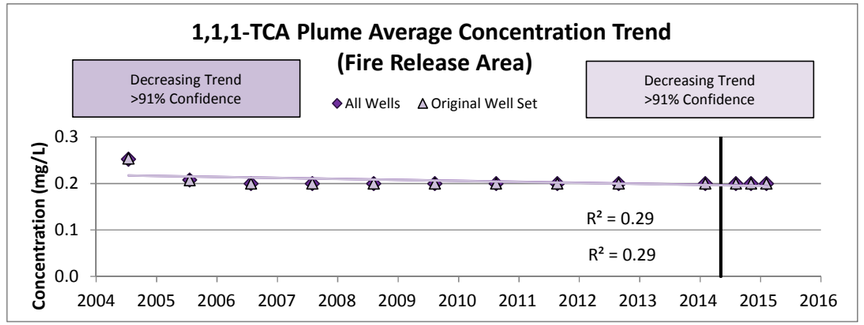
Date	Area (acres)	Average Conc. (mgl/L)	Mass Indicator (lbs)
2005	0.01	0.25	0.06
2006	0.00	0.21	0.00
2007	0.00	<0.2	0.00
2008	0.00	<0.2	0.00
2009	0.00	<0.2	0.00
2010	0.00	<0.2	0.00
2011	0.00	<0.2	0.00
2012	0.00	<0.2	0.00
2013	0.00	<0.2	0.00
Jun-14	0.00	<0.2	0.00
Dec-14	0.00	<0.2	0.00
Mar-15	0.00	<0.2	0.00
Jun-15	0.00	<0.2	0.00

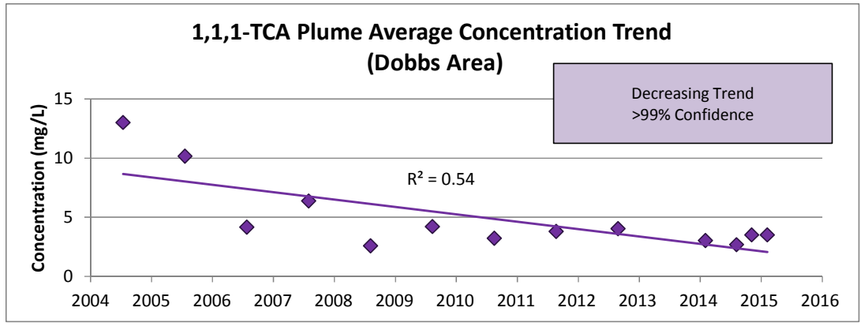
Summary of 1,1,1-TCA Plume Stability Characteristics (Dobbs Area)

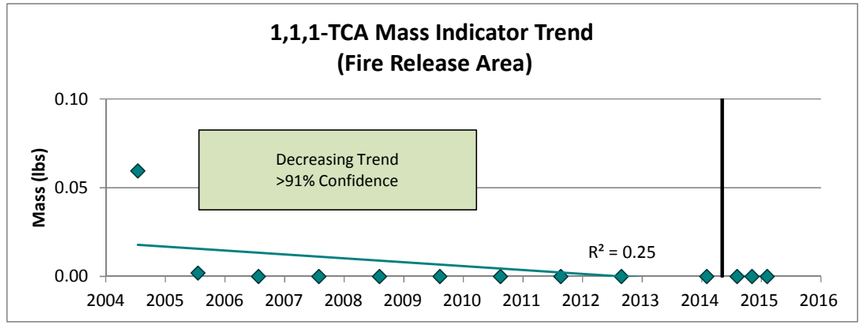
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	1.03	13.02	211.52
2006	0.91	10.18	146.28
2007	0.77	4.16	50.55
2008	0.83	6.38	82.99
2009	0.75	2.58	30.60
2010	0.84	4.23	55.80
2011	0.79	3.23	40.11
2012	0.75	3.81	44.86
2013	0.73	4.05	46.61
Jun-14	0.65	3.03	31.26
Dec-14	0.80	2.68	33.78
Mar-15	0.81	3.51	44.66
Jun-15	0.78	3.52	43.20

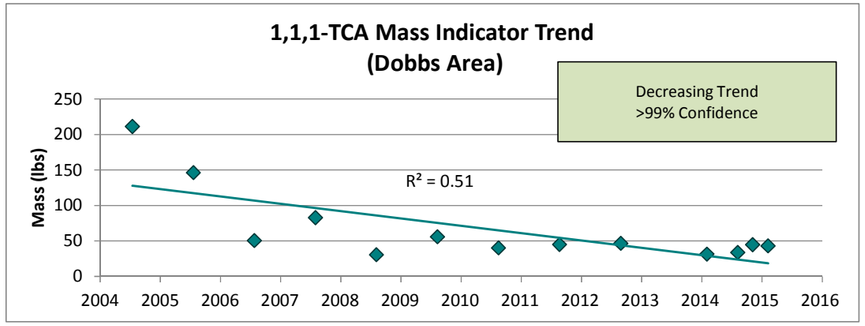












1,1,1-TCA Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-23	91%	3.46	Decreasing Trend
Plume Average Concentration	13	-23	91%	0.07	Decreasing Trend
Plume Mass Indicator	13	-23	91%	3.49	Decreasing Trend

1,1,1-TCA Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-30	96%	0.11	Decreasing Trend
Plume Average Concentration	13	-38	99%	0.64	Decreasing Trend
Plume Mass Indicator	13	-38	99%	0.81	Decreasing Trend

1,1,1-TCA Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0	0.25	91.7%	3.46	Decreasing Trend
Plume Average Concentration	13	0	0.29	94.3%	0.07	Decreasing Trend
Plume Mass Indicator	13	0	0.25	91.5%	3.49	Decreasing Trend

1,1,1-TCA Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.02	0.42	98.3%	0.11	Decreasing Trend
Plume Average Concentration	13	-0.63	0.54	>99%	0.64	Decreasing Trend
Plume Mass Indicator	13	-10.5	0.51	>99%	0.81	Decreasing Trend

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Plume Stability Analysis Summary
1,1,1-Trichloroethane (1,1,1-TCA)

Prepared by: SNW Checked by: TOG Figure: 5

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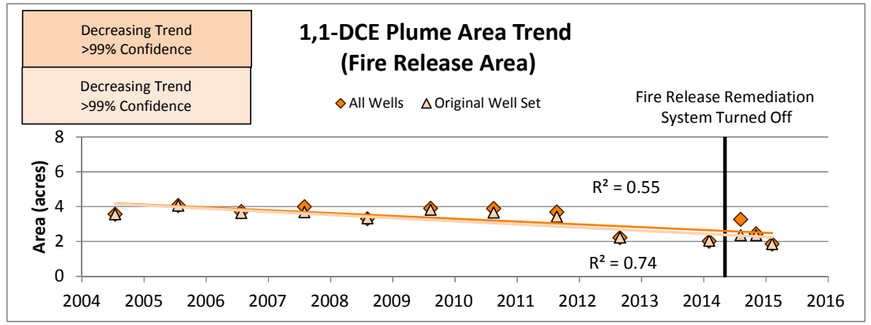
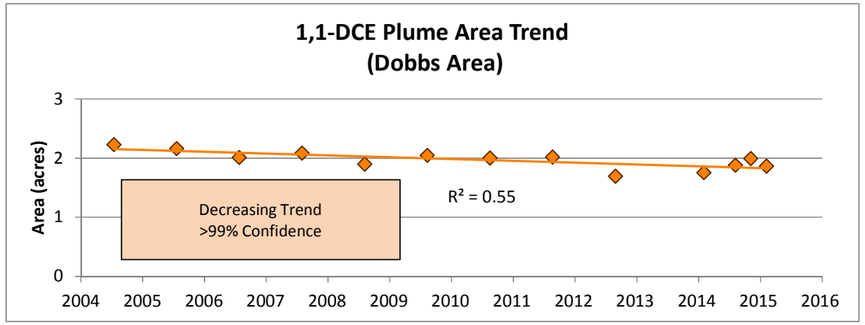
Summary of DCE Plume Stability Characteristics (Fire Release Area)

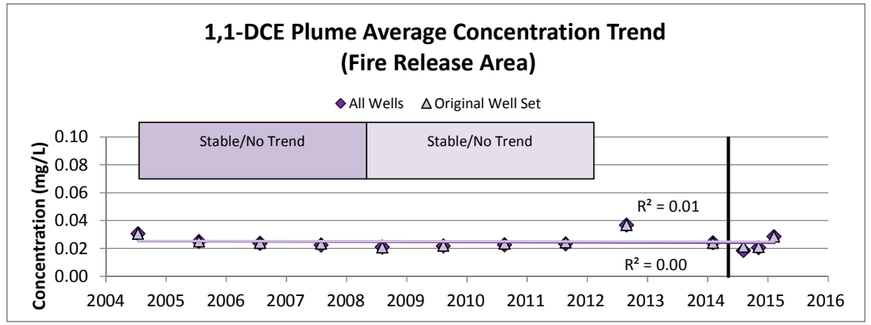
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	3.57	0.03	1.72
2006	4.06	0.03	1.61
2007	3.72	0.02	1.39
2008	4.00	0.02	1.41
2009	3.31	0.02	1.10
2010	3.90	0.02	1.34
2011	3.89	0.02	1.39
2012	3.69	0.02	1.35
2013	2.22	0.04	1.29
Jun-14	2.02	0.02	0.77
Dec-14	3.28	0.02	0.96
Mar-15	2.44	0.02	0.79
Jun-15	1.87	0.03	0.84

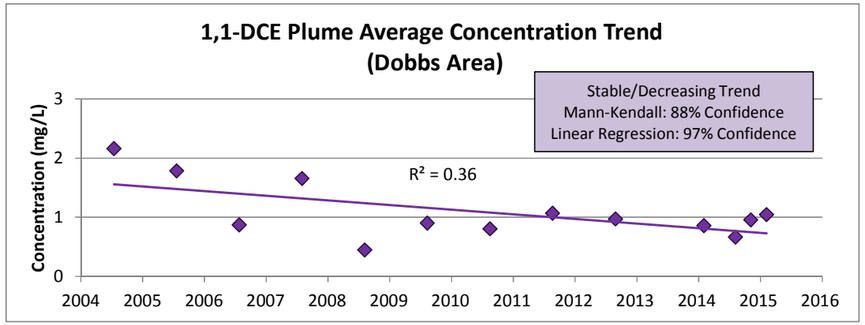
Summary of DCE Plume Stability Characteristics (Dobbs Area)

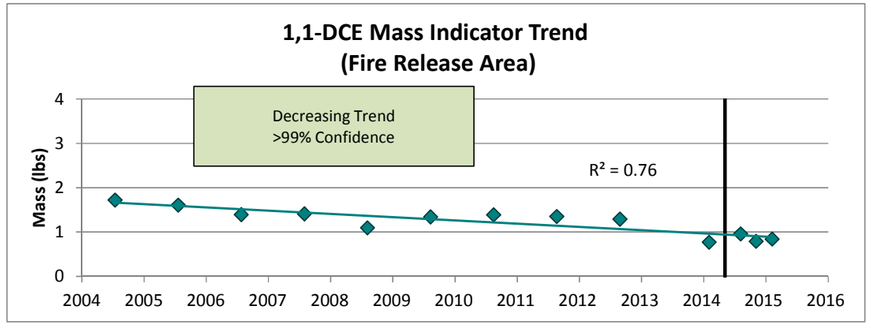
Date	Area (acres)	Average Conc. (mg/L)	Mass Indicator (lbs)
2005	2.23	2.16	76.08
2006	2.16	1.79	60.93
2007	2.01	0.87	27.69
2008	2.09	1.66	54.55
2009	1.90	0.45	13.40
2010	2.05	0.90	29.10
2011	2.00	0.81	25.46
2012	2.02	1.07	33.97
2013	1.69	0.97	26.00
Jun-14	1.76	0.86	23.85
Dec-14	1.88	0.67	19.75
Mar-15	1.99	0.96	30.06
Jun-15	1.86	1.04	30.72

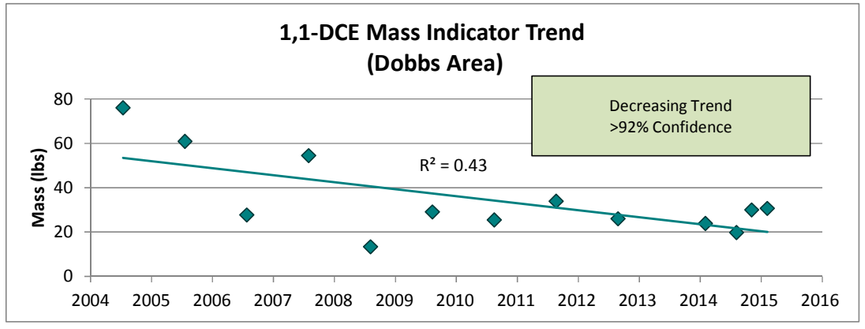












1,1-DCE Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-46	>99%	0.25	Decreasing Trend
Plume Average Concentration	13	-12	75%	0.20	Stable/No Trend
Plume Mass Indicator	13	-56	>99%	0.25	Decreasing Trend

1,1-DCE Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.16	0.55	>99%	0.25	Decreasing Trend
Plume Average Concentration	13	0	0.01	23.0%	0.20	Stable/No Trend
Plume Mass Indicator	13	-0.07	0.76	>99%	0.25	Decreasing Trend

1,1-DCE Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-46	>99%	0.08	Decreasing Trend
Plume Average Concentration	13	-20	88%	0.44	Stable/No Trend
Plume Mass Indicator	13	-24	92%	0.52	Decreasing Trend

1,1-DCE Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.03	0.55	>99%	0.08	Decreasing Trend
Plume Average Concentration	13	-0.08	0.36	97.1%	0.44	Decreasing Trend
Plume Mass Indicator	13	-3.22	0.43	98.5%	0.52	Decreasing Trend

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Plume Stability Analysis Summary
1,1-Dichloroethene (1,1-DCE)

Prepared by: SNW Checked by: TOG Figure: 6

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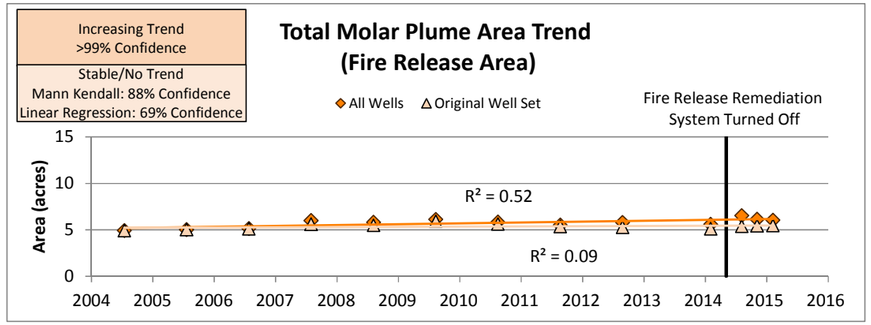
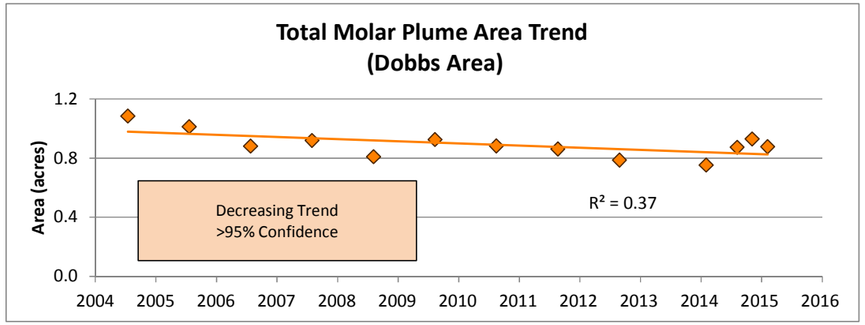
Summary of Total Molar Plume Stability Characteristics (Fire Release Area)

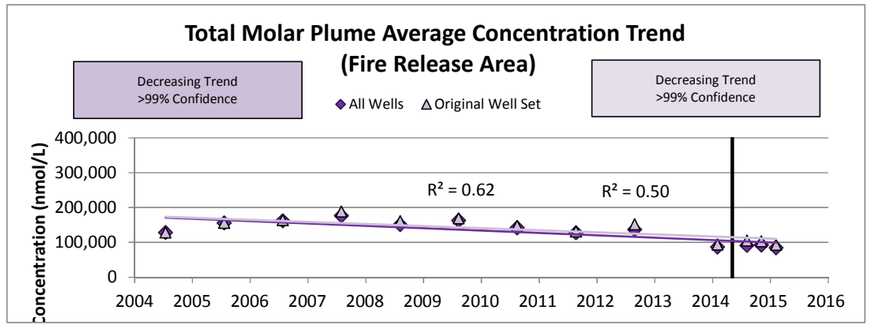
Date	Area (acres)	Average Conc. (nmol/L)	Moles (moles)
2005	4.92	128372.57	4517.81
2006	5.03	156016.59	5616.44
2007	5.15	161980.83	5968.18
2008	6.00	176608.90	7579.67
2009	5.81	151457.52	6300.81
2010	6.12	163083.10	7144.02
2011	5.84	141956.02	5932.98
2012	5.51	127827.68	5037.04
2013	5.79	137219.87	5682.13
Jun-14	5.60	86451.59	3462.82
Dec-14	6.52	91764.47	4281.68
Mar-15	6.13	92529.71	4060.47
Jun-15	6.05	84756.72	3668.25

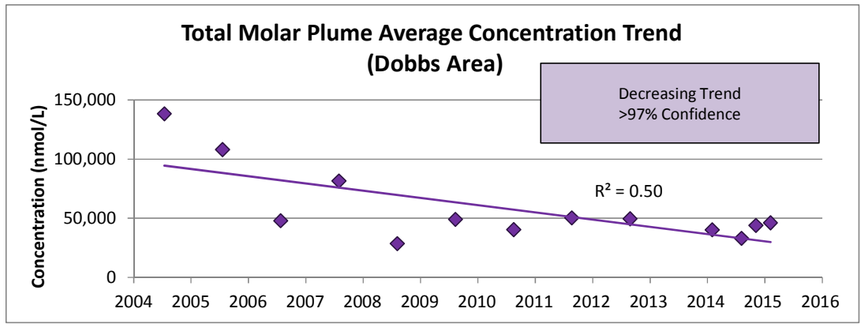
Summary of Total Molar Plume Stability Characteristics (Dobbs Area)

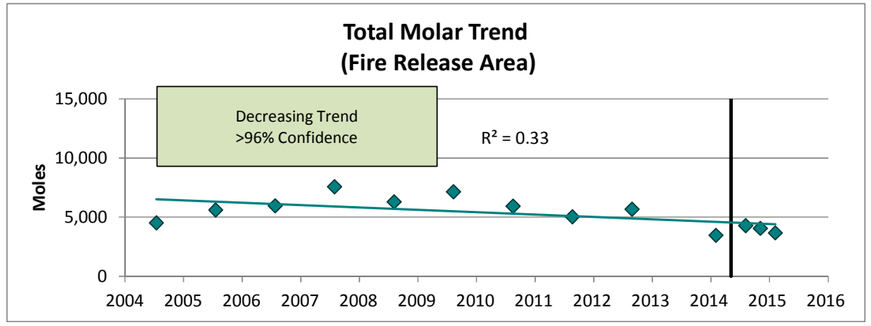
Date	Area (acres)	Average Conc. (nmol/L)	Moles (moles)
2005	1.08	138456.71	1074.56
2006	1.01	108122.11	784.35
2007	0.88	47935.89	302.20
2008	0.92	81542.78	536.88
2009	0.81	28585.62	165.77
2010	0.93	49023.60	325.17
2011	0.88	40383.87	255.15
2012	0.86	50302.14	310.47
2013	0.79	49582.88	279.22
Jun-14	0.75	40205.56	216.79
Dec-14	0.87	33021.47	206.46
Mar-15	0.93	43997.64	293.04
Jun-15	0.88	46254.91	290.67

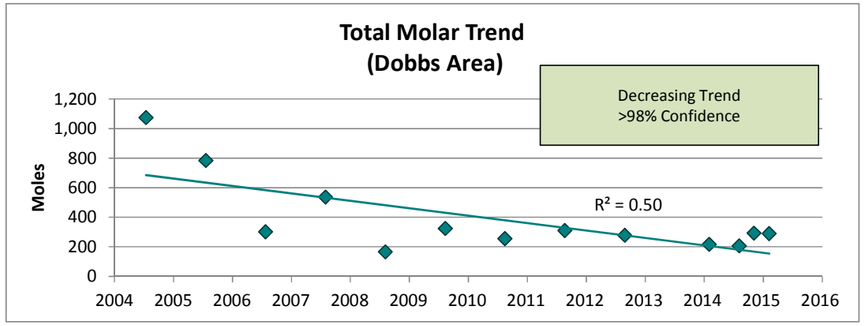












Total Molar Mann-Kendall Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	38	99%	0.08	Increasing Trend
Plume Average Concentration	13	-44	>99%	0.25	Decreasing Trend
Plume Mass Indicator	13	-34	98%	0.24	Decreasing Trend

Total Molar Mann-Kendall Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-28	95%	0.10	Decreasing Trend
Plume Average Concentration	13	-32	97%	0.55	Decreasing Trend
Plume Mass Indicator	13	-36	98%	0.68	Decreasing Trend

Total Molar Linear Regression Trend Analysis Summary (Fire Release Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	0.094	0.52	>99%	0.08	Increasing Trend
Plume Average Concentration	13	-6921	0.62	>99%	0.25	Decreasing Trend
Plume Mass Indicator	13	-203	0.33	95.9%	0.24	Decreasing Trend

Total Molar Linear Regression Trend Analysis Summary (Dobbs Area)

Parameter	# of samples, n	Slope (yr^{-1})	R^2	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	13	-0.01	0.37	97.3%	0.10	Decreasing Trend
Plume Average Concentration	13	-6196.1	0.50	>99%	0.55	Decreasing Trend
Plume Mass Indicator	13	-50.9	0.50	>99%	0.68	Decreasing Trend

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Plume Stability Analysis Summary
Total CVOCs

Prepared by: SNW Checked by: TOG Figure: 7

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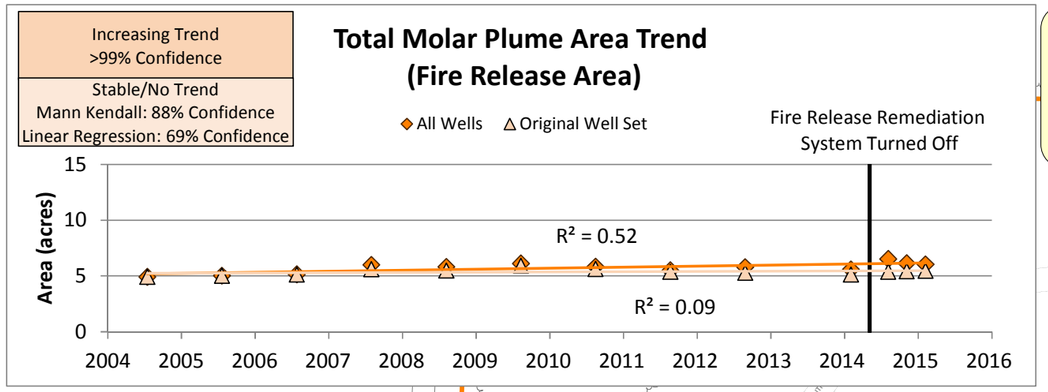
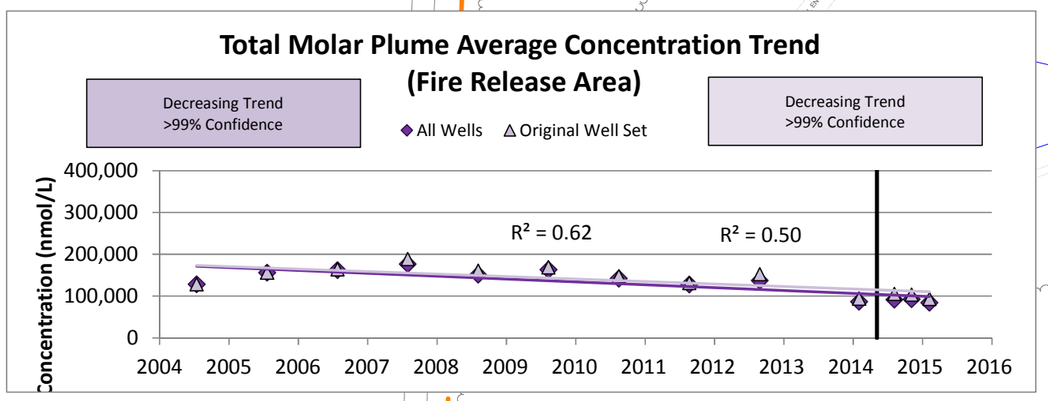
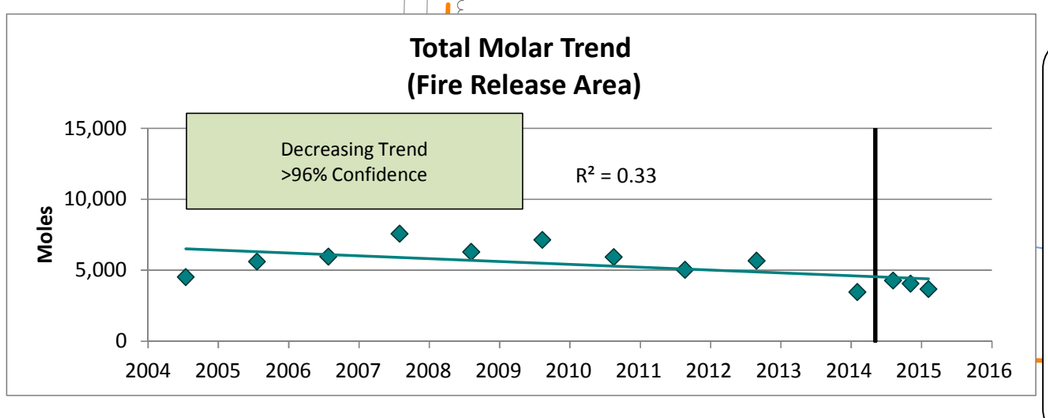






Fire Release Area Total CVOCs
Plume Difference Characteristics:

Plume Area: 23% Increase
Plume Average Concentration: 34% Decrease
Plume Mass Indicator: 19% Decrease

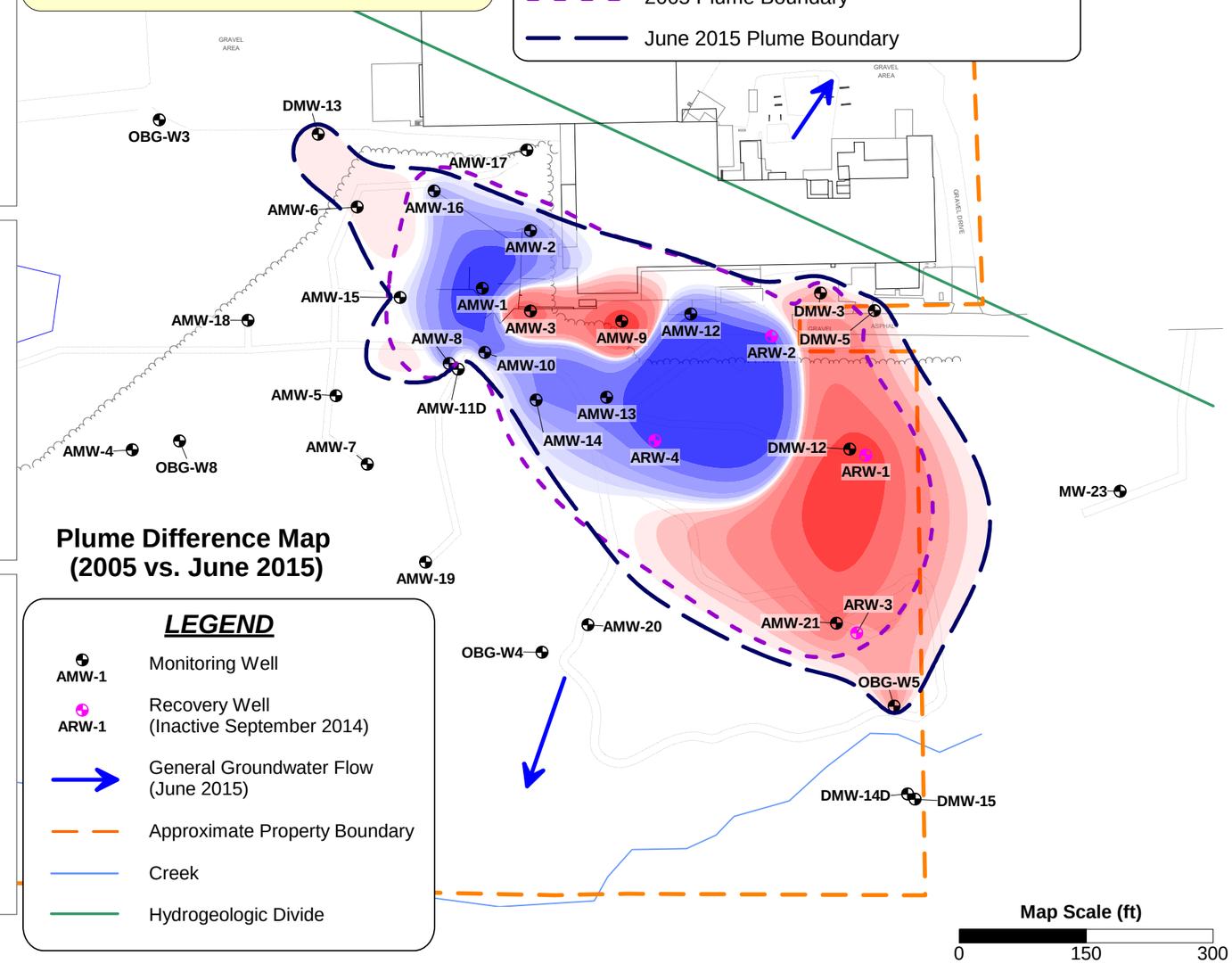
EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE

RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

2005 Plume Boundary

June 2015 Plume Boundary



Plume Difference Map
(2005 vs. June 2015)

LEGEND

- AMW-1 — Monitoring Well
- ARW-1 — Recovery Well (Inactive September 2014)
- General Groundwater Flow (June 2015)
- Approximate Property Boundary
- Creek
- Hydrogeologic Divide

Concentration Difference (nmol/L)

-1000000 -100000 -50000 -20000 -10000 -5000 -2400 2400 5000 10000 20000 50000 100000

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Total CVOCs
Fire Release Area
Plume Stability Analysis Summary
And Plume Difference Map

Prepared by: SNW Checked by: TOG Figure: 8

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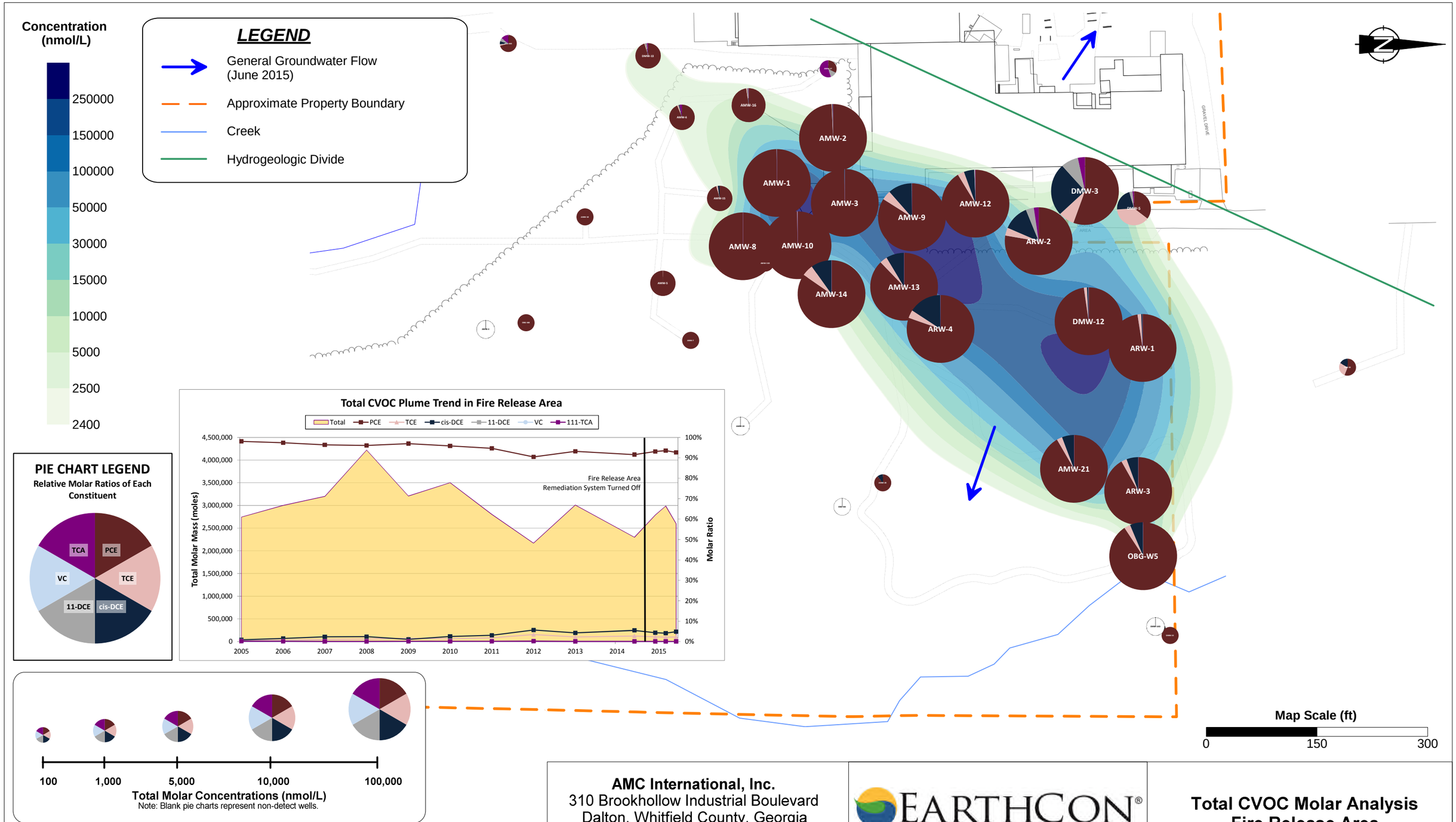

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Total CVOC Molar Analysis
Fire Release Area
June 2015

Prepared by: SNW Checked by: TOG Figure: 9

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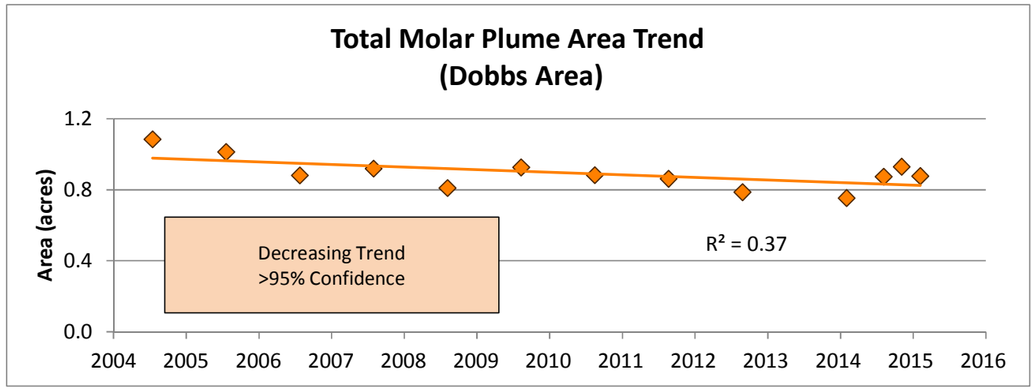
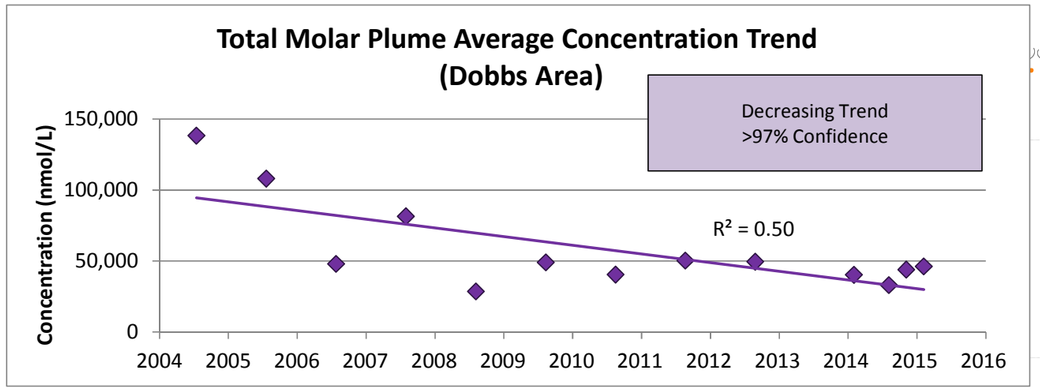
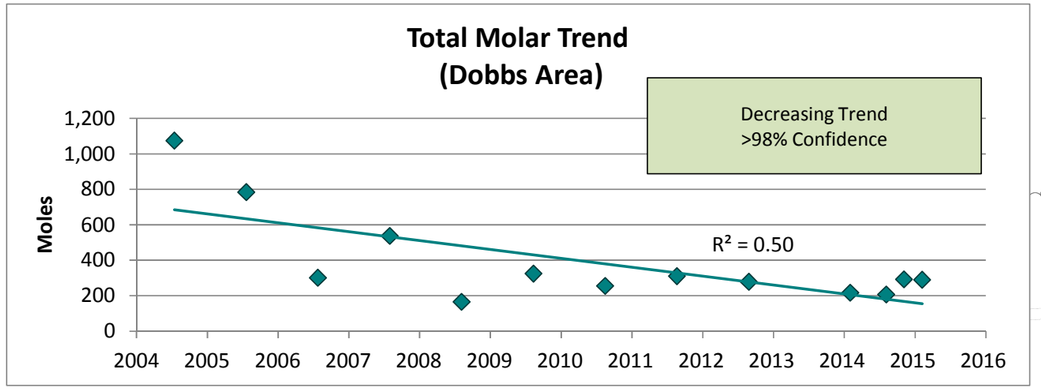






LEGEND

- AMW-1 — Monitoring Well
- ARW-1 — Recovery Well (Inactive September 2014)
- General Groundwater Flow (June 2015)
- Approximate Property Boundary
- Hydrogeologic Divide

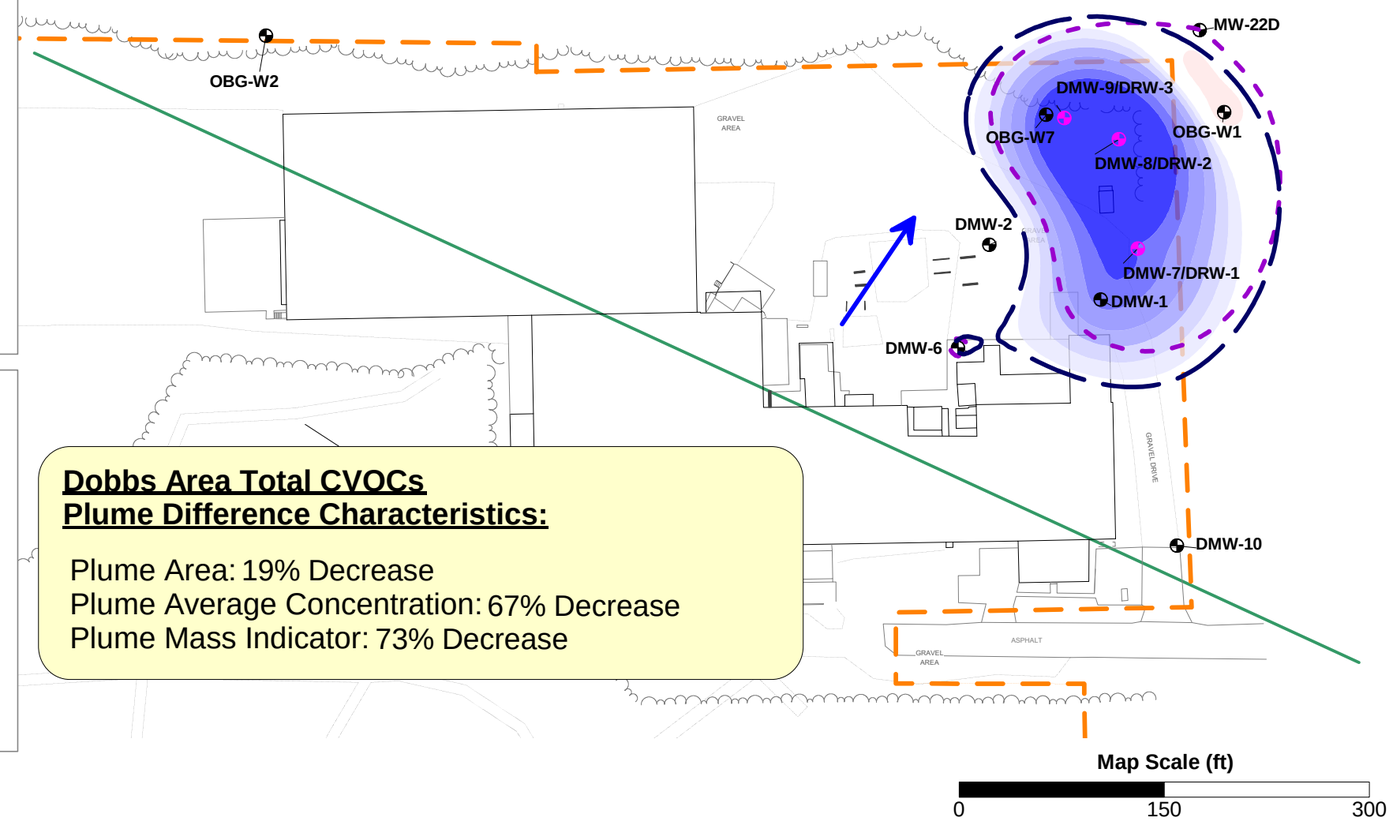
EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE

RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

- 2005 Plume Boundary
- June 2015 Plume Boundary

Plume Difference Map (2005 vs. June 2015)



Dobbs Area Total CVOCs
Plume Difference Characteristics:

Plume Area: 19% Decrease
Plume Average Concentration: 67% Decrease
Plume Mass Indicator: 73% Decrease

Concentration Difference (nmol/L)

-2000000 -100000 -50000 -20000 -10000 -5000 -2400 2400 5000 10000 20000 50000 100000

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Total CVOCs
Dobbs Area
Plume Stability Analysis Summary
And Plume Difference Map

Prepared by: SNW Checked by: TOG Figure: 10

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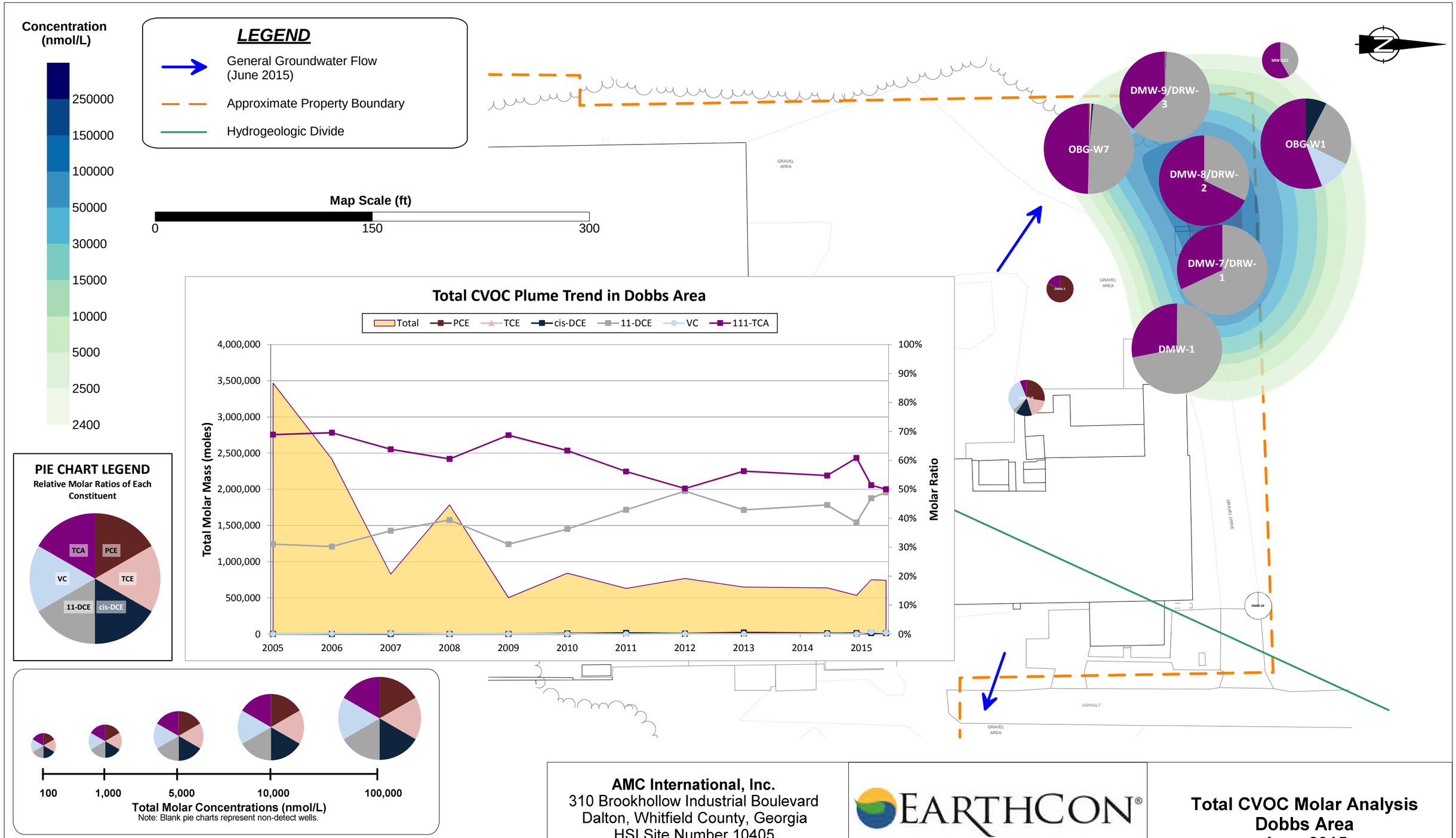

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Total CVOC Molar Analysis
Dobbs Area
June 2015

Prepared by: SNW Checked by: TOG Figure: 11

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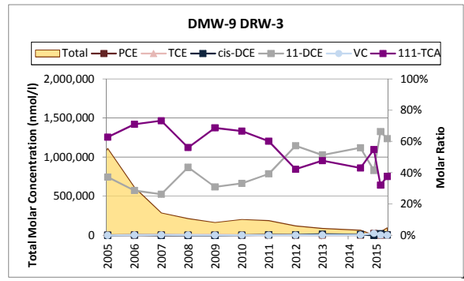
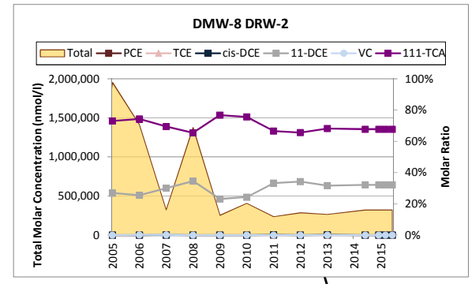
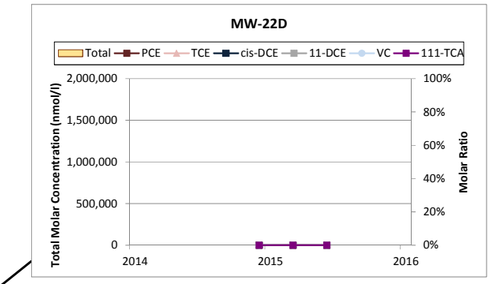
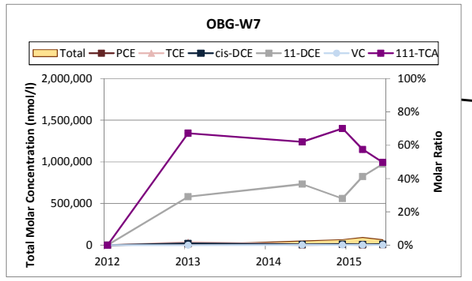
June-2015 Total Molar Concentration (nmol/L)

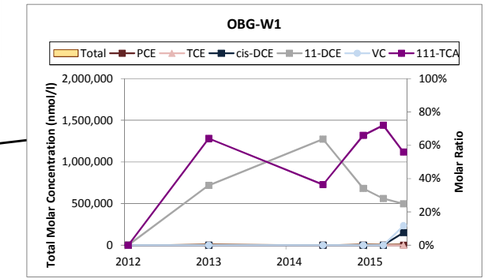
250000
150000
100000
50000
30000
15000
10000
5000
2500
2400

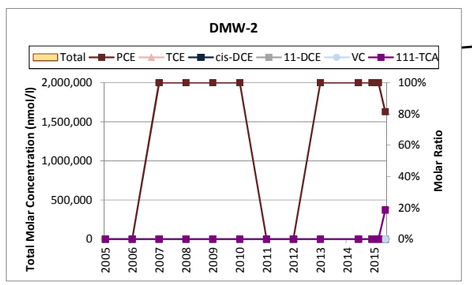


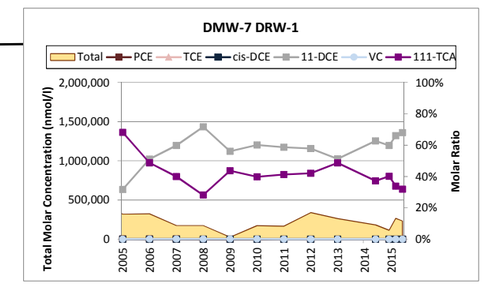


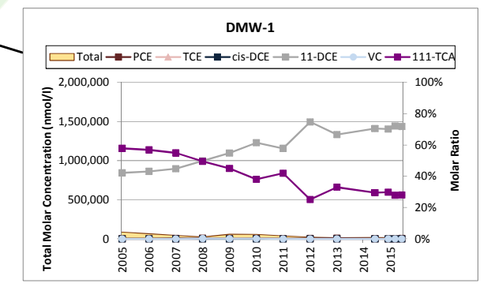


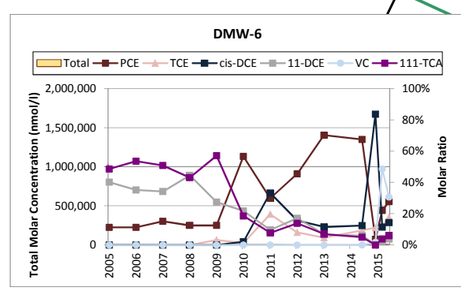


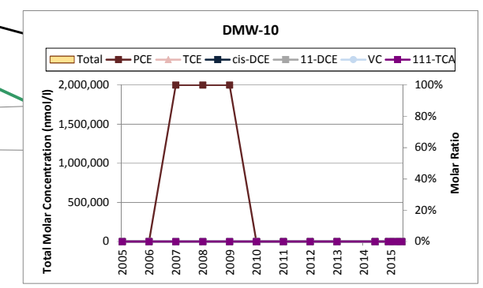


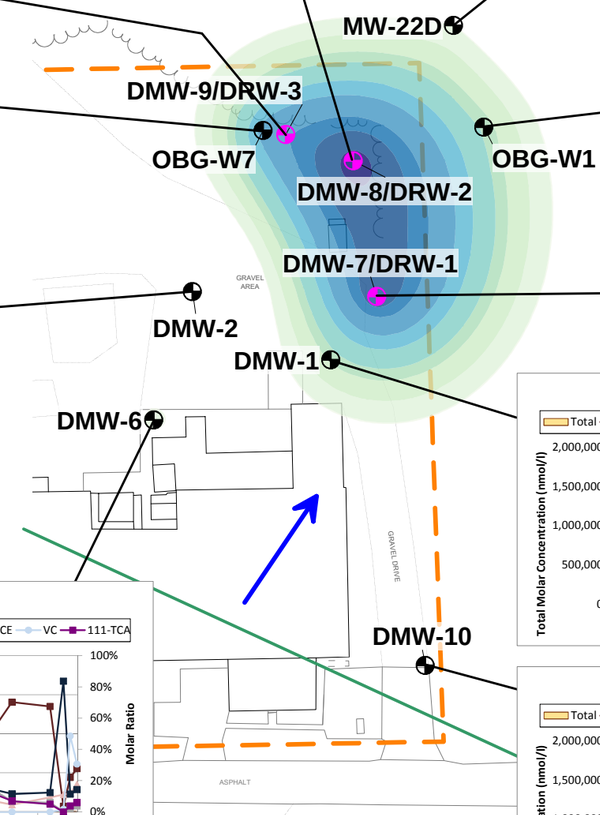












LEGEND

- Monitoring Well
- Recovery Well
- General Groundwater Flow (June 2015)
- Approximate Property Boundary
- Hydrogeologic Divide

Map Scale (ft)

0 150 300

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Well by Well Molar Evaluation
Dobbs Area

Prepared by: SNW Checked by: TOG Figure: 12

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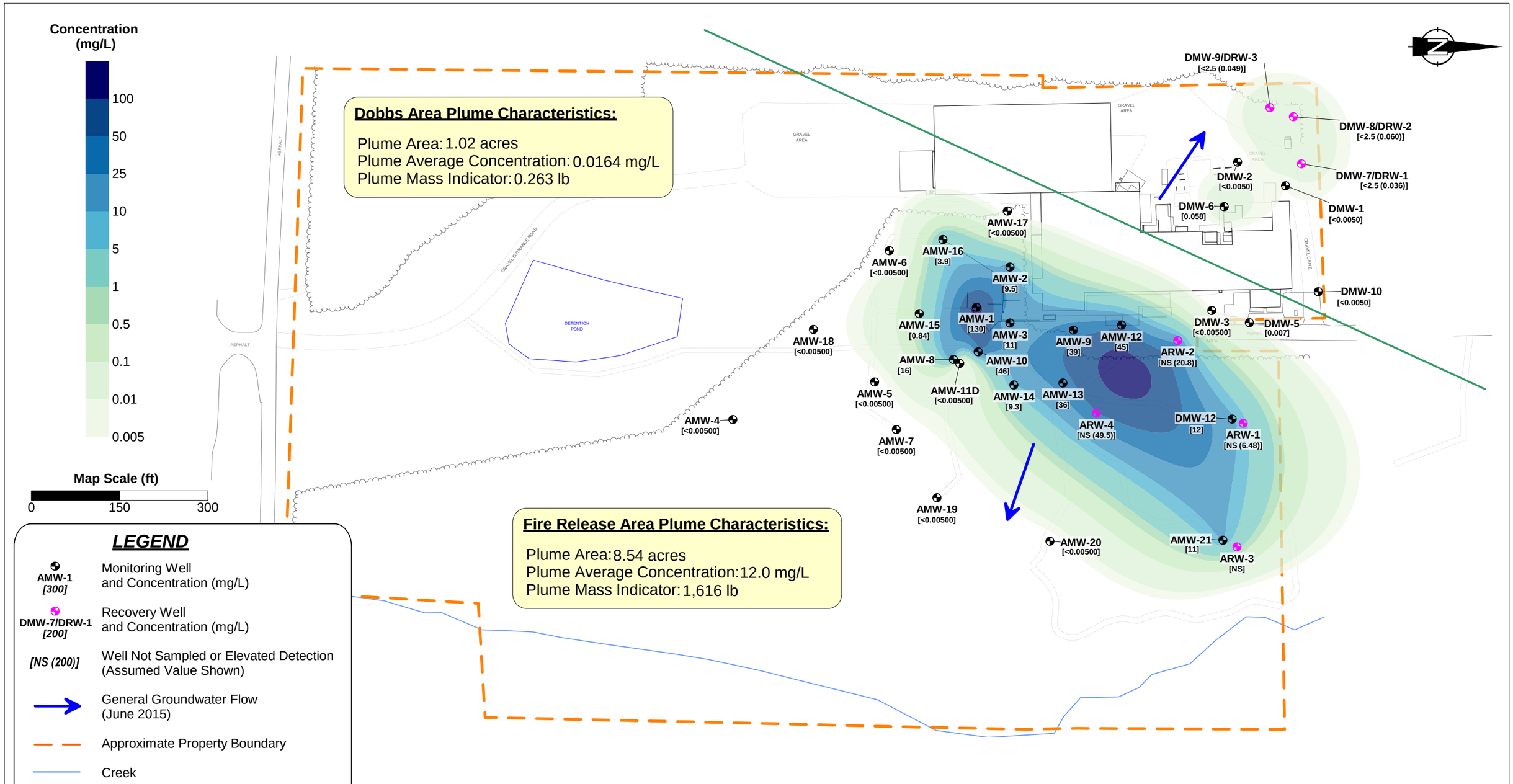
Appendix A
Plume Series Isopleth Maps
Tetrachloroethene (PCE)



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Plume Map
Tetrachloroethene (PCE)
2005

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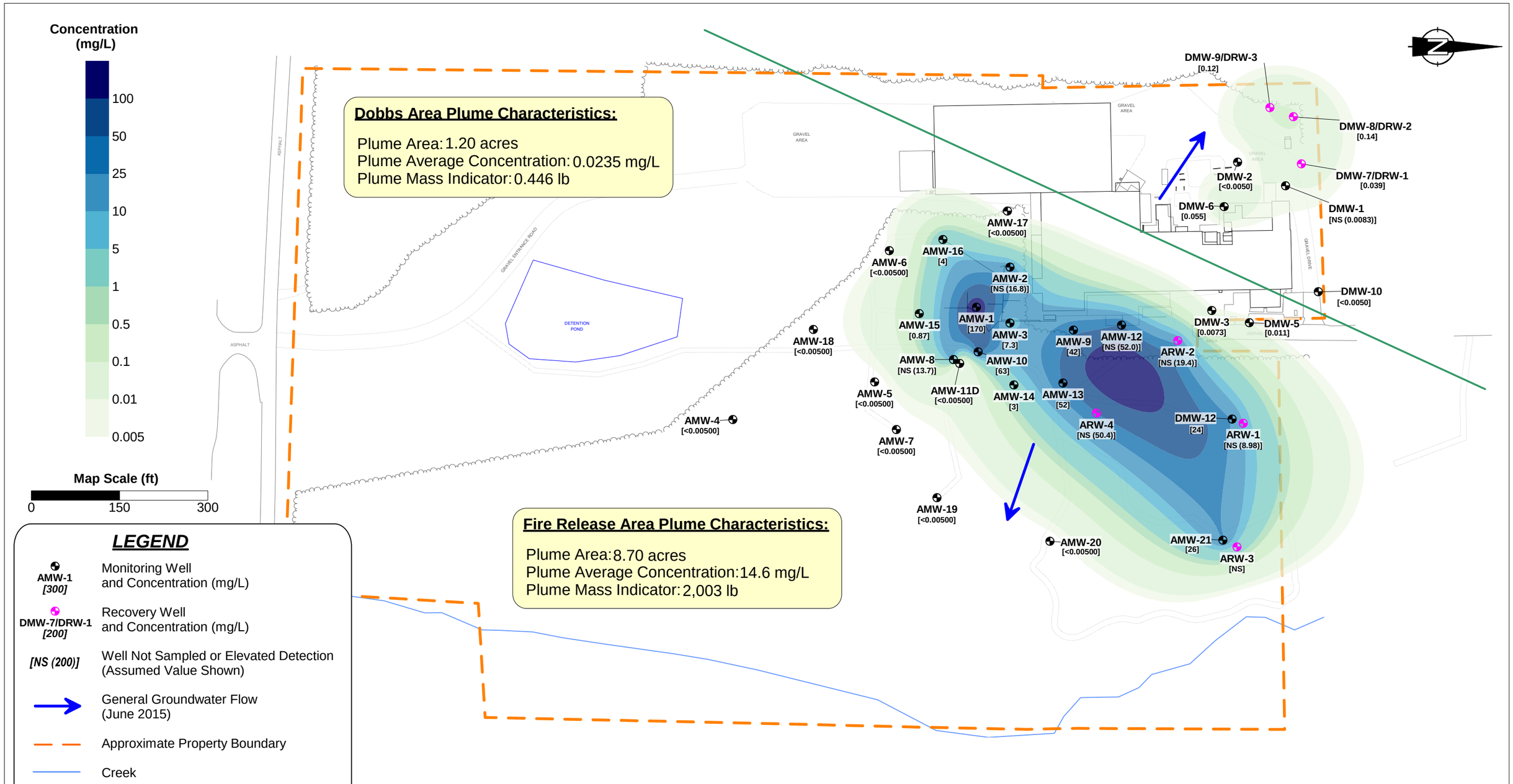

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Plume Map
Tetrachloroethene (PCE)
2006

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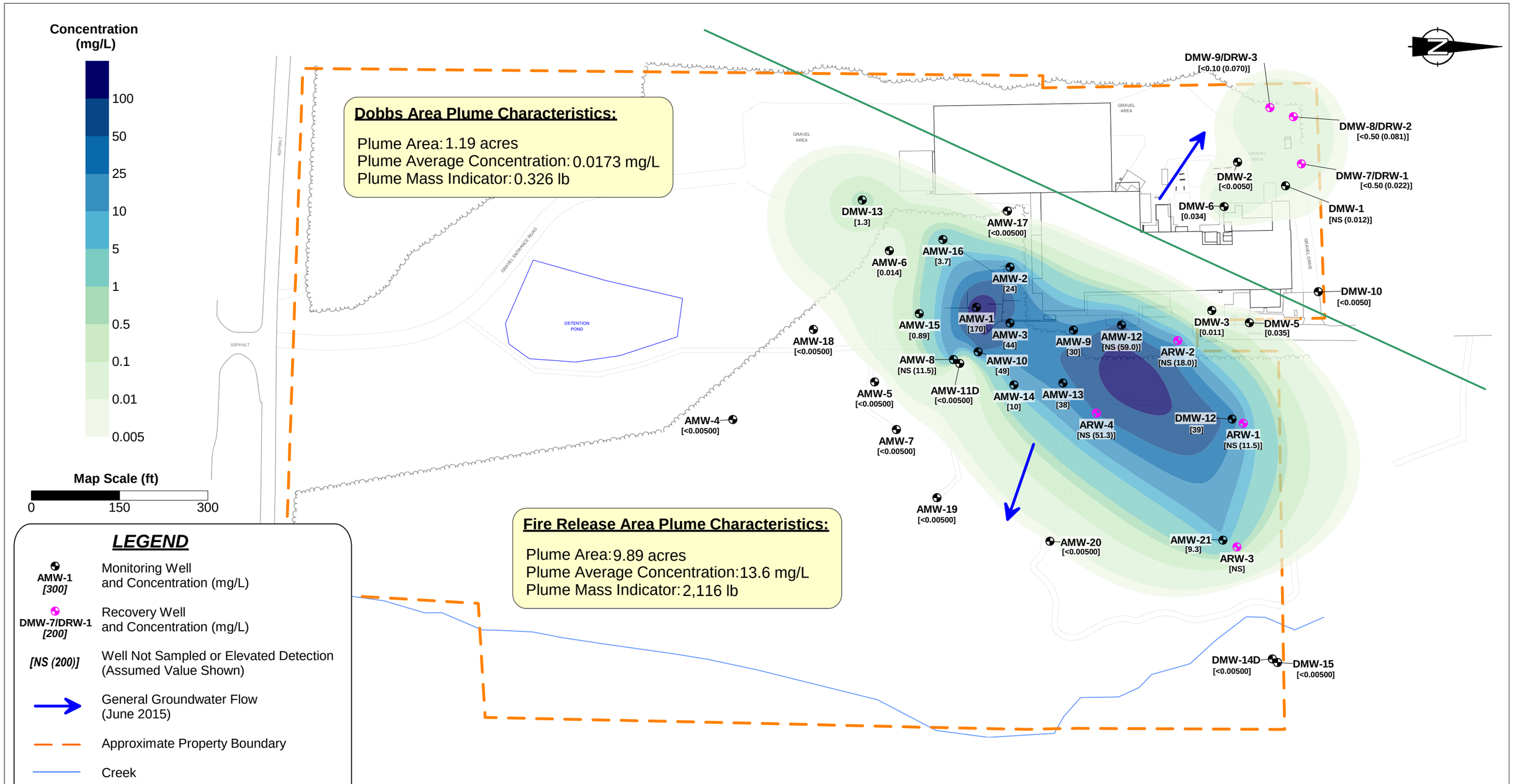

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Tetrachloroethene (PCE)
2007

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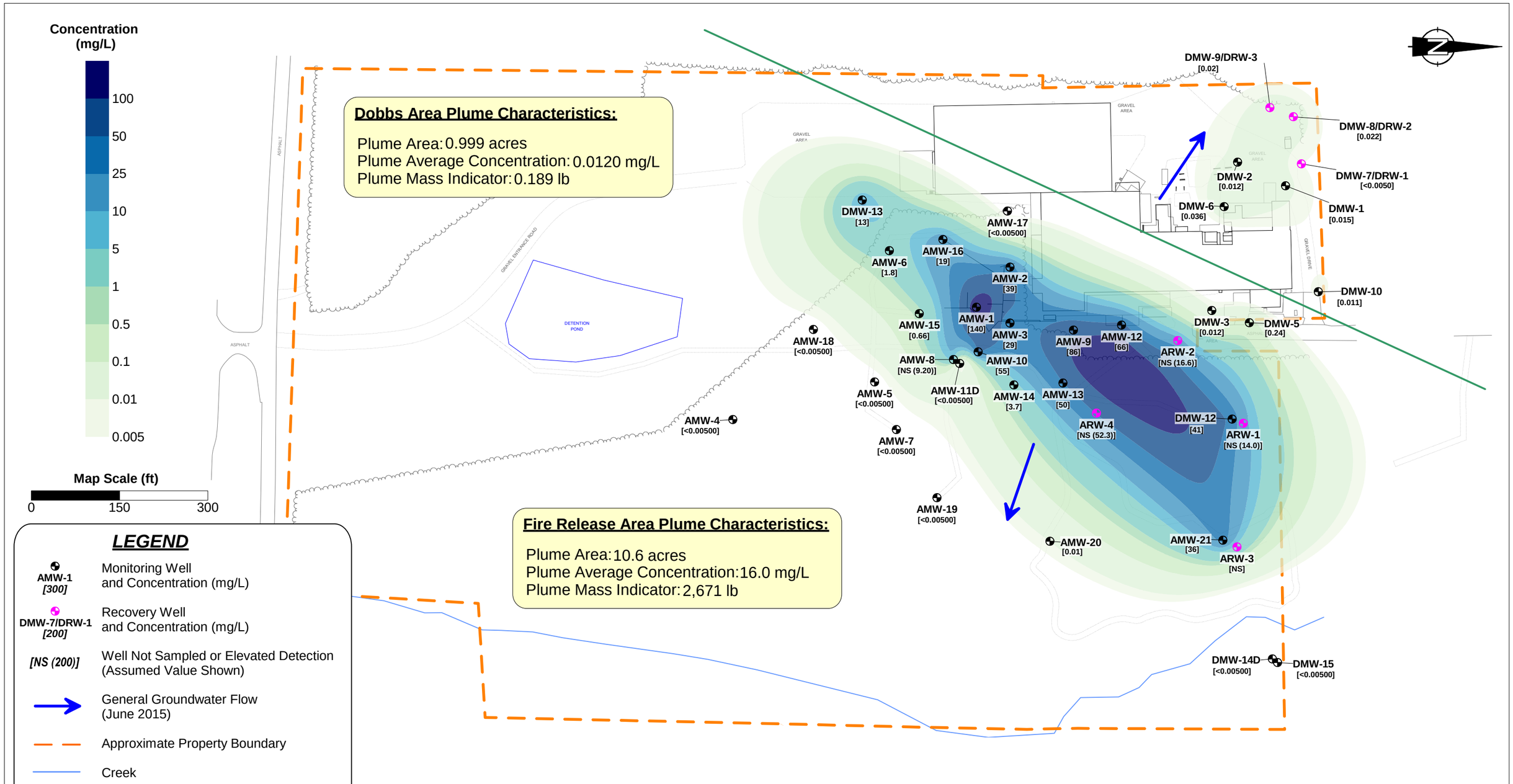

LEGEND

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Plume Map
Tetrachloroethene (PCE)
2008

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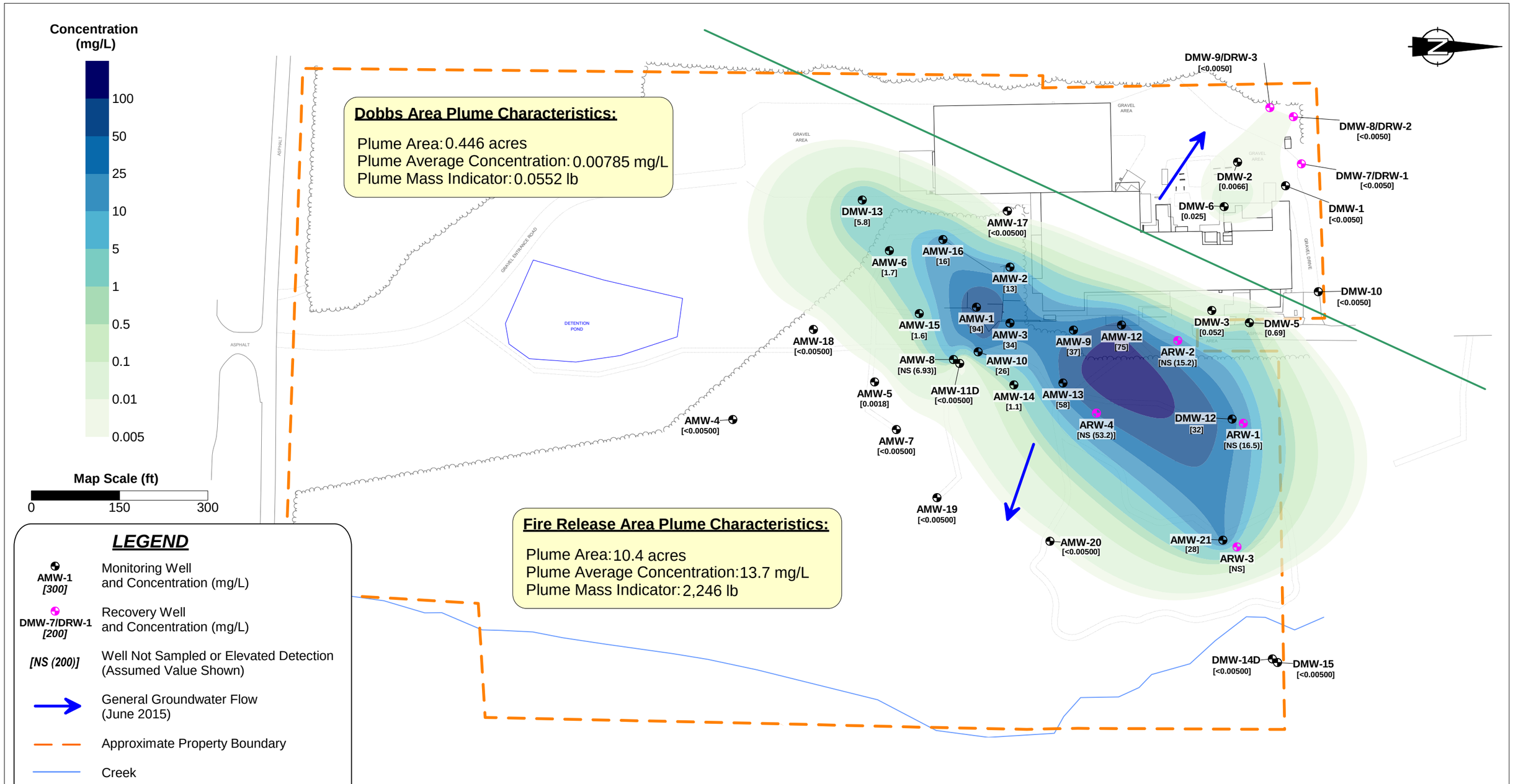

LEGEND

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Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Tetrachloroethene (PCE)
2009

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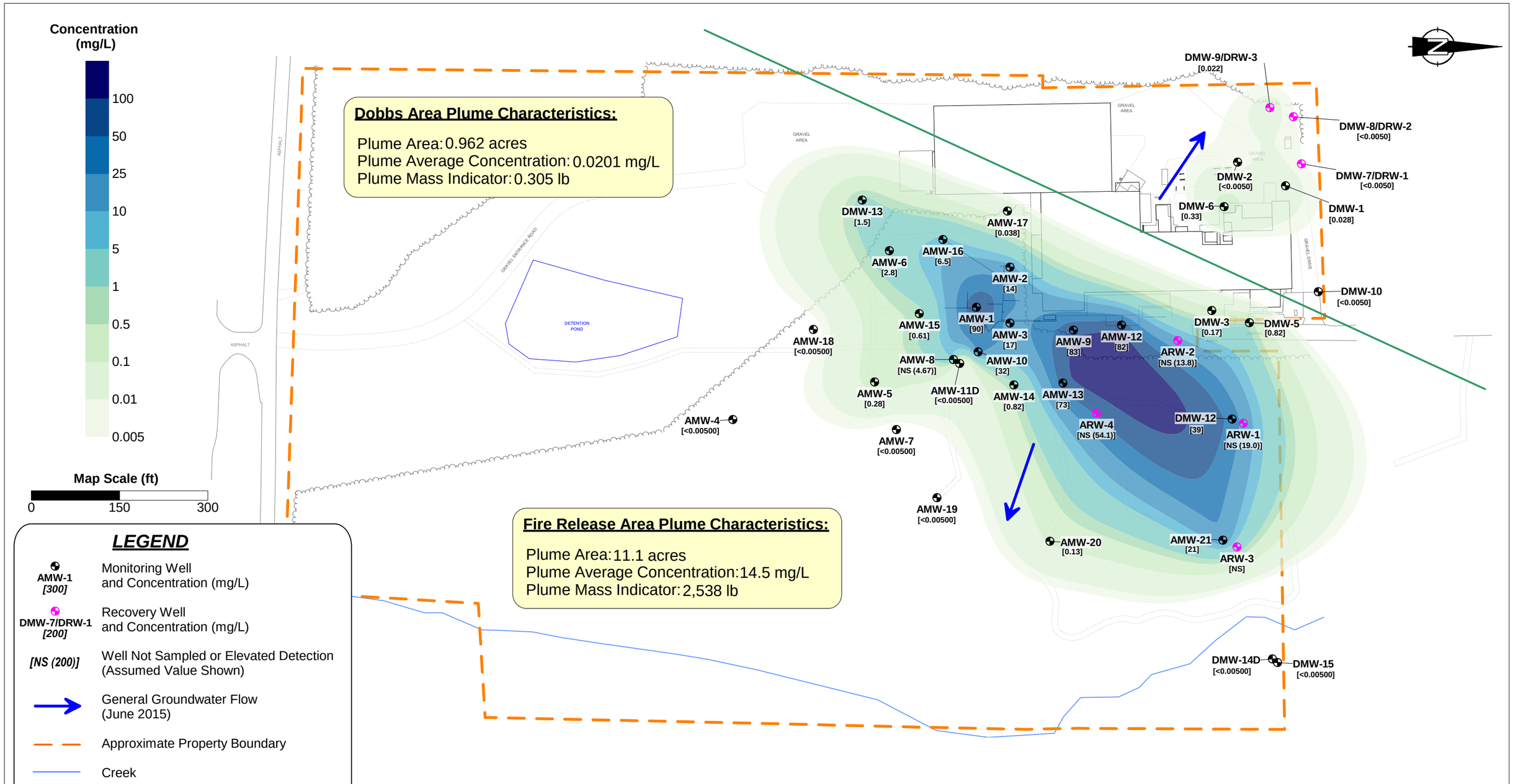

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Plume Map
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2010

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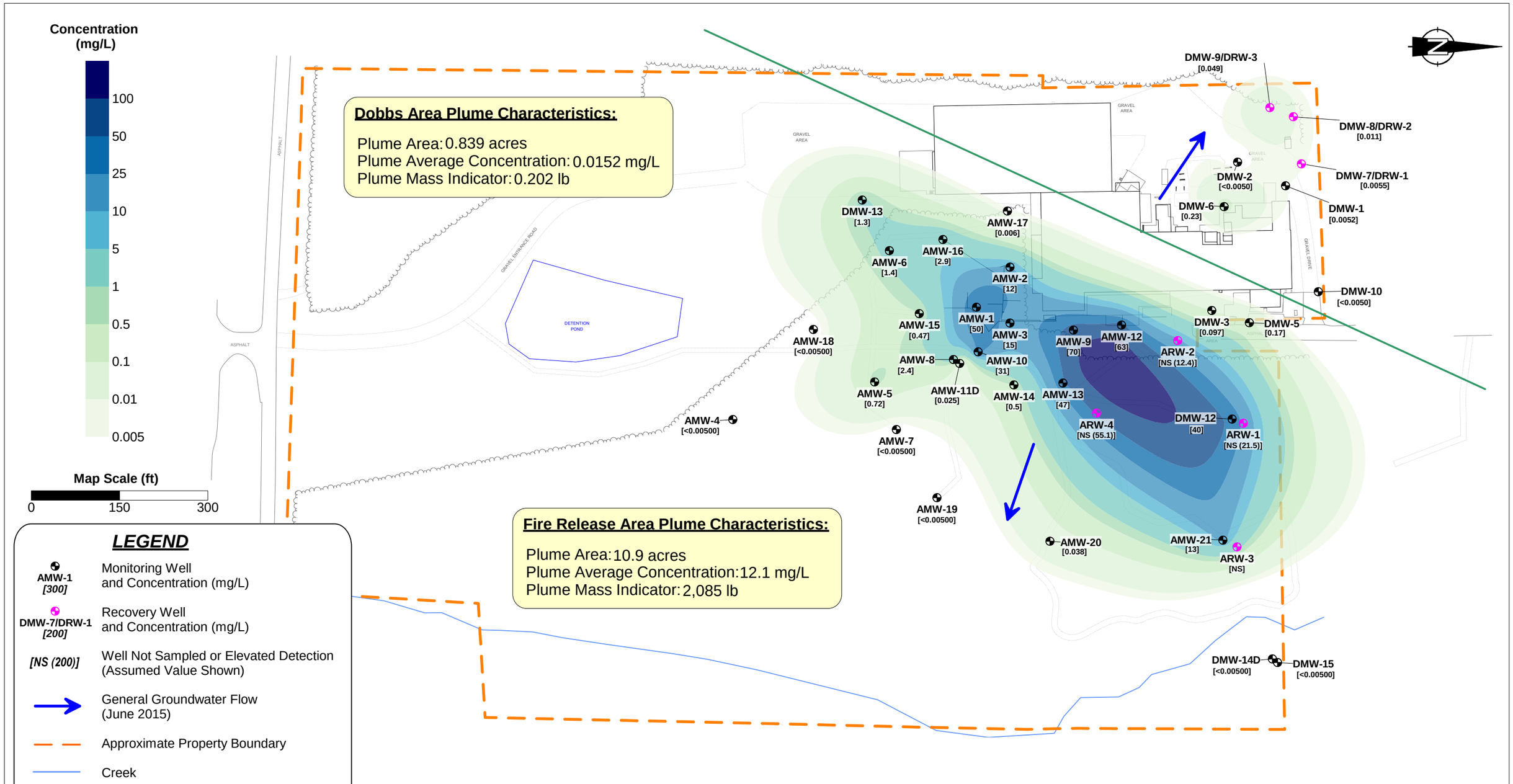

LEGEND

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Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

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Plume Map
Tetrachloroethene (PCE)
2011

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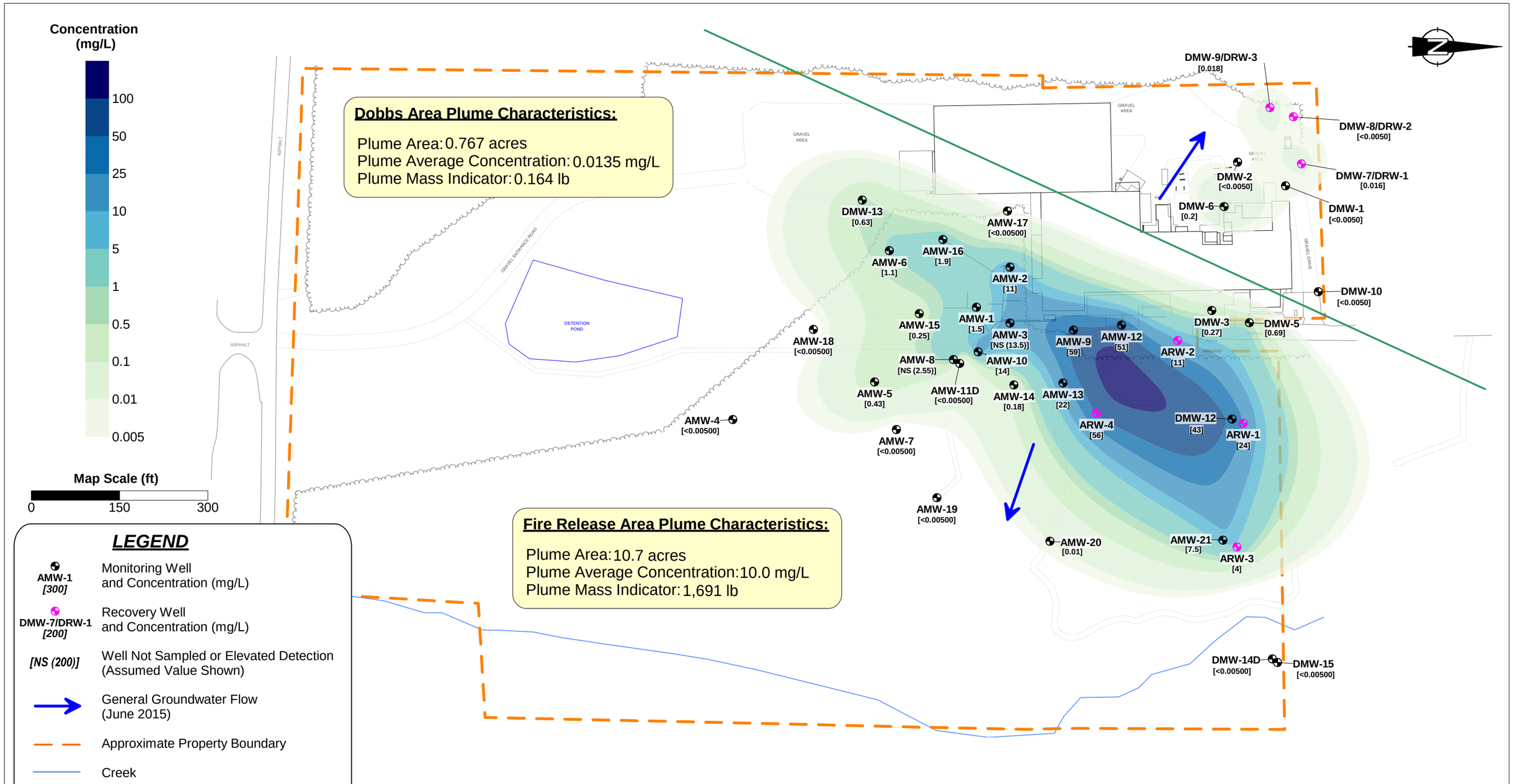

LEGEND

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Plume Map
Tetrachloroethene (PCE)
2012

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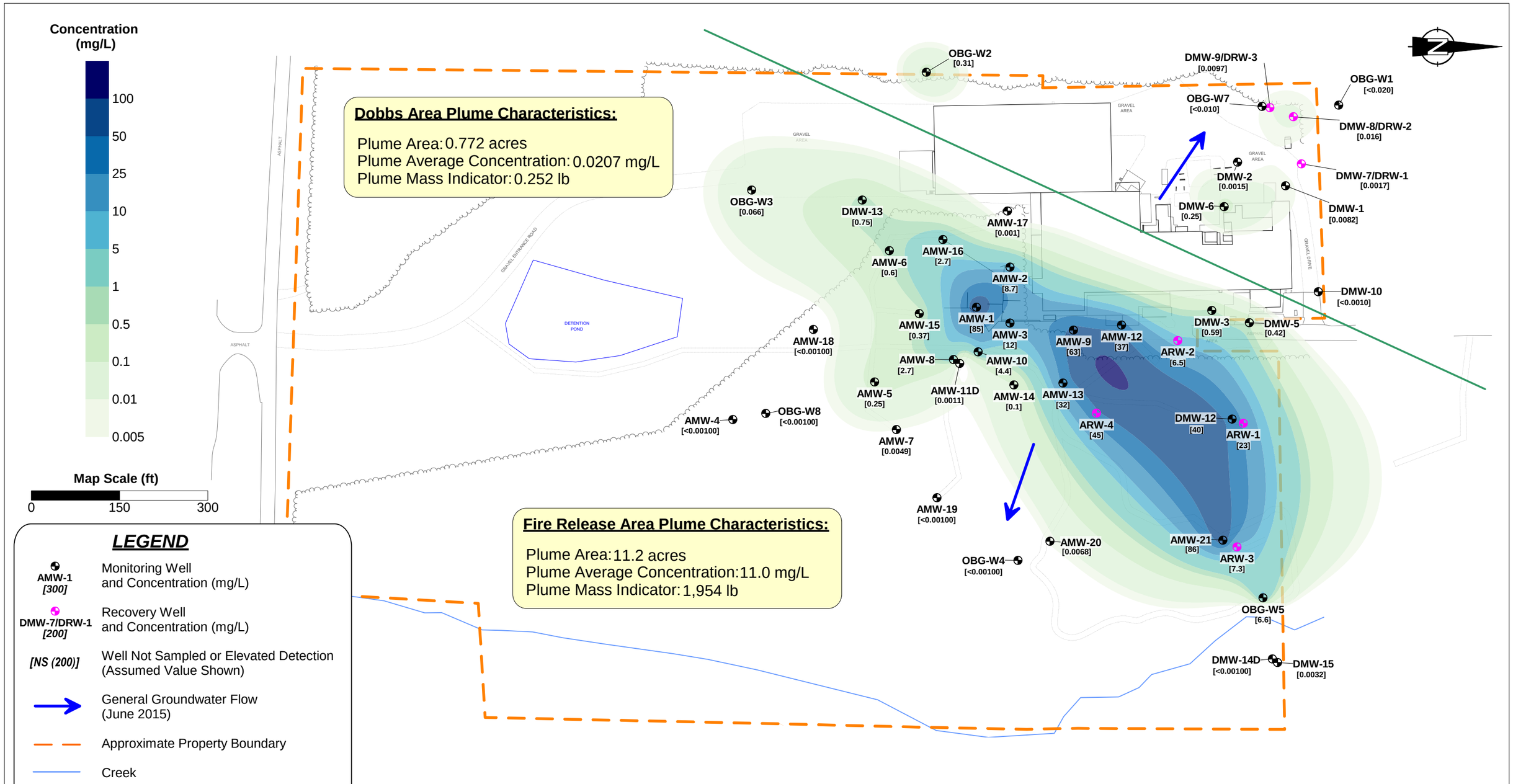

LEGEND

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Plume Map
Tetrachloroethene (PCE)
2013

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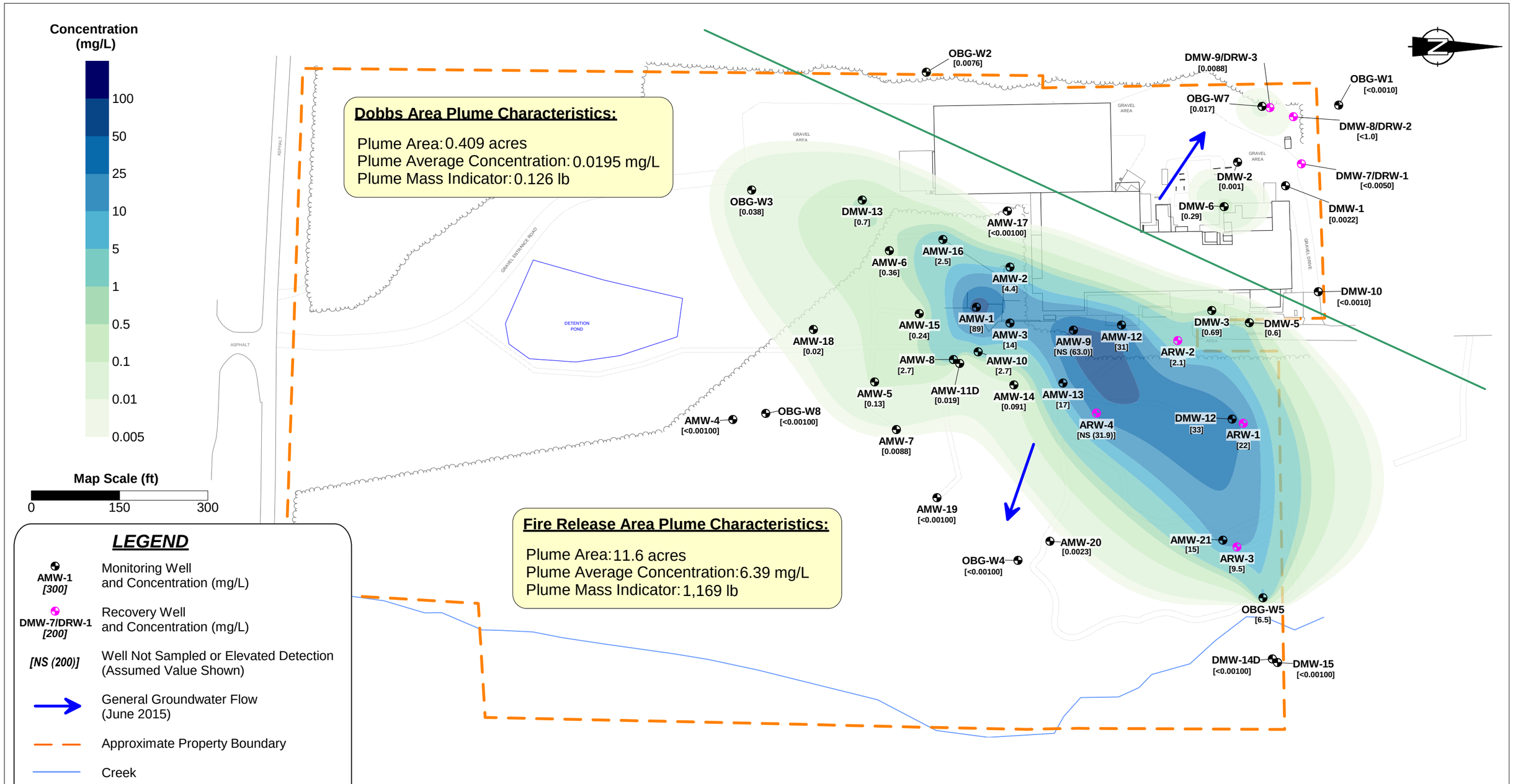

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Plume Map
Tetrachloroethene (PCE)
Jun-2014

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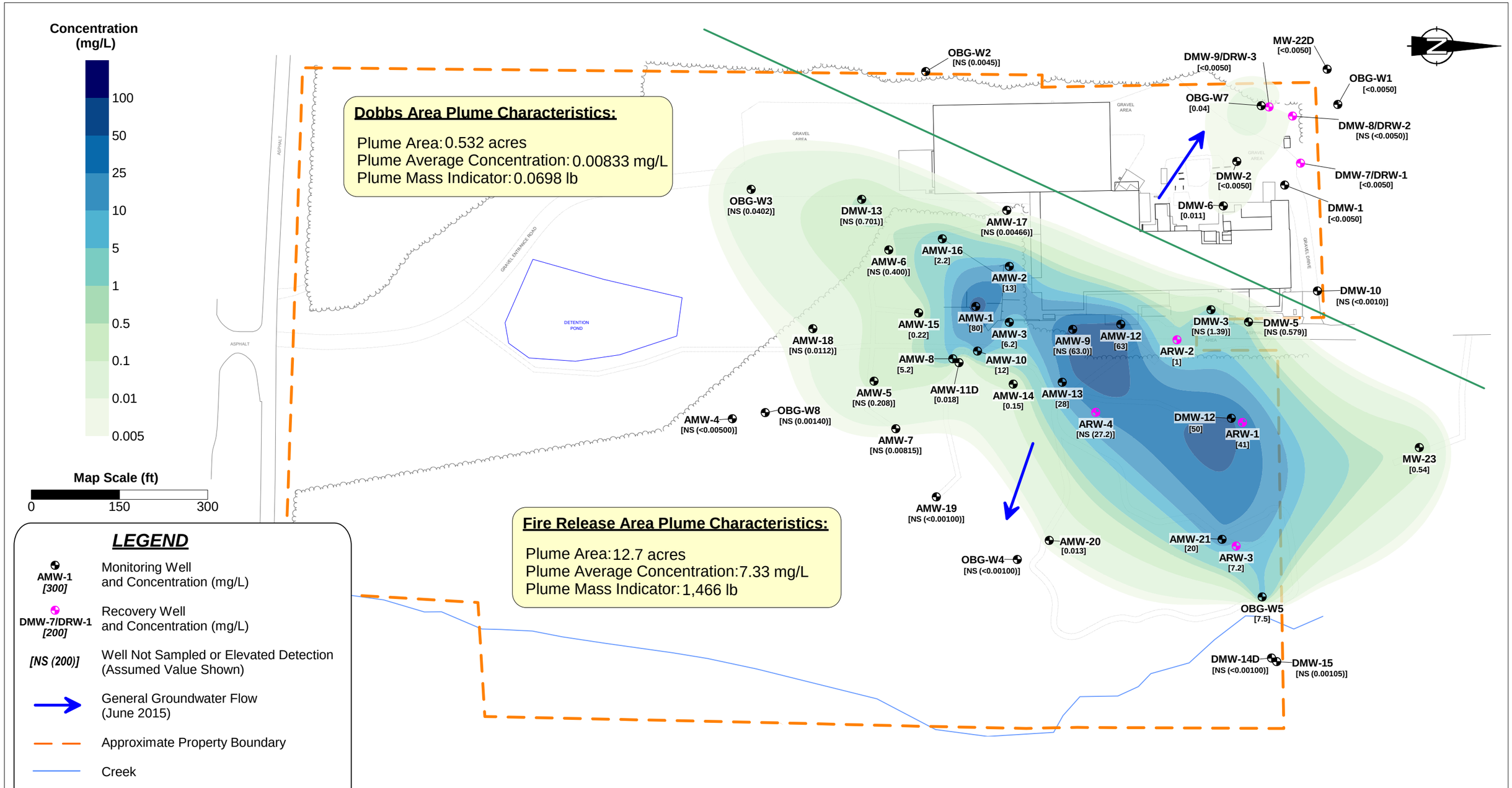

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Dec-2014

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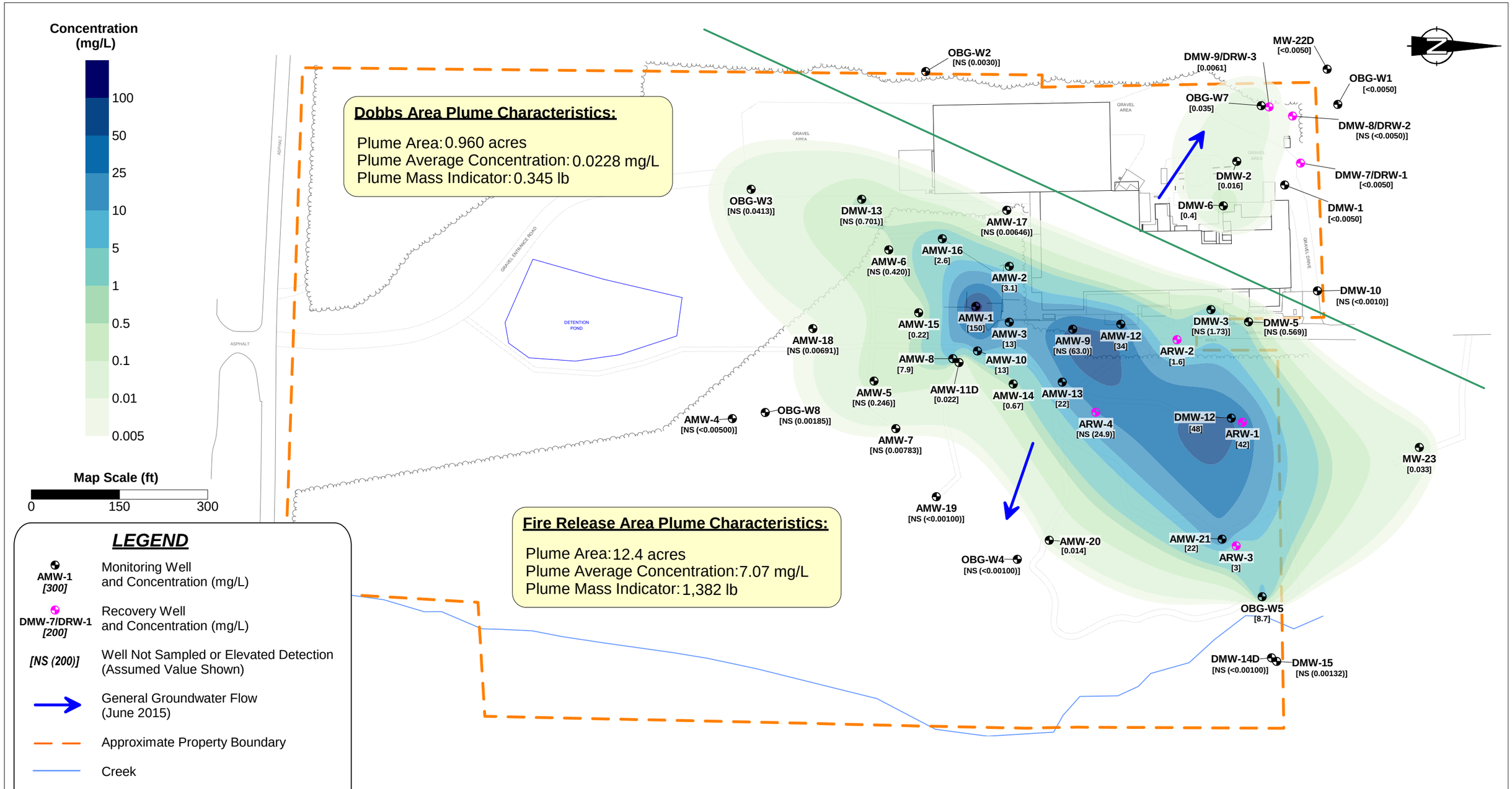

LEGEND

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Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Project Number: 02.20140392.00

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Plume Map
Tetrachloroethene (PCE)
Mar-2015

Prepared by: SNW Checked by: TOG Figure:

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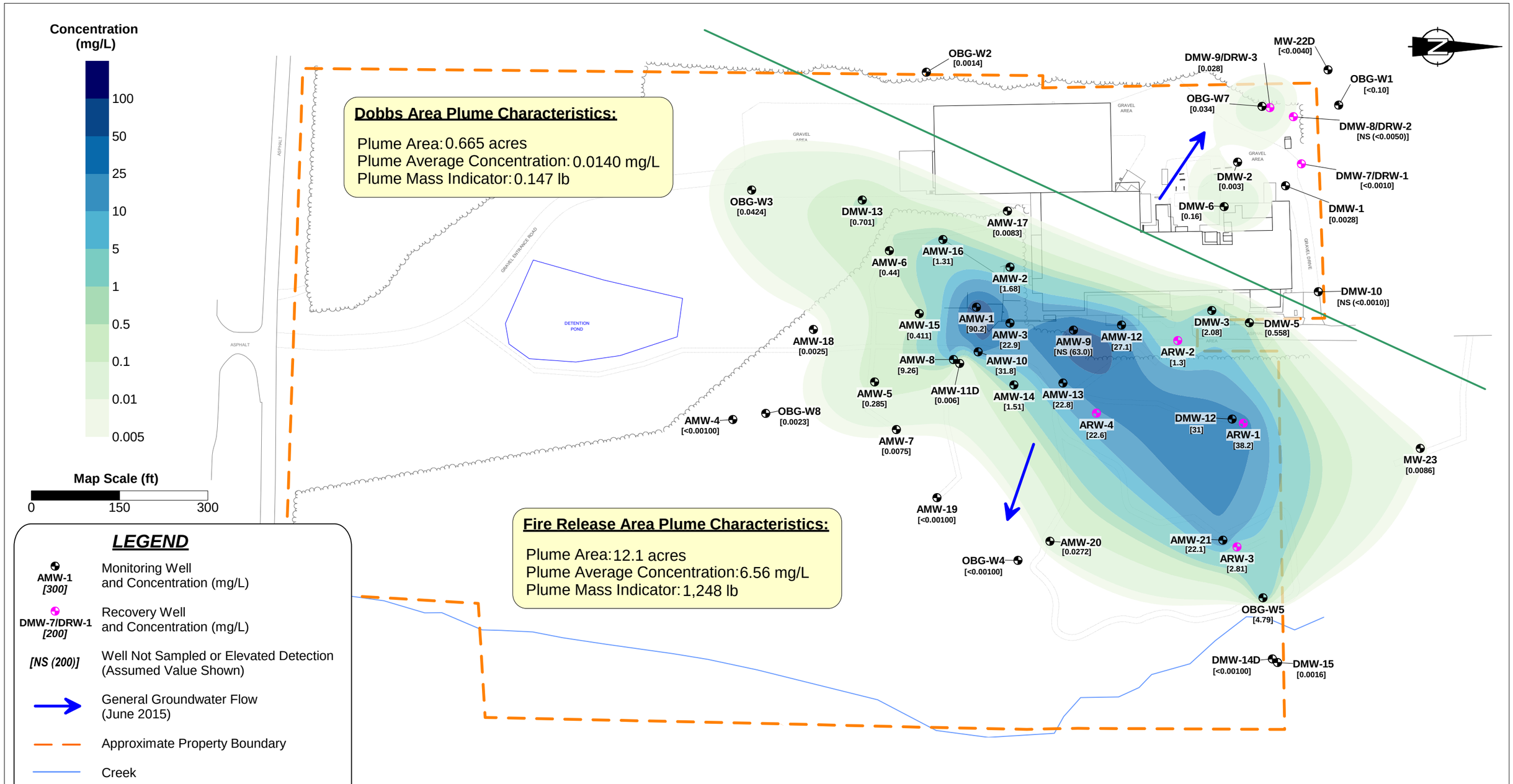

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Tetrachloroethene (PCE)
Jun-2015

Prepared by: SNW Checked by: TOG Figure:

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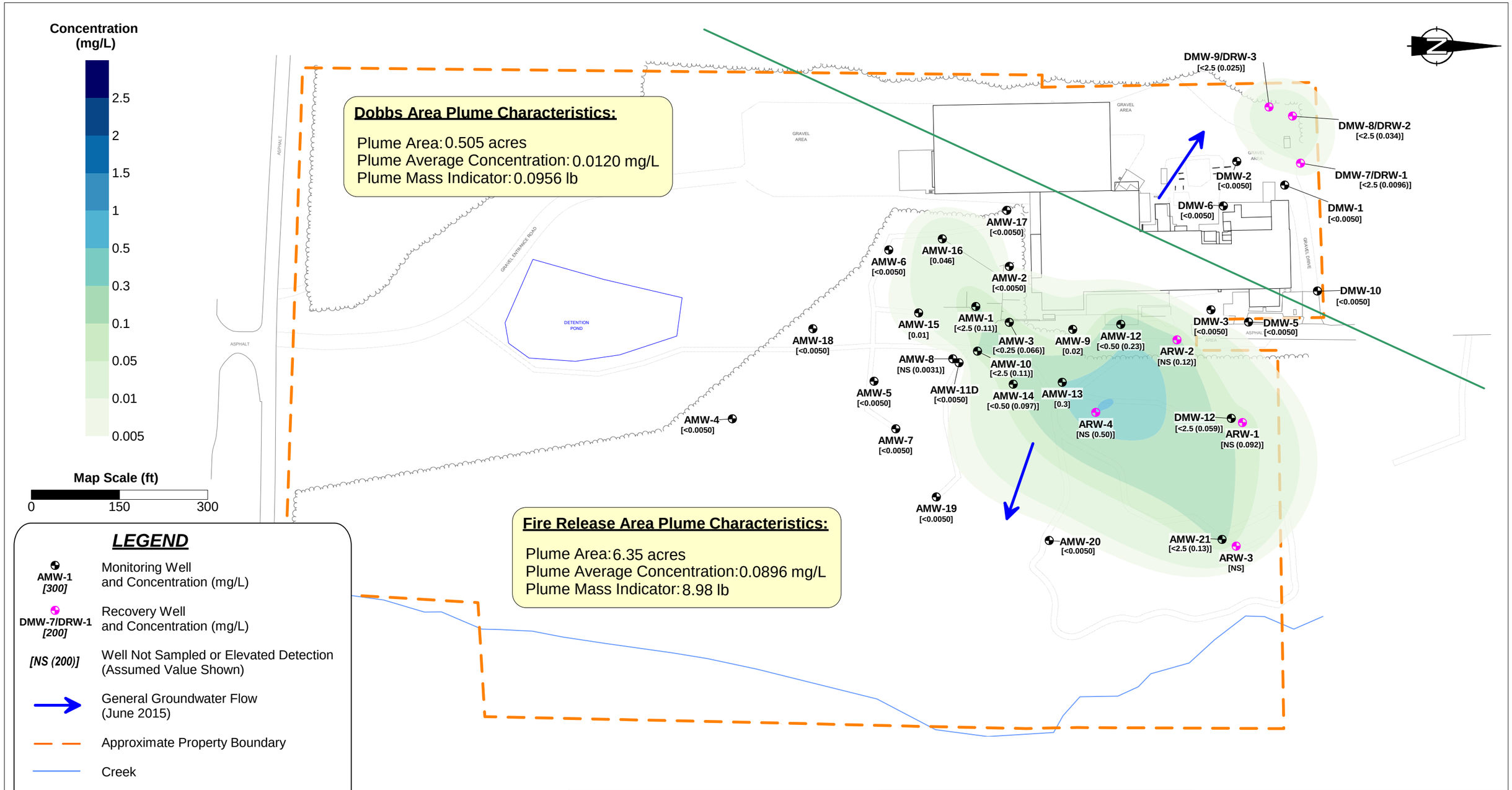
Appendix B
Plume Series Isopleth Maps
Trichloroethene (TCE)



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Plume Map
Trichloroethene (TCE)
2005

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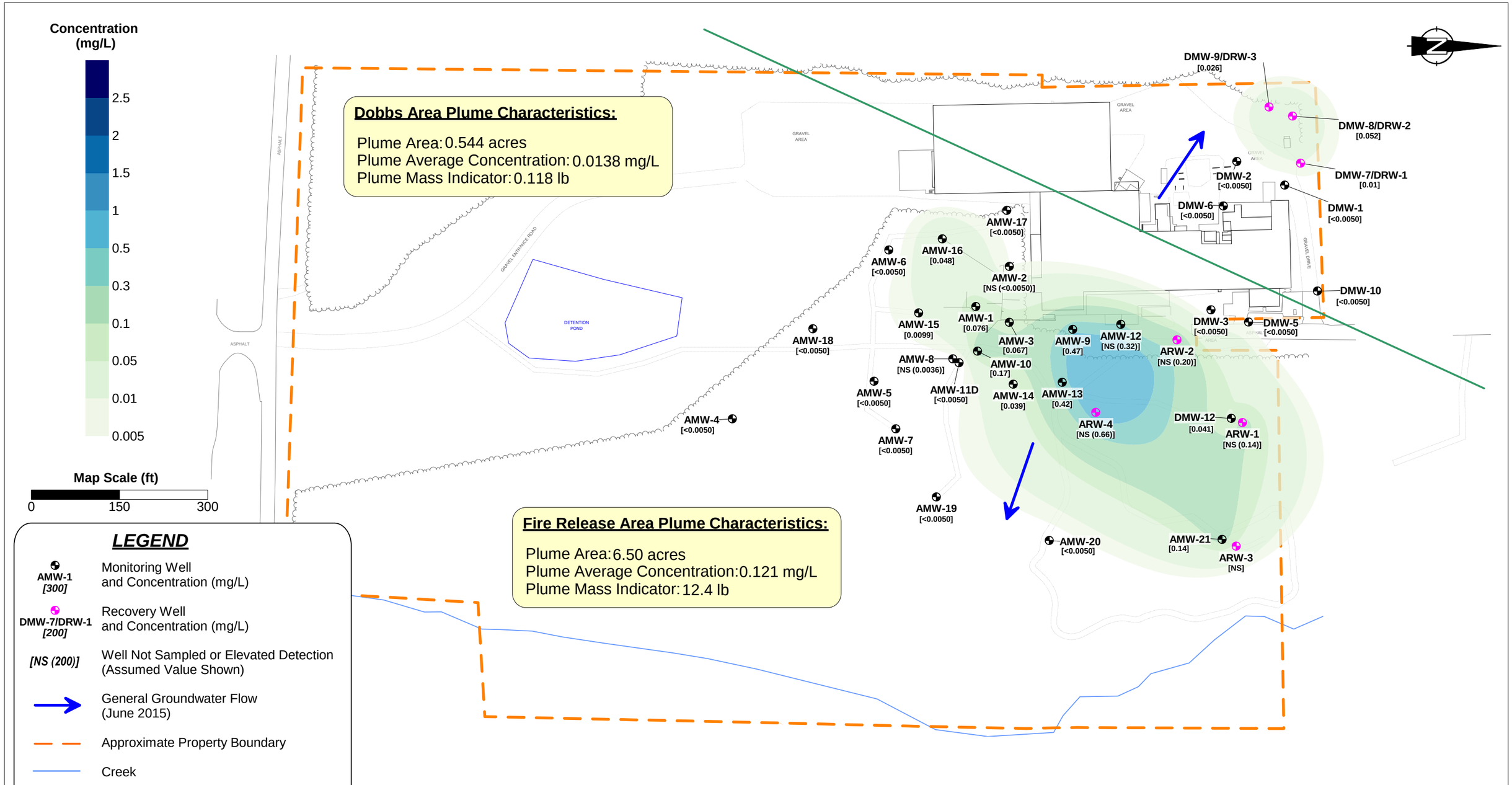

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
2006

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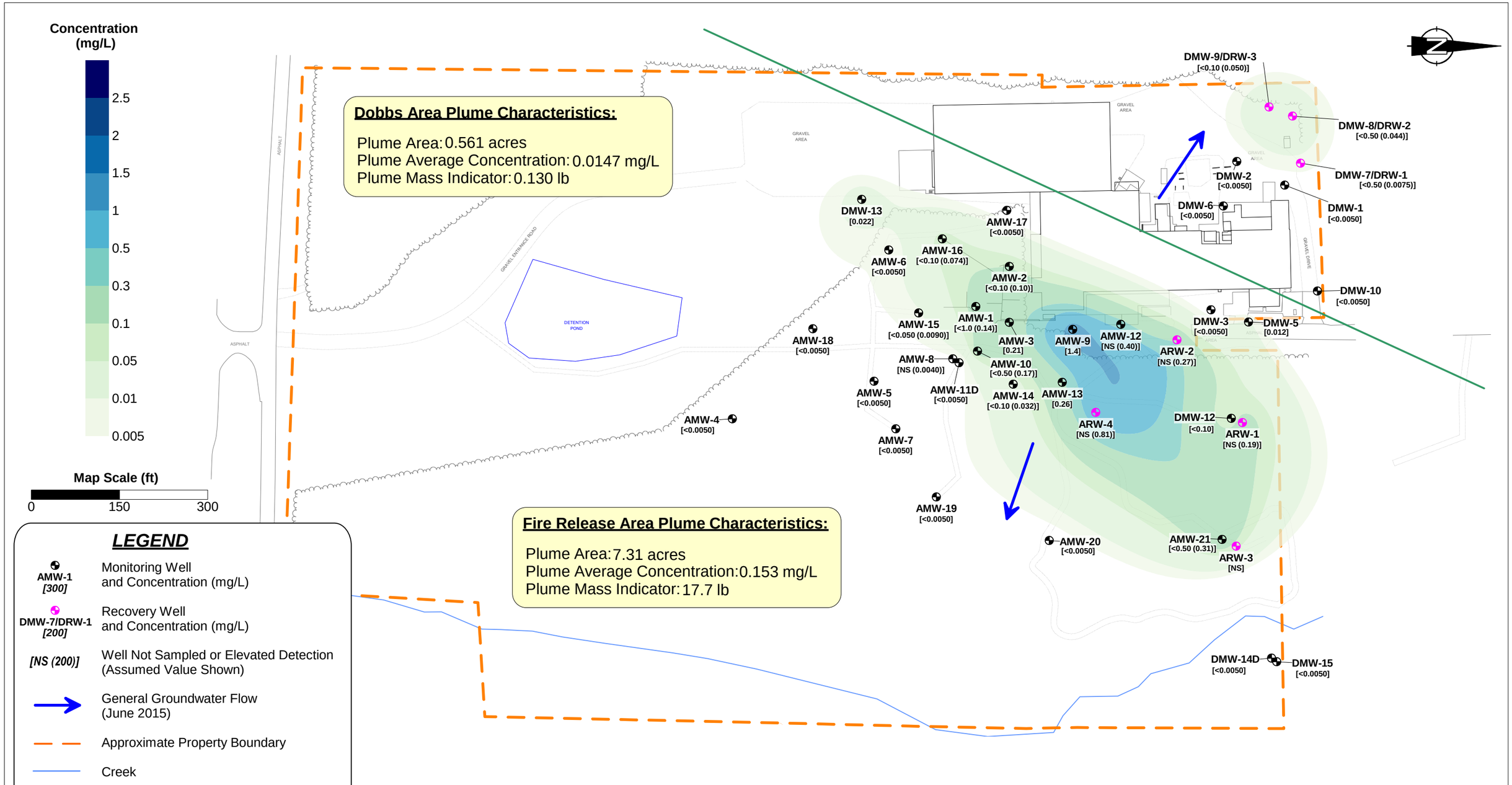

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
2007

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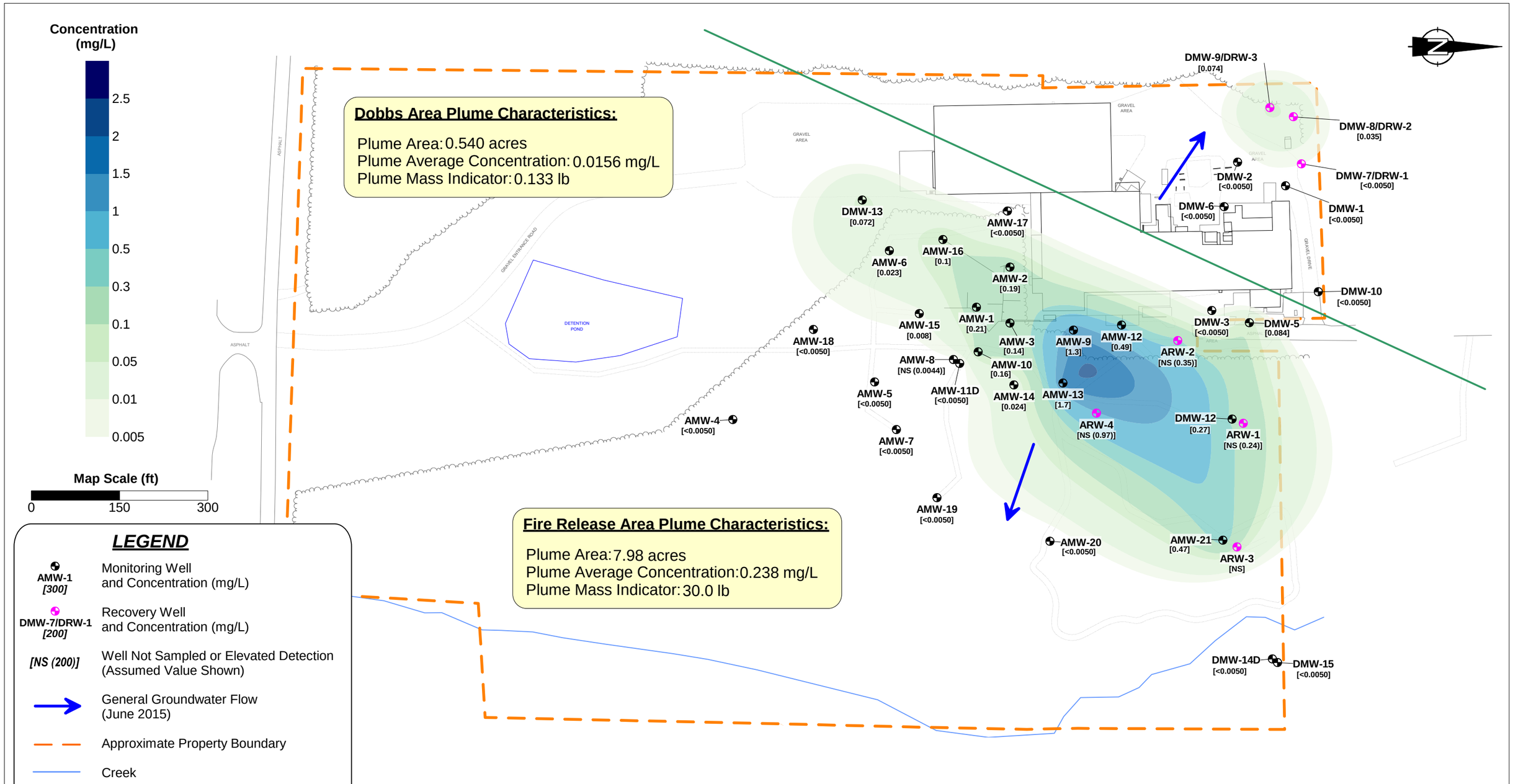

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
2008

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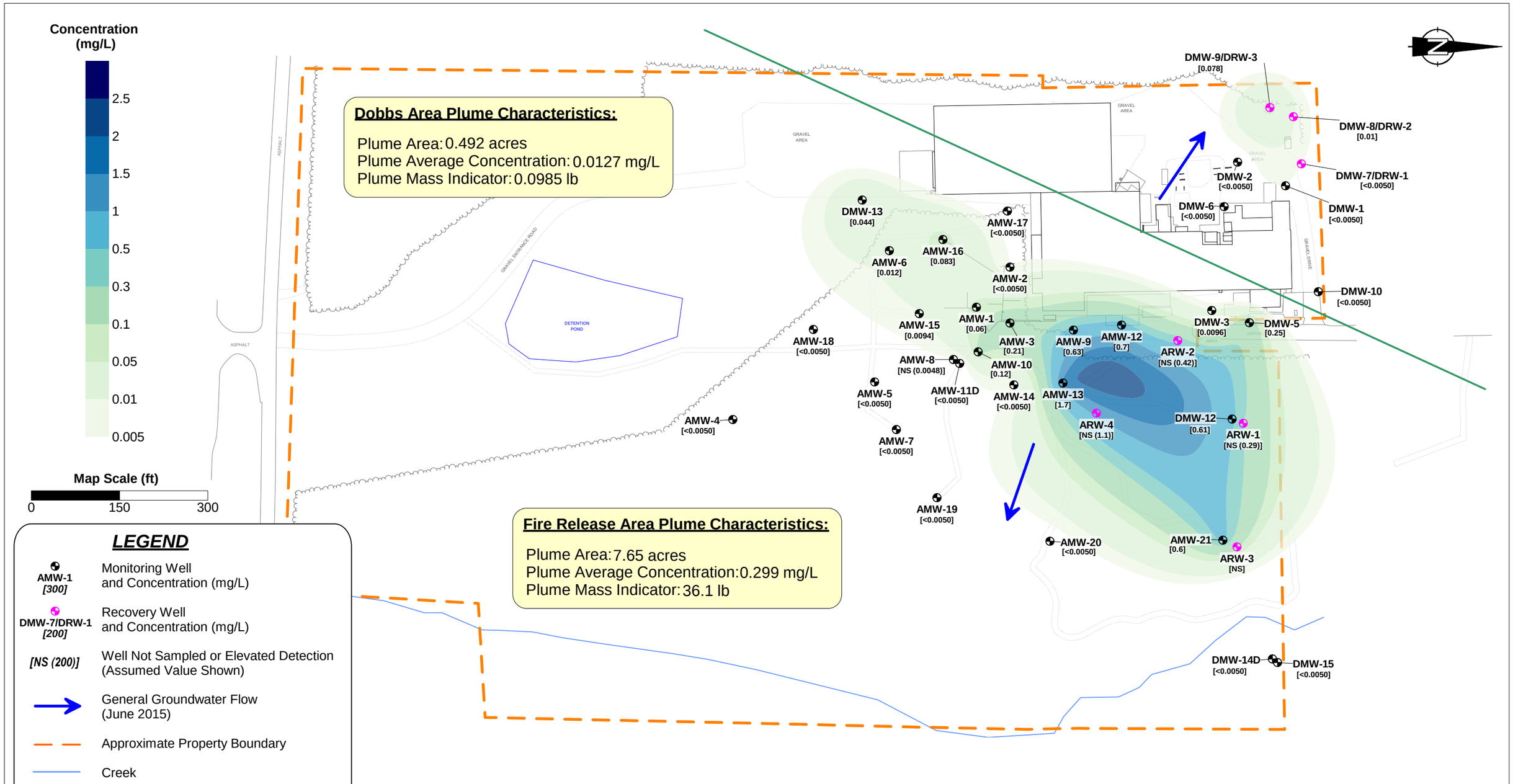

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Plume Map
Trichloroethene (TCE)
2009

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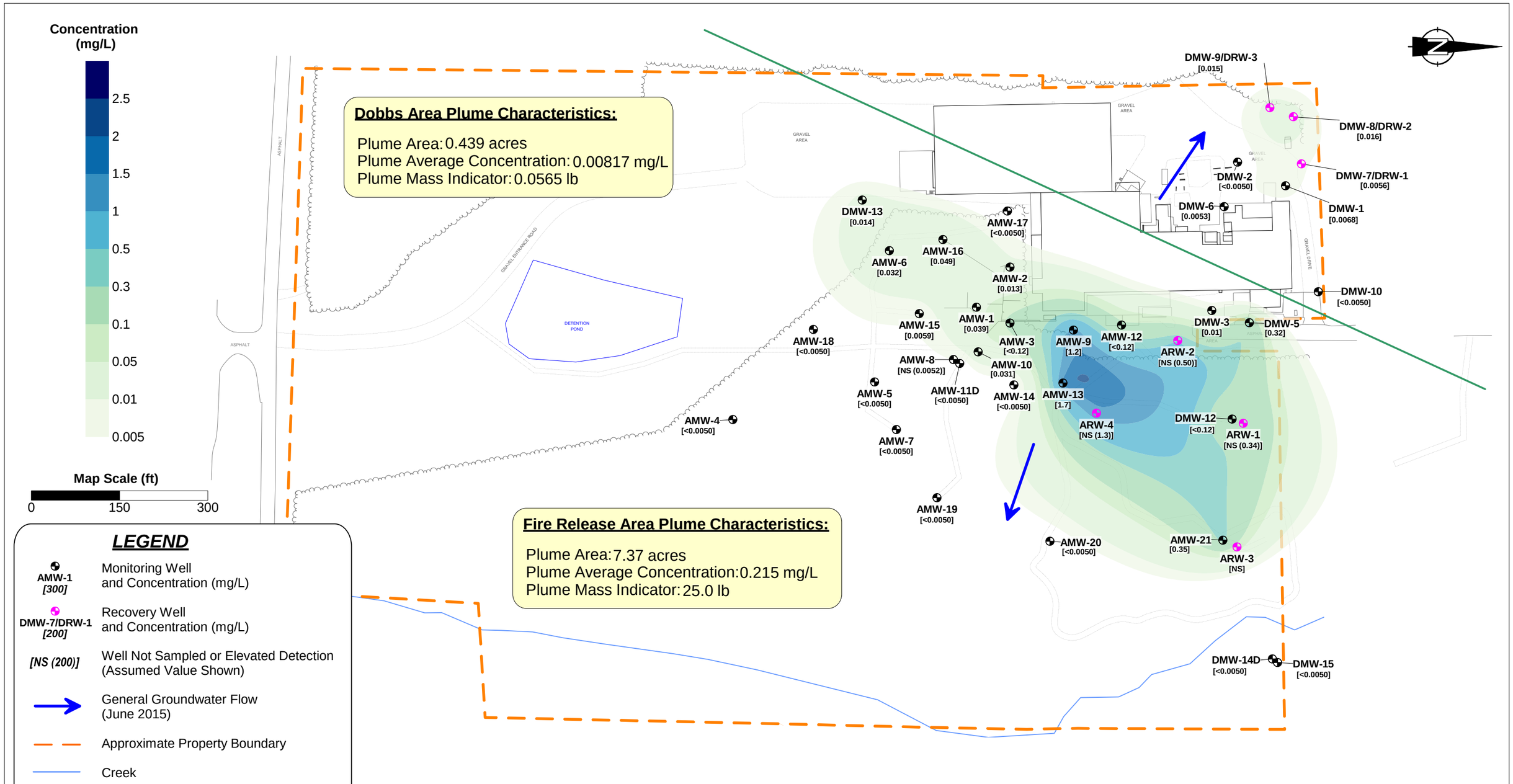

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Plume Map
Trichloroethene (TCE)
2010

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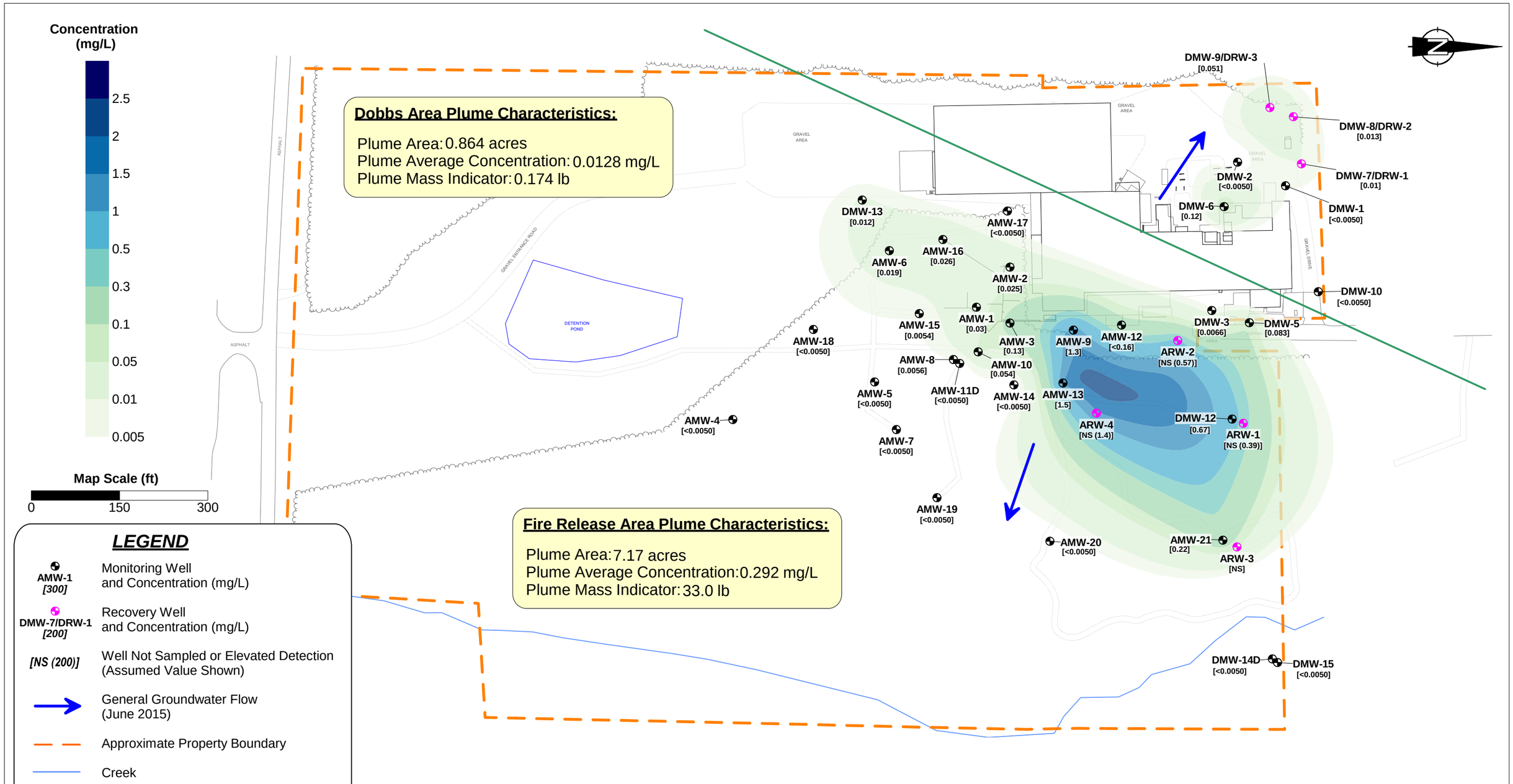

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
2011

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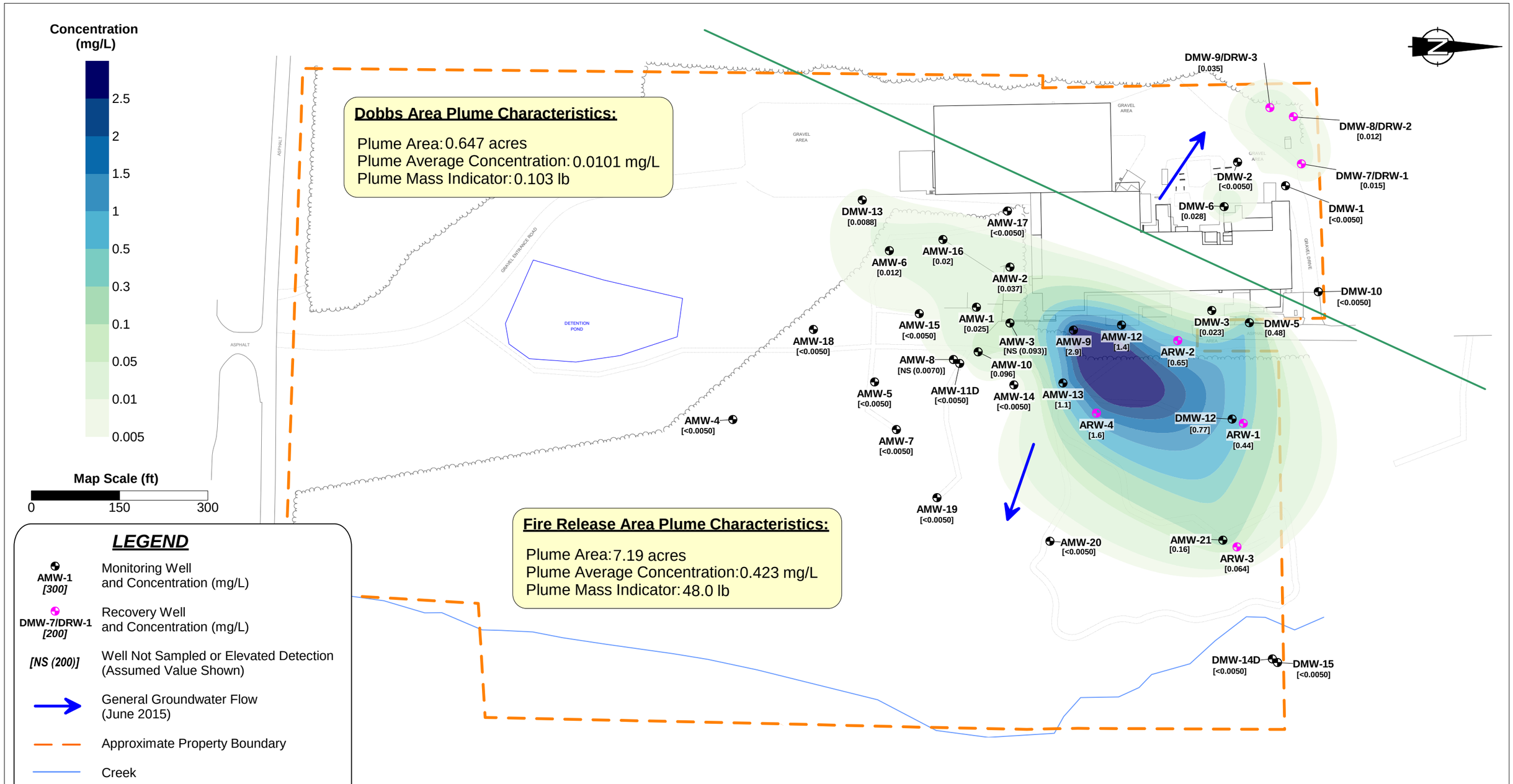

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
2012

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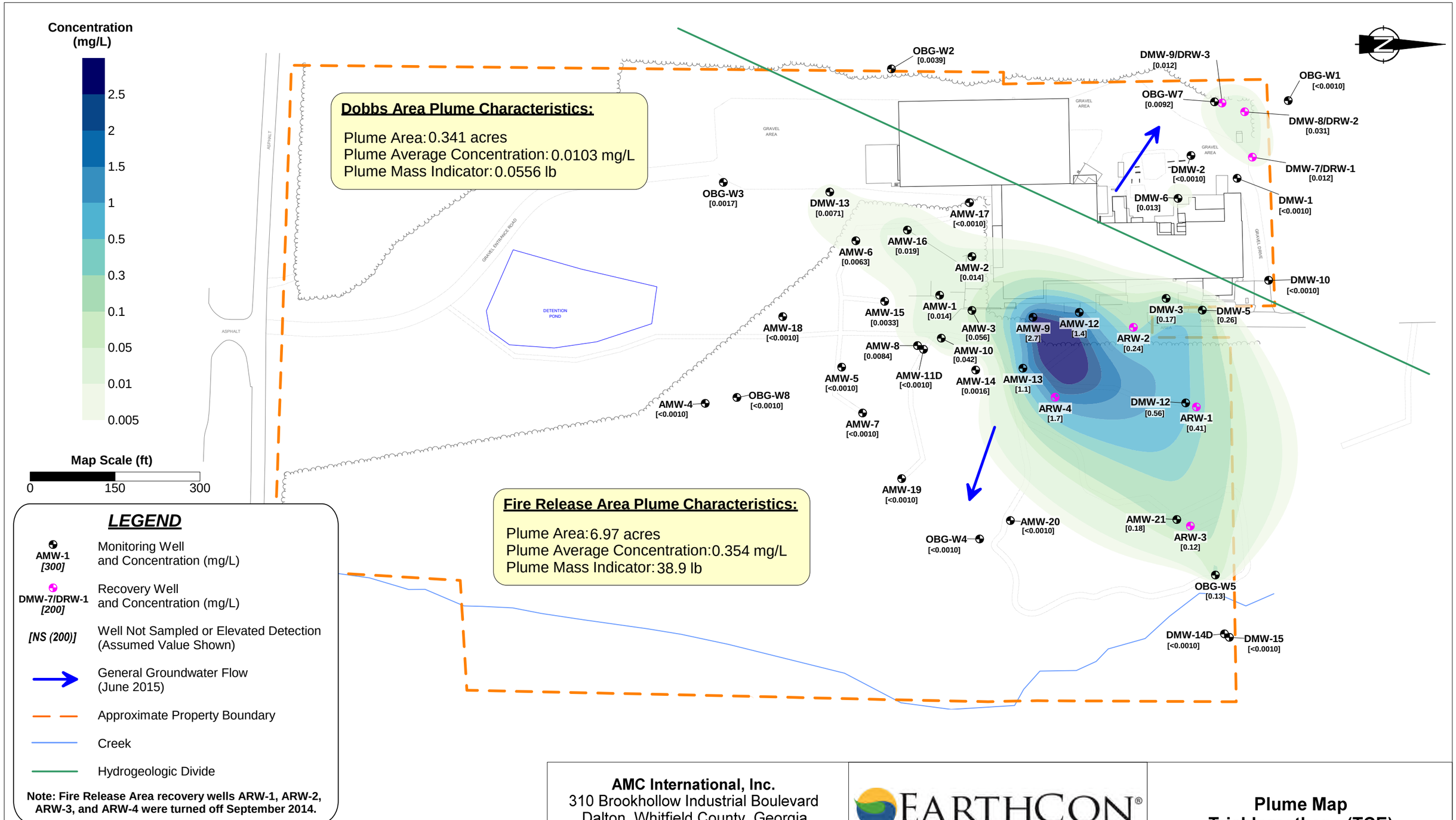

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Plume Map
Trichloroethene (TCE)
2013

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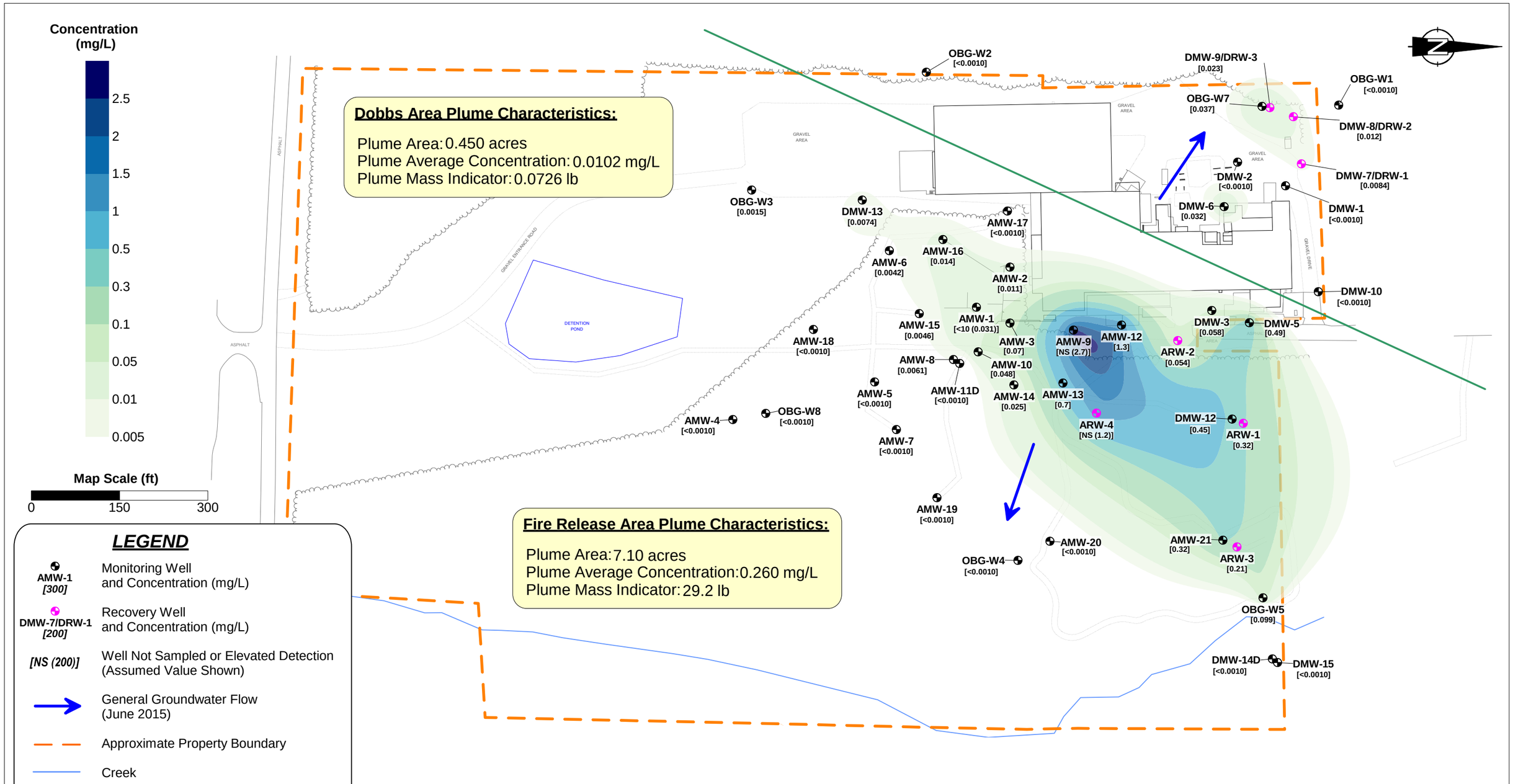

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Plume Map
Trichloroethene (TCE)
Jun-2014

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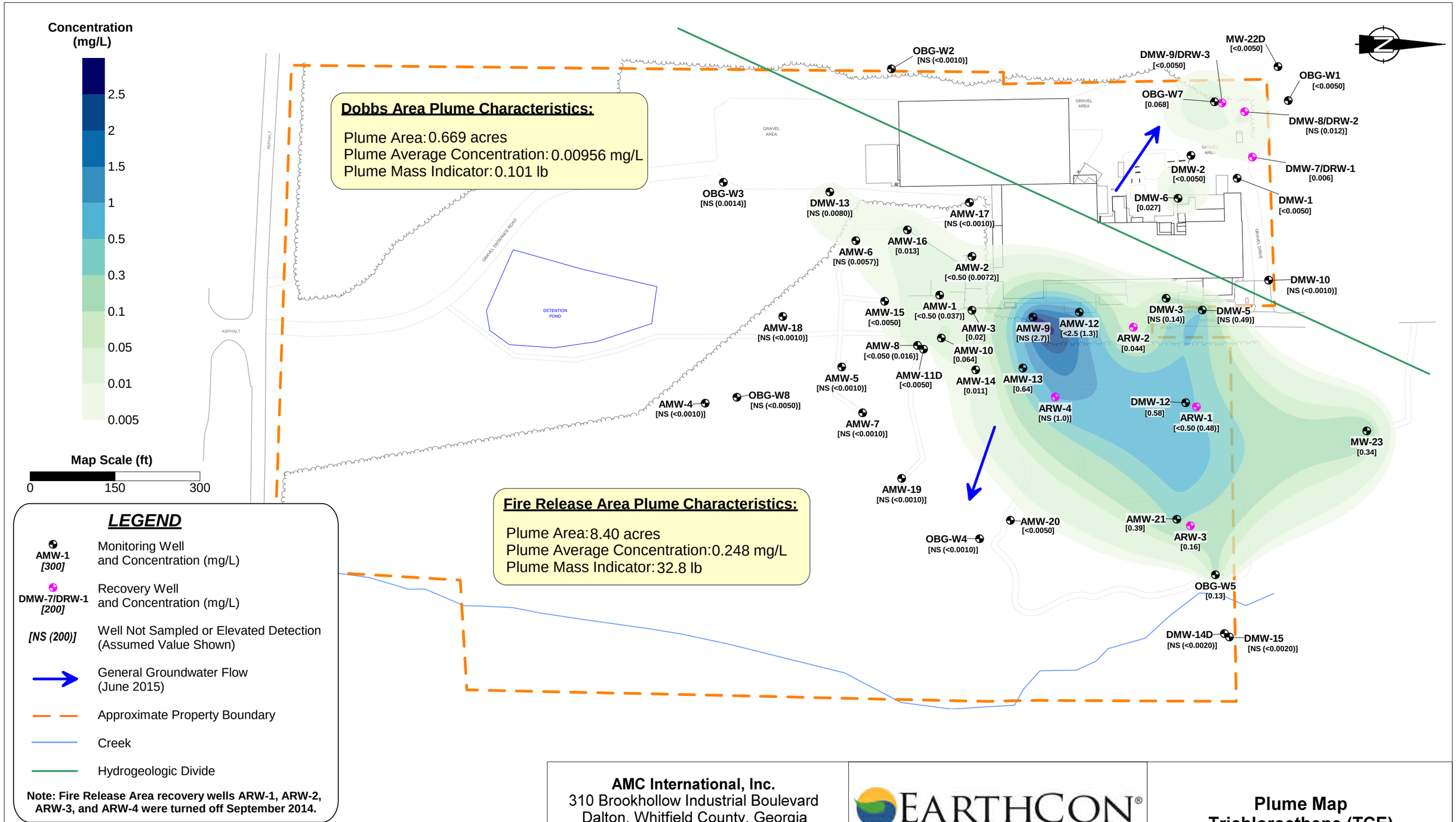

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Plume Map
Trichloroethene (TCE)
Dec-2014

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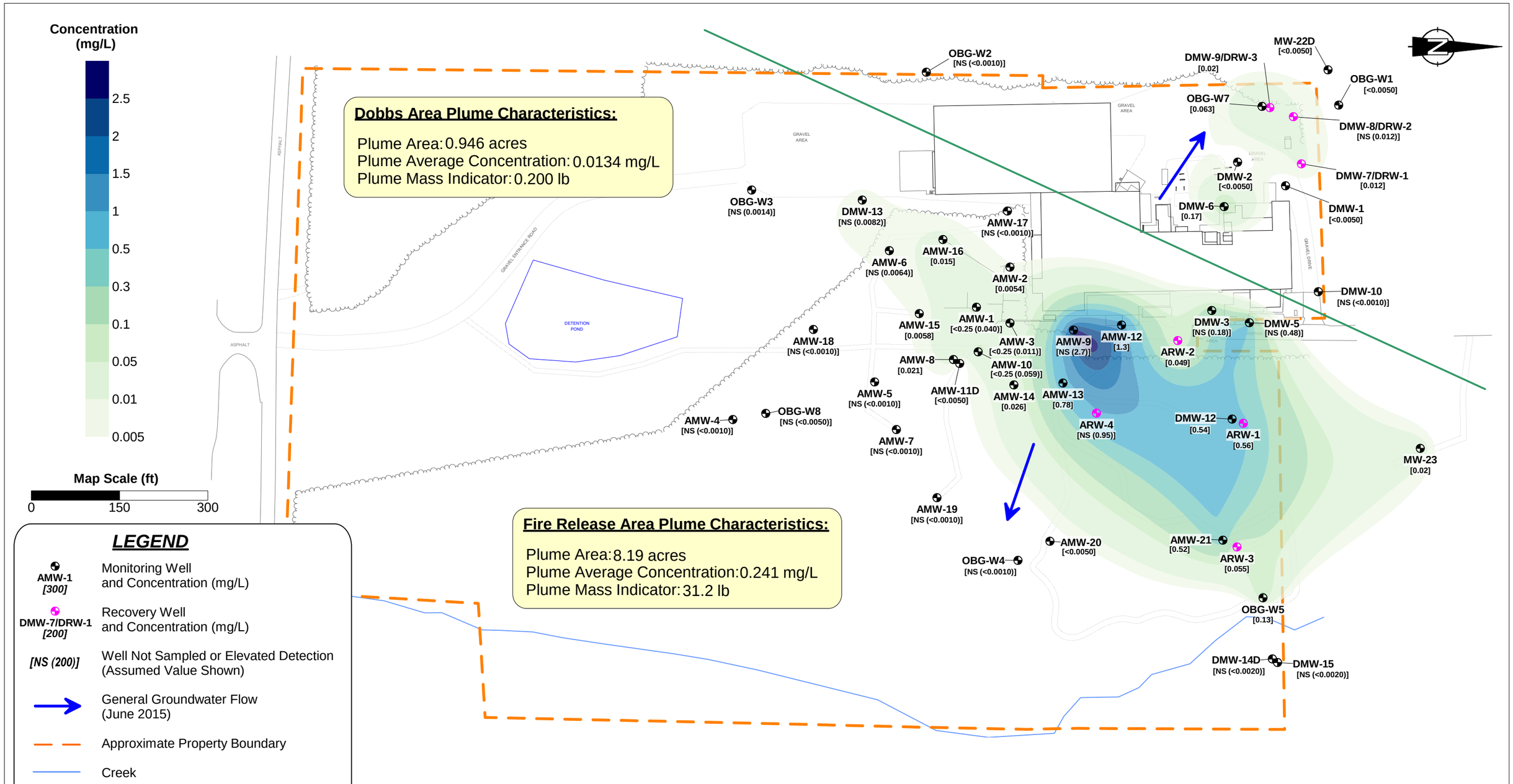

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Trichloroethene (TCE)
Mar-2015

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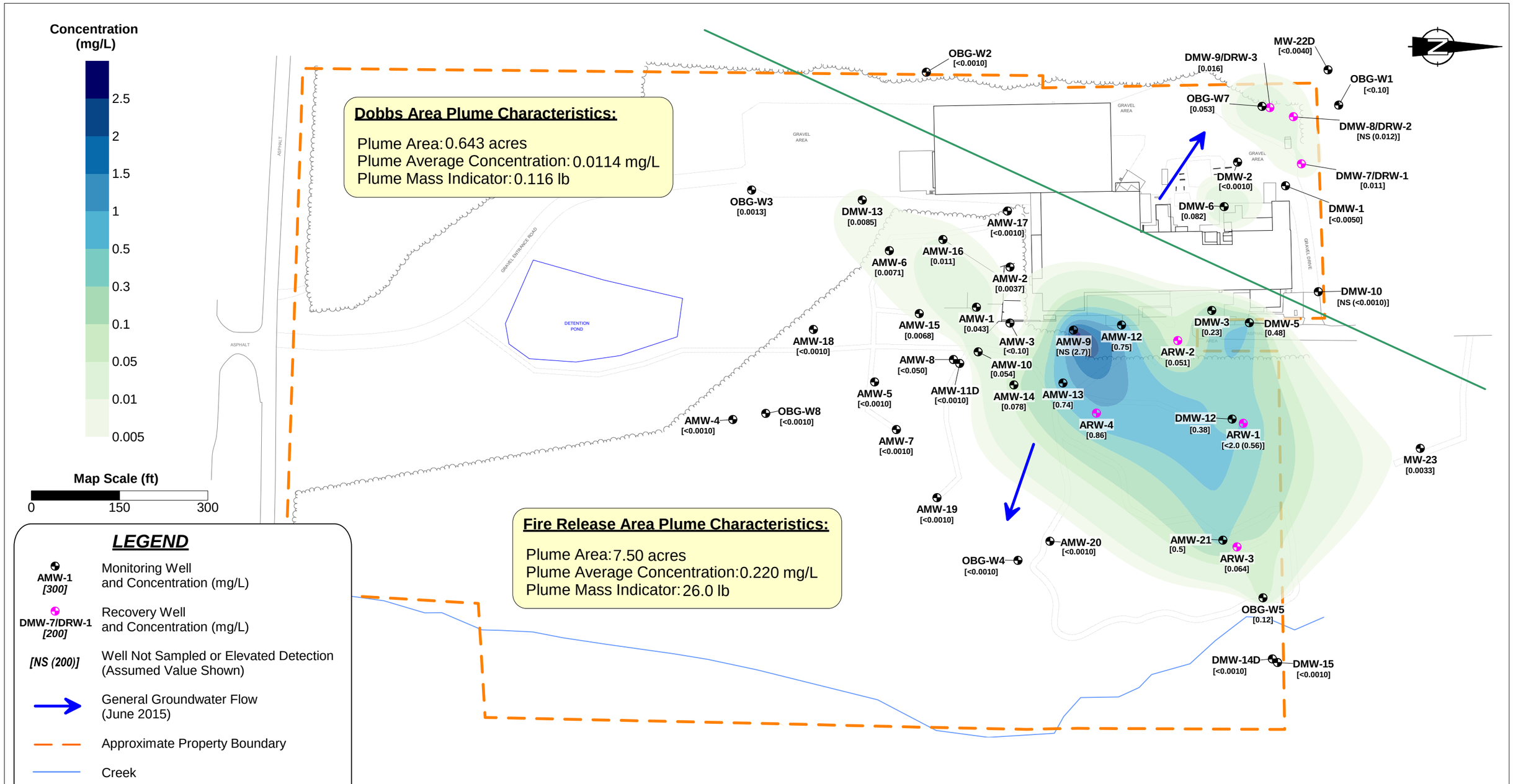

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Plume Map
Trichloroethene (TCE)
Jun-2015

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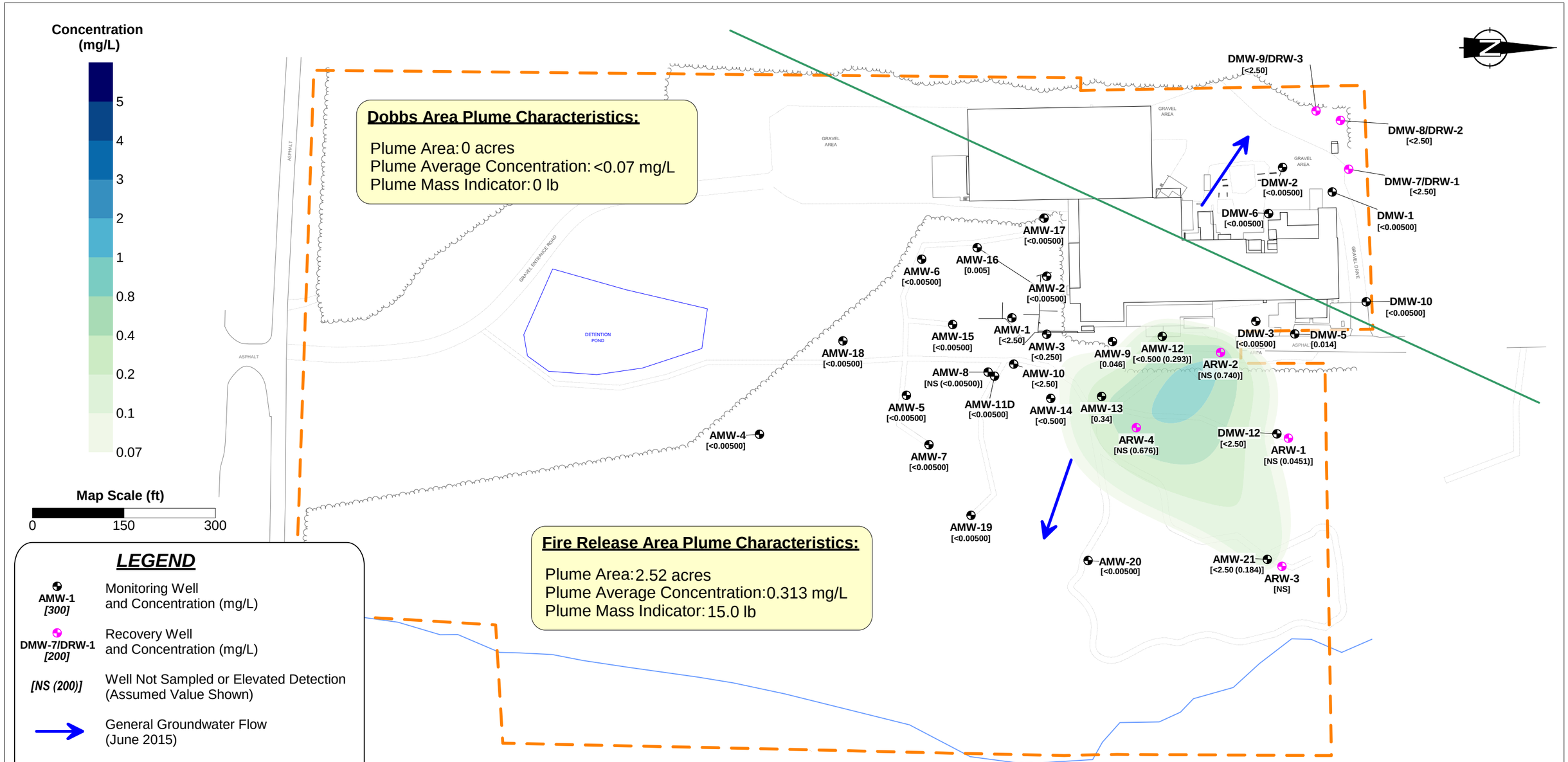
Appendix C
Plume Series Isopleth Maps
cis-1,2-Dichloroethene (cis-1,2-DCE)



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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2005

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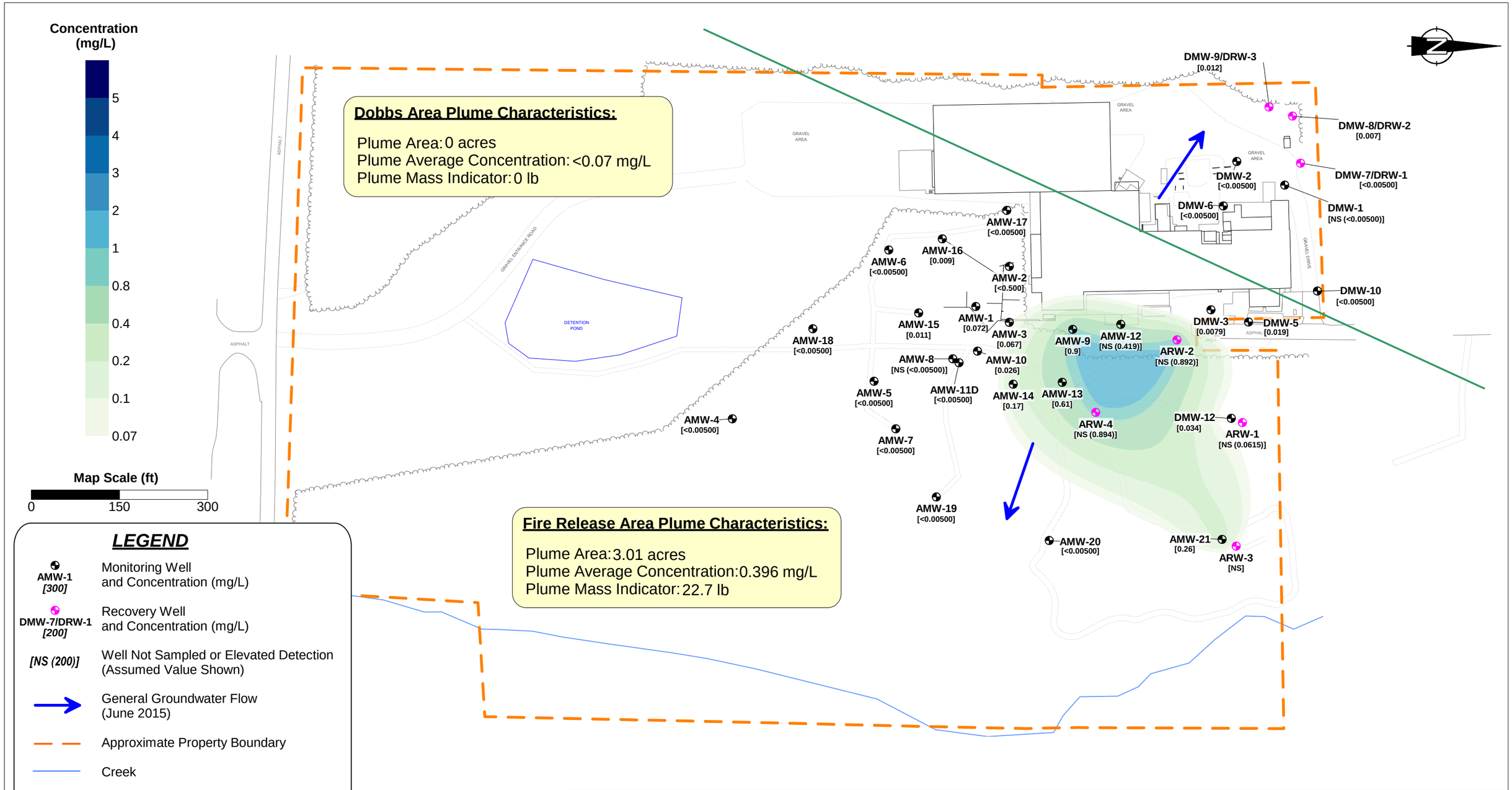

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2006

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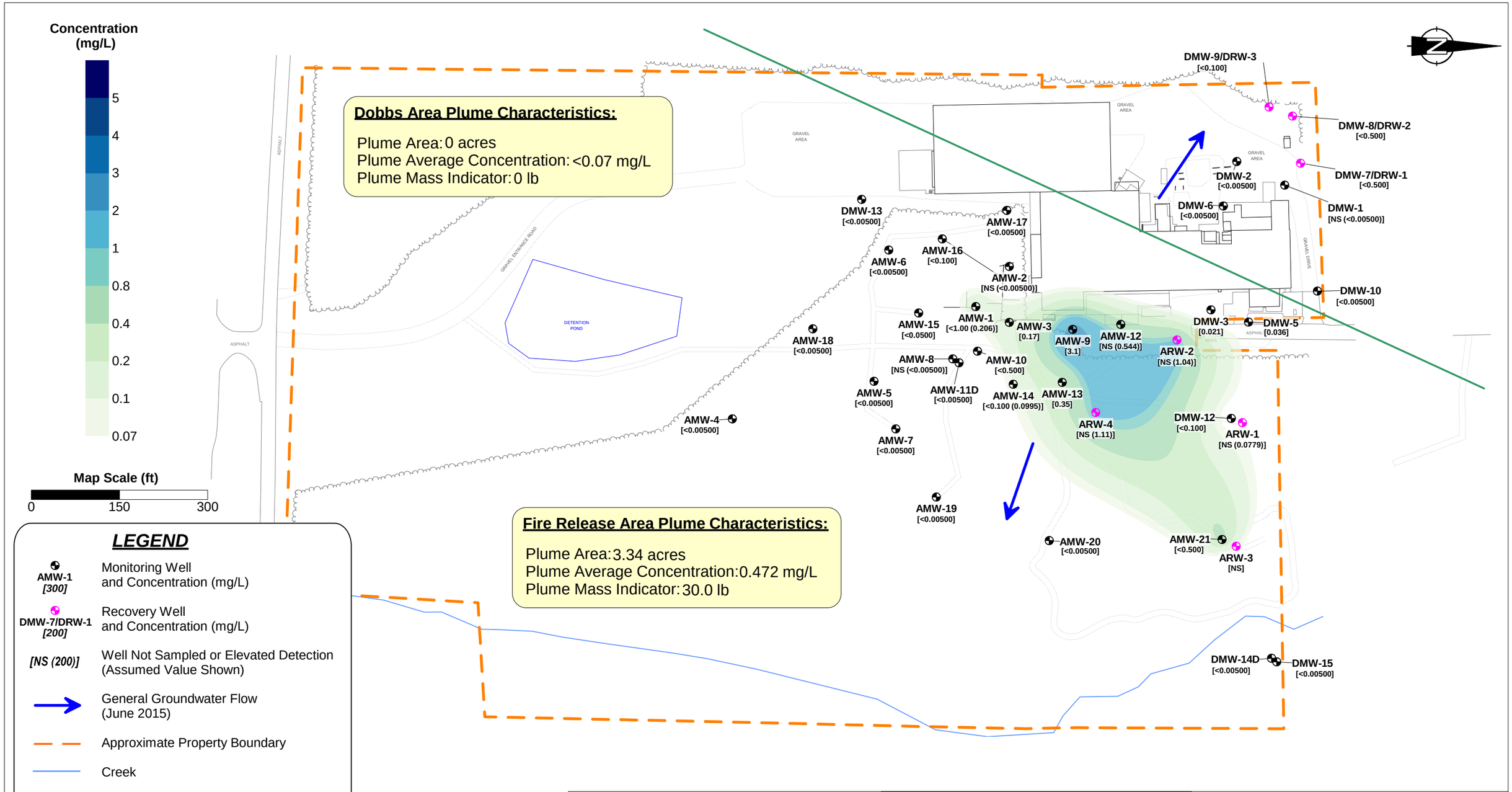

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2007

Prepared by: SNW Checked by: TOG Figure:

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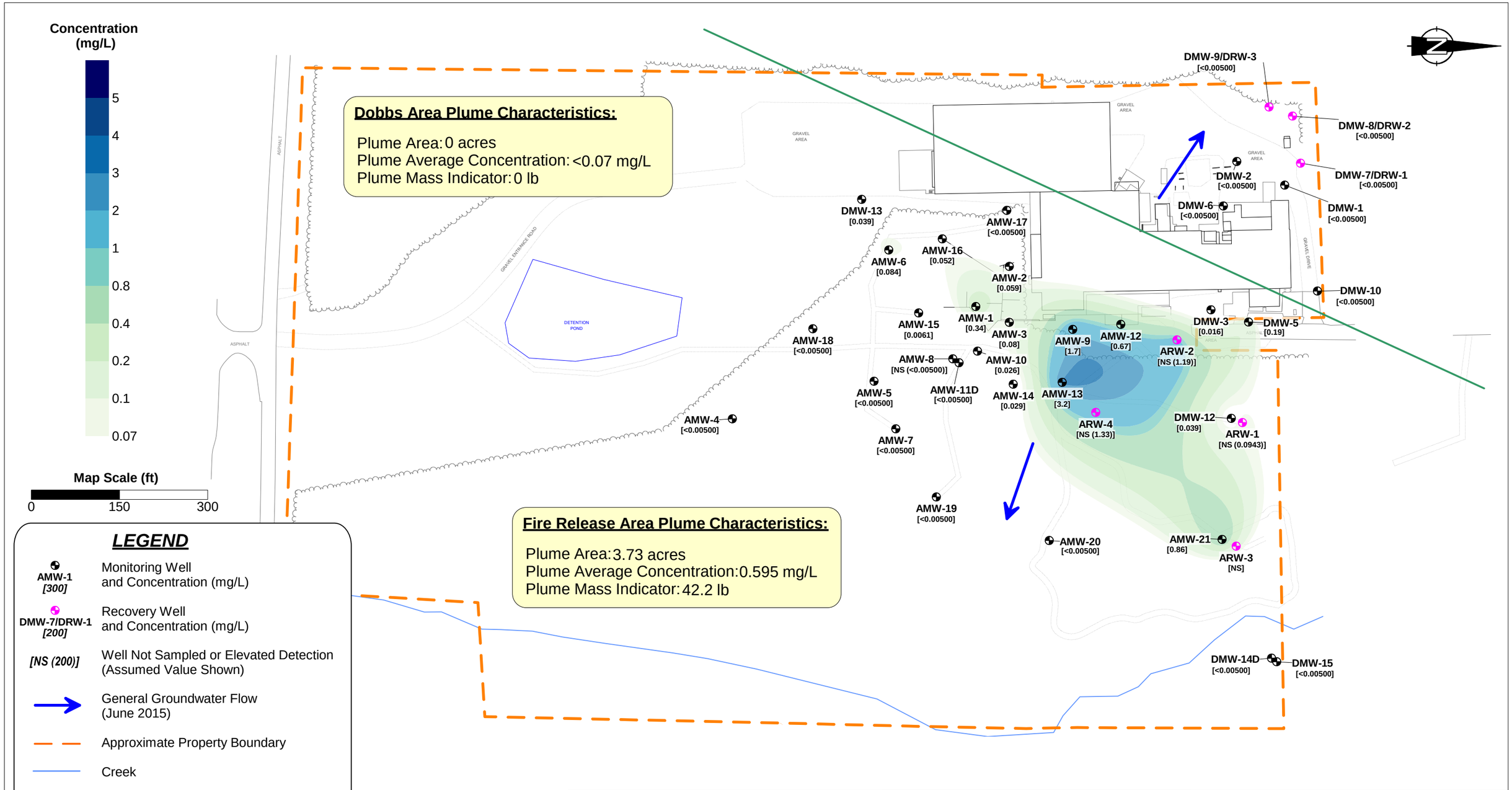

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2008

Prepared by: SNW Checked by: TOG Figure:

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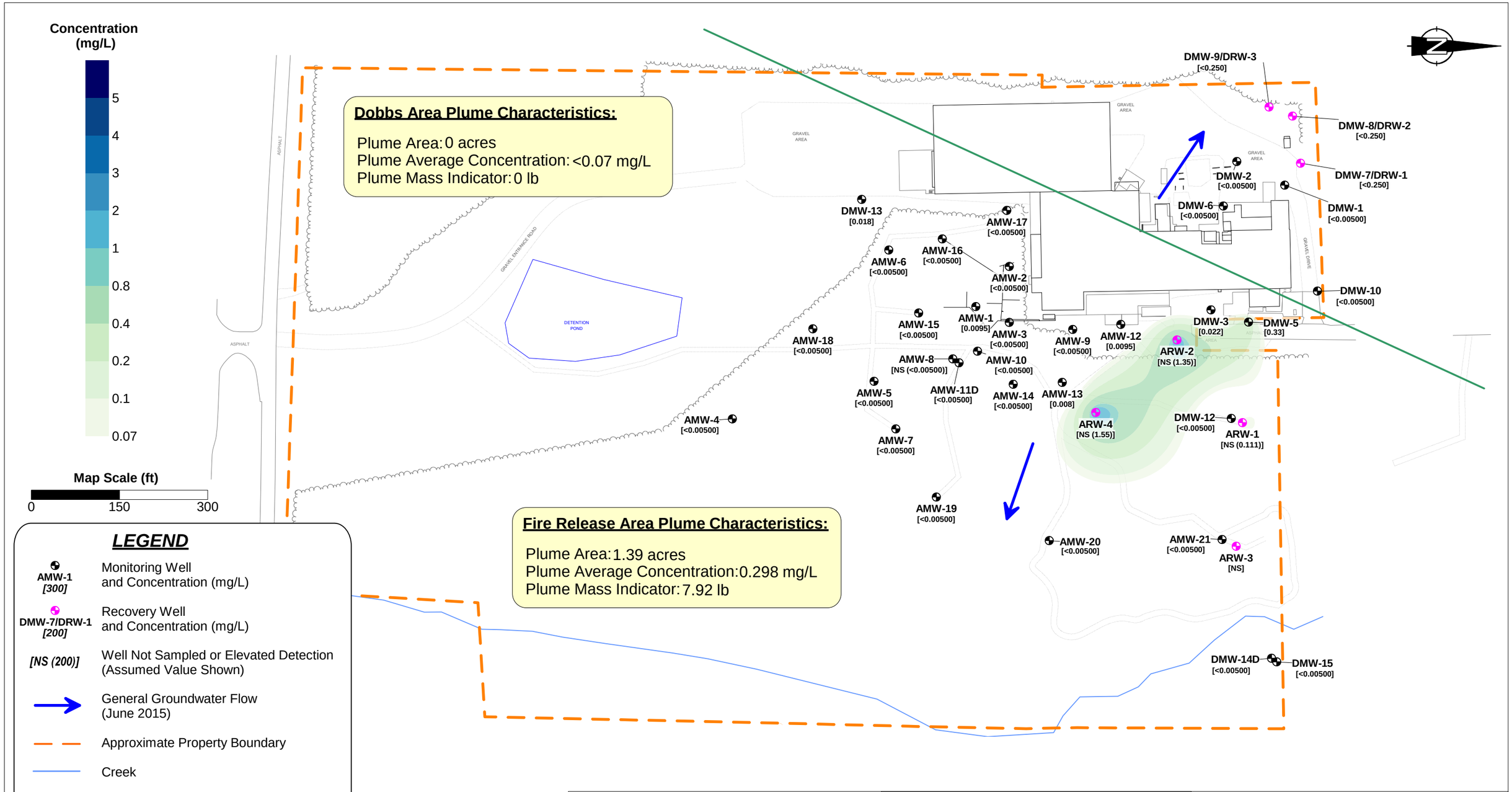

LEGEND

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DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
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Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2009

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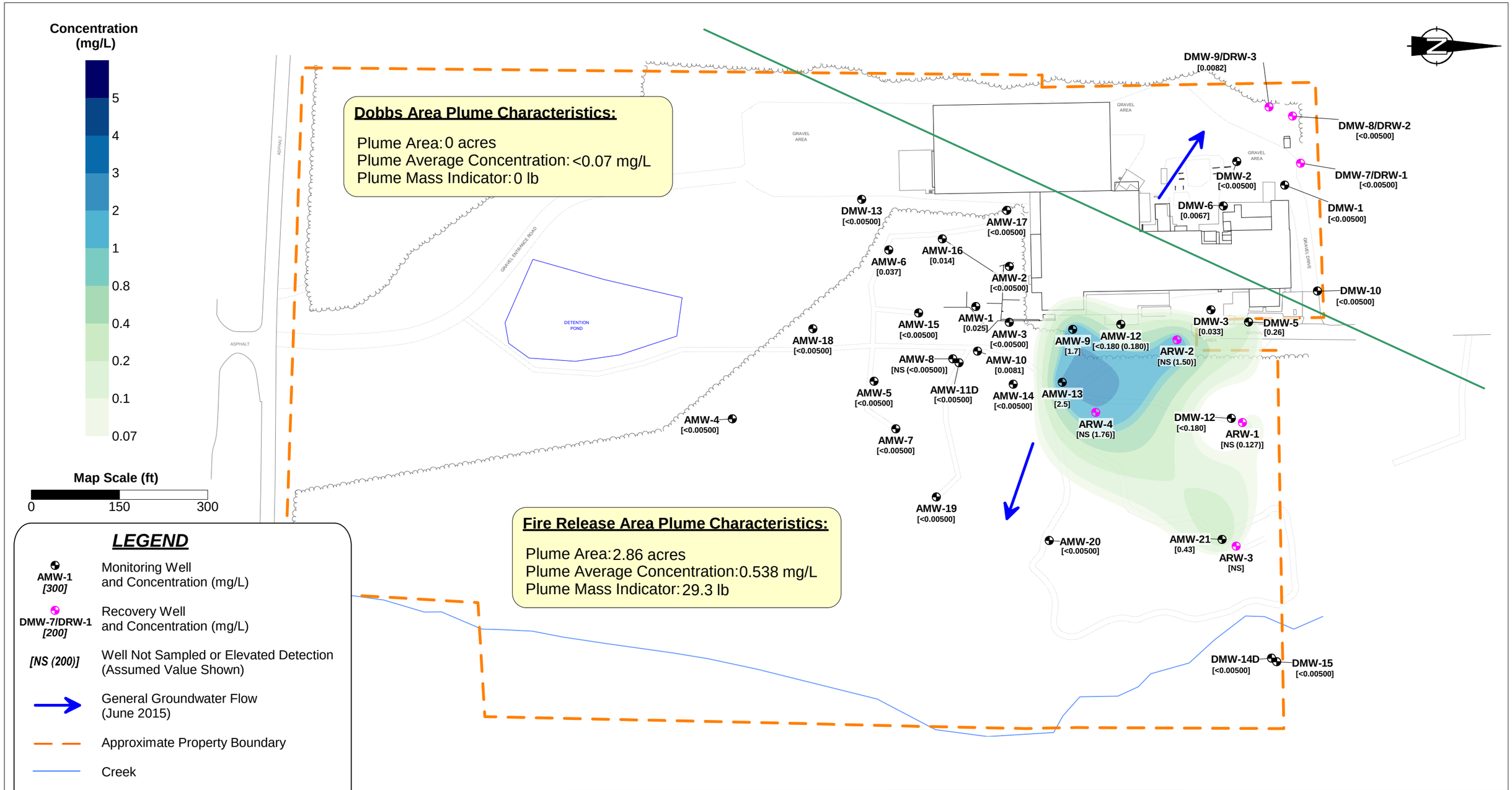

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2010

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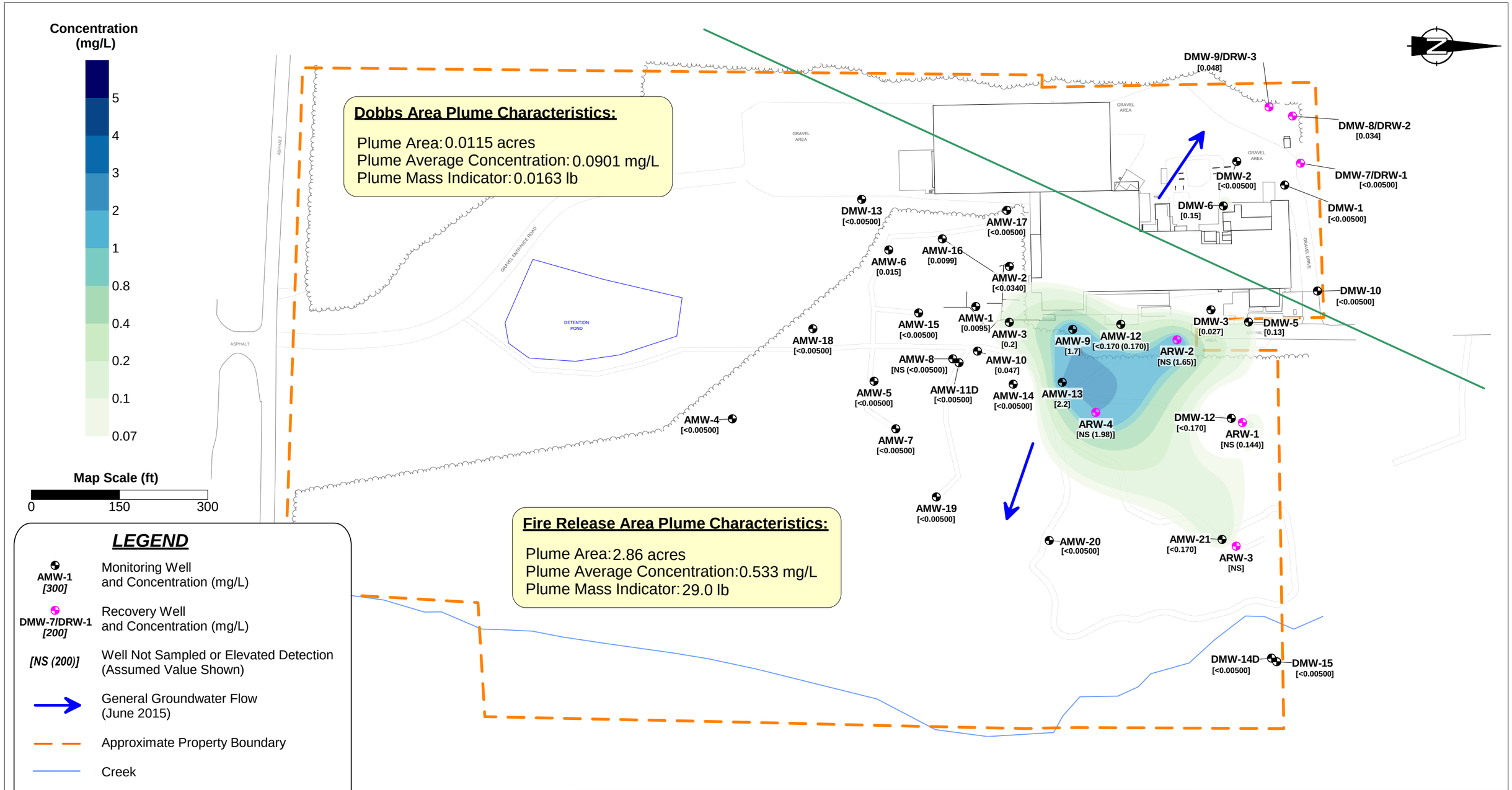

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2011

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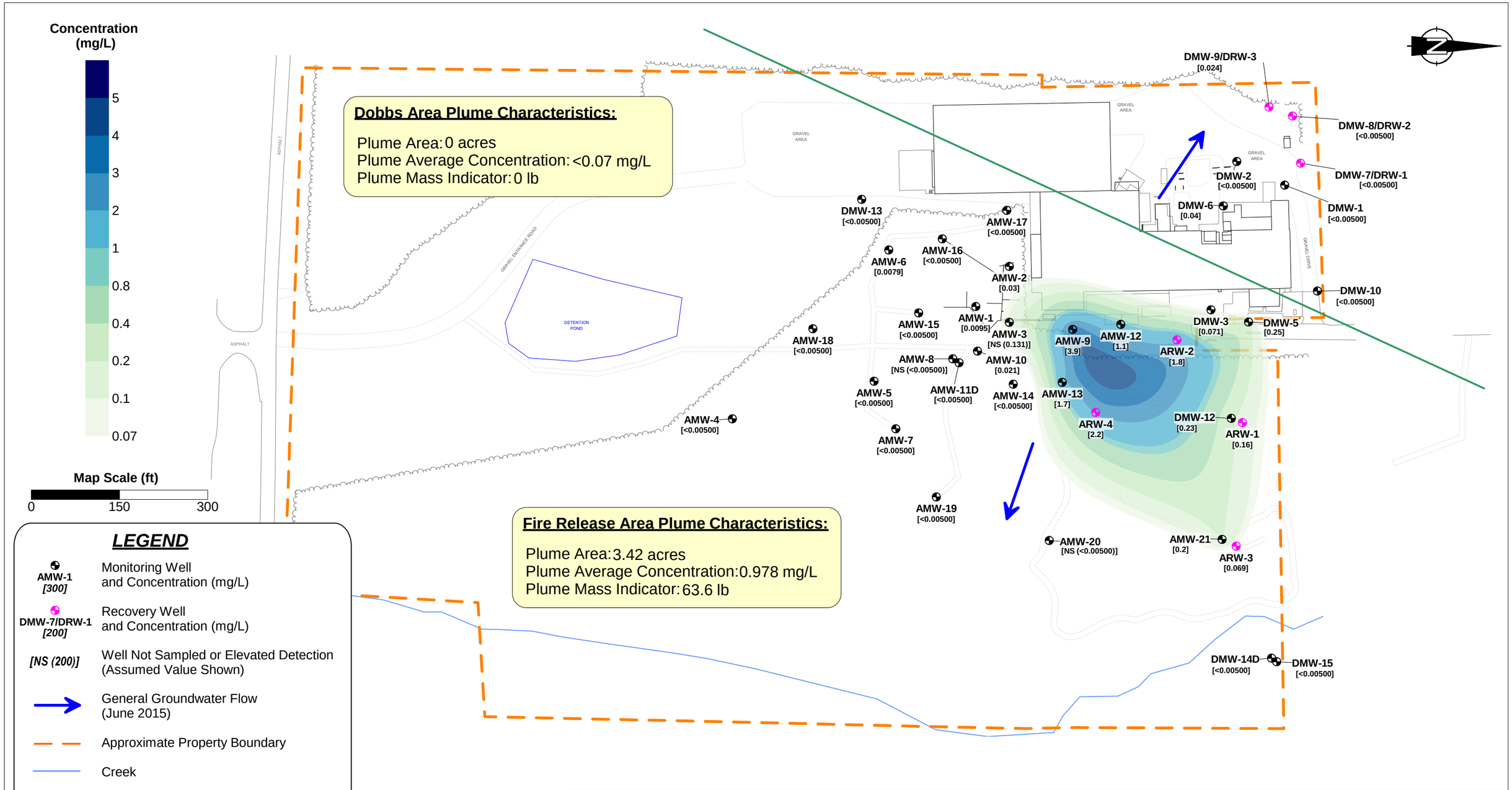

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2012

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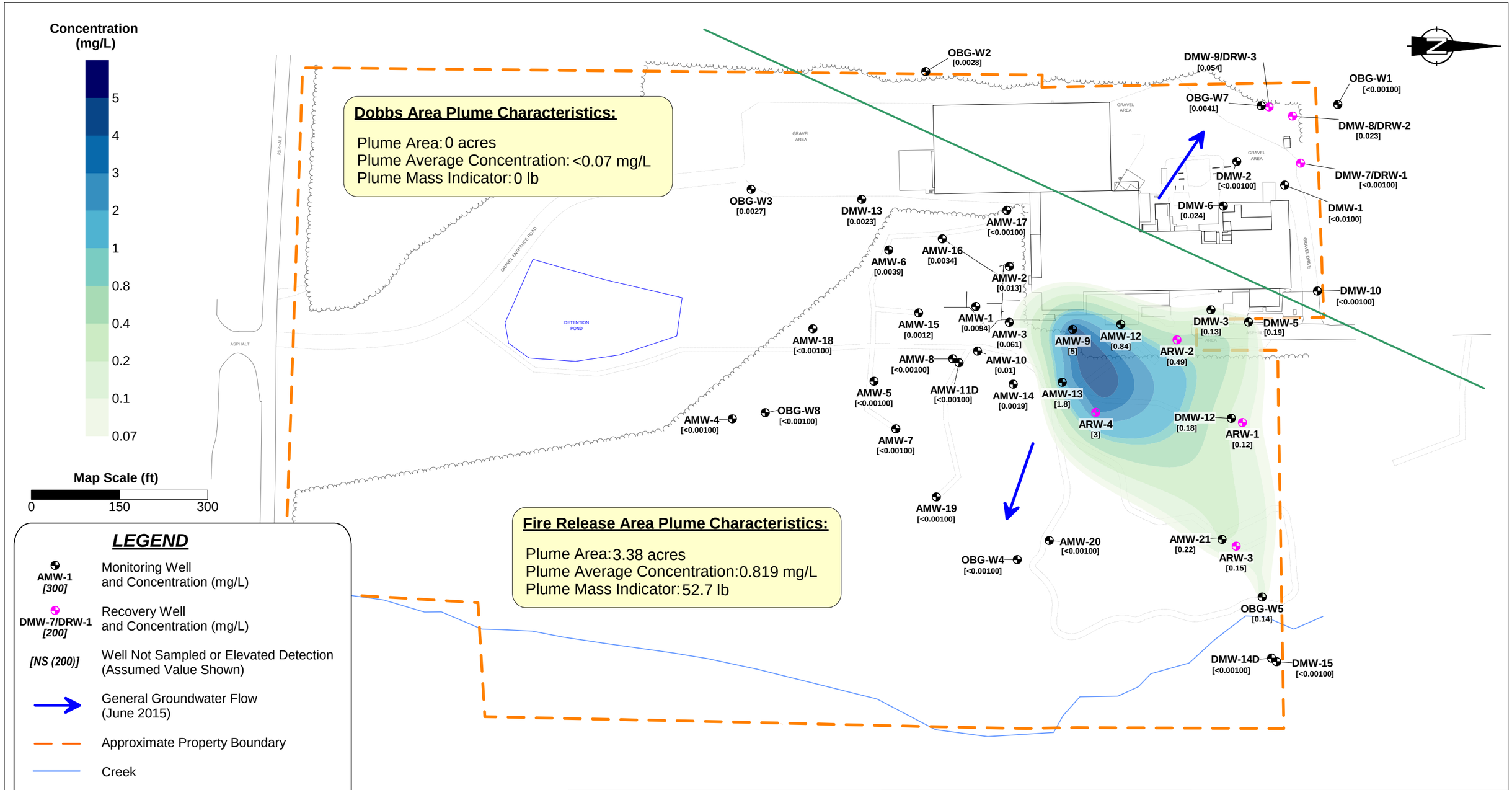

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
2013

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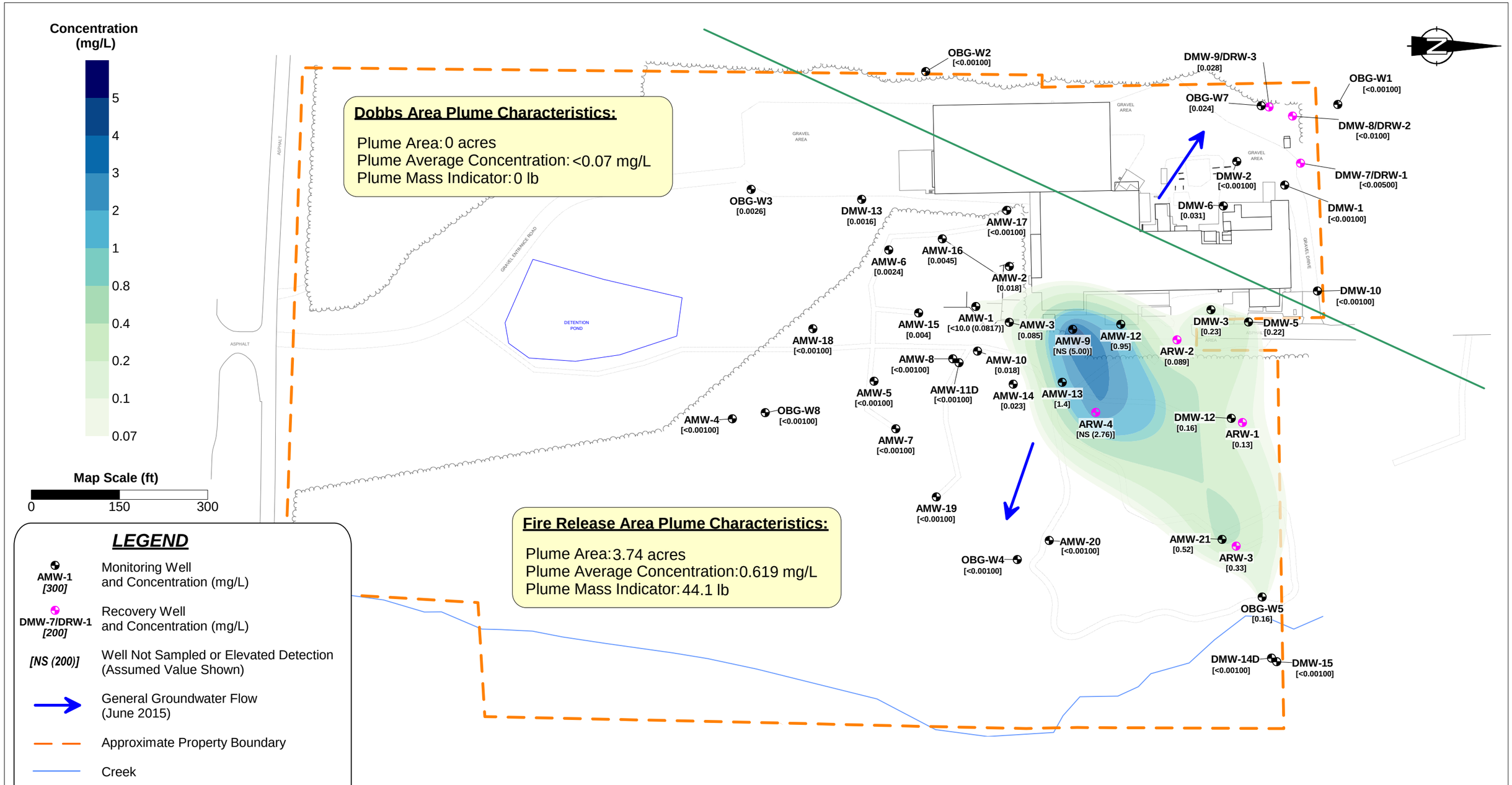

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(cis-1,2-DCE)
Jun-2014

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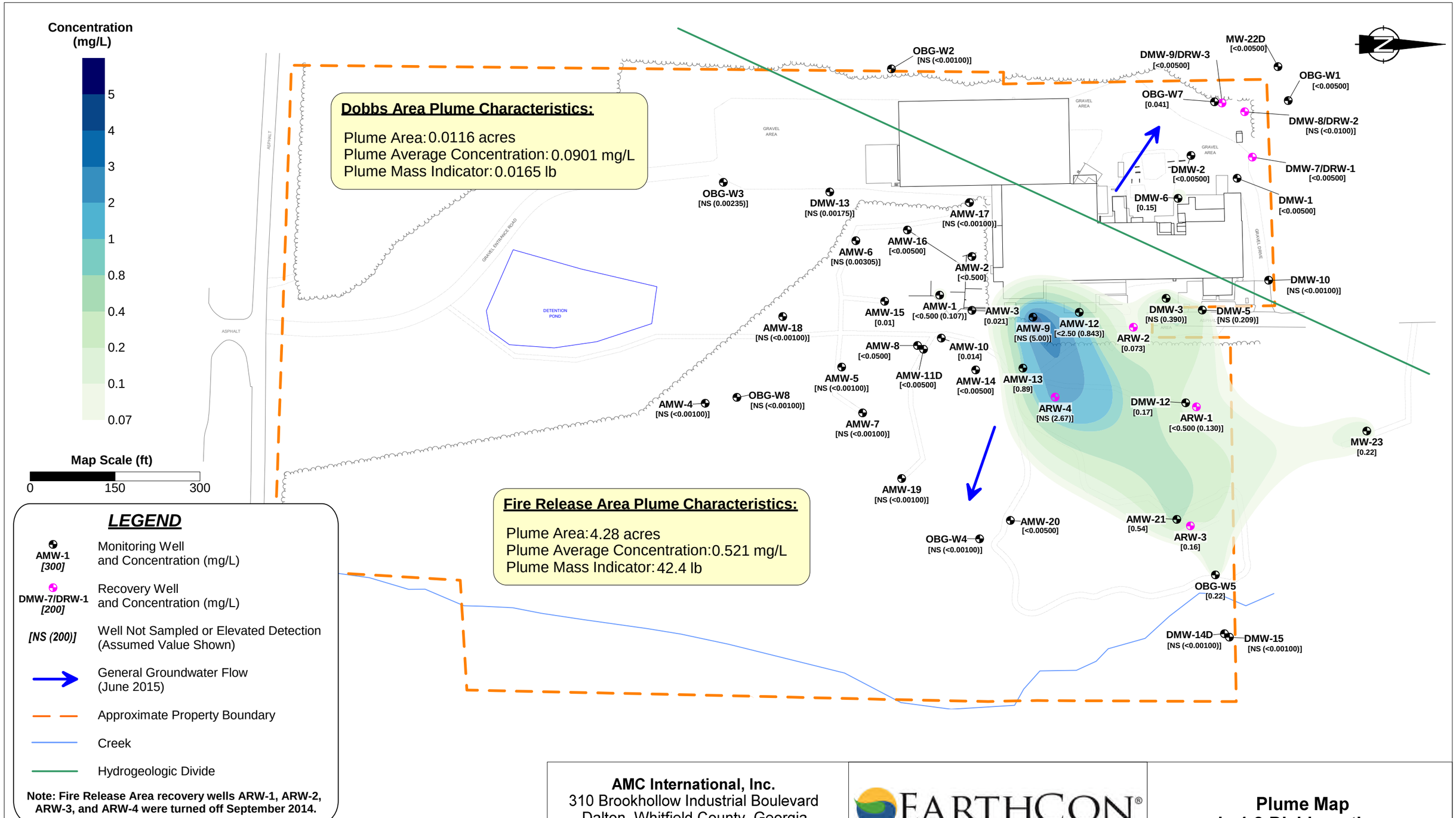

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Dec-2014

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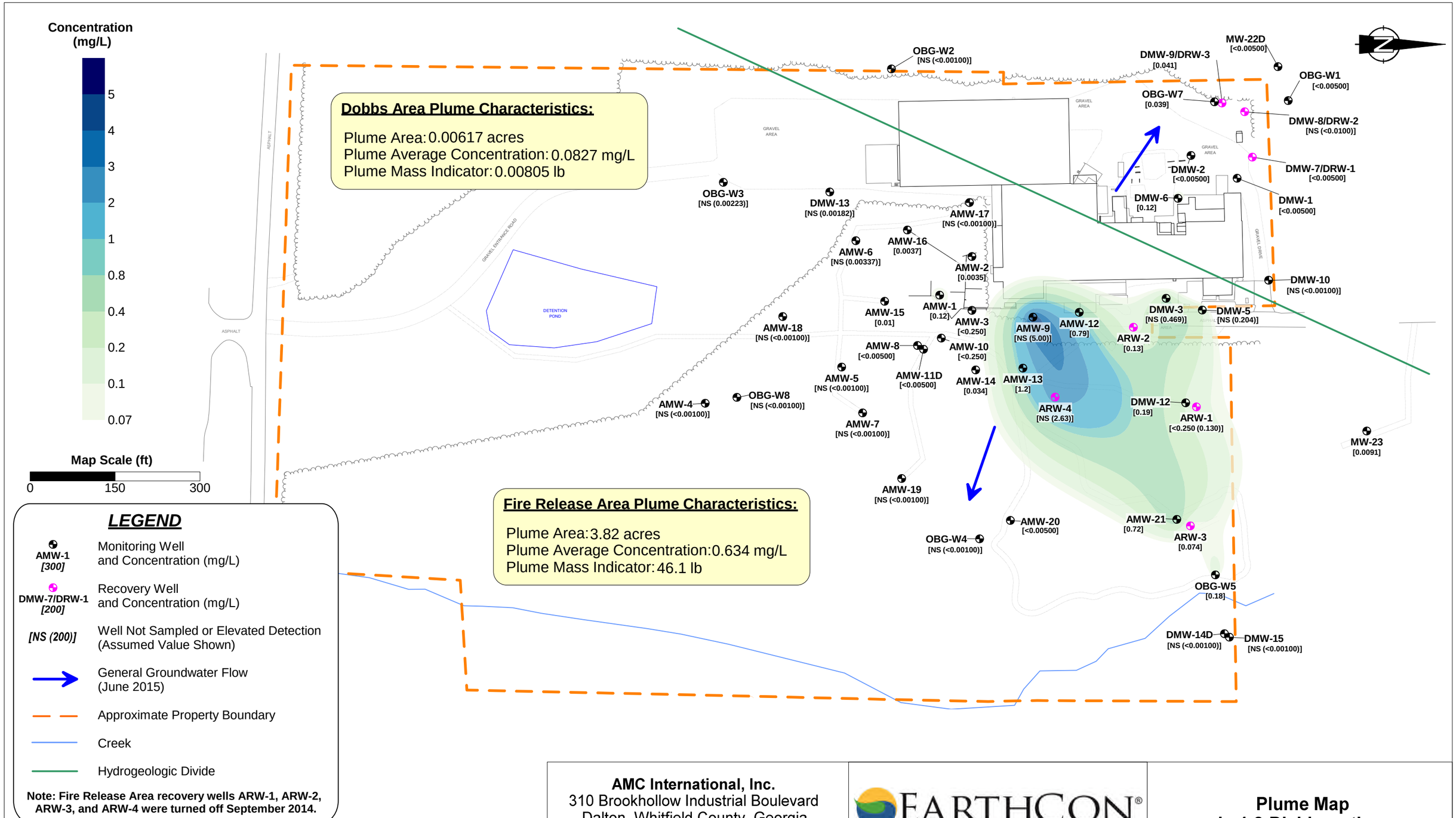

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Plume Map
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Mar-2015

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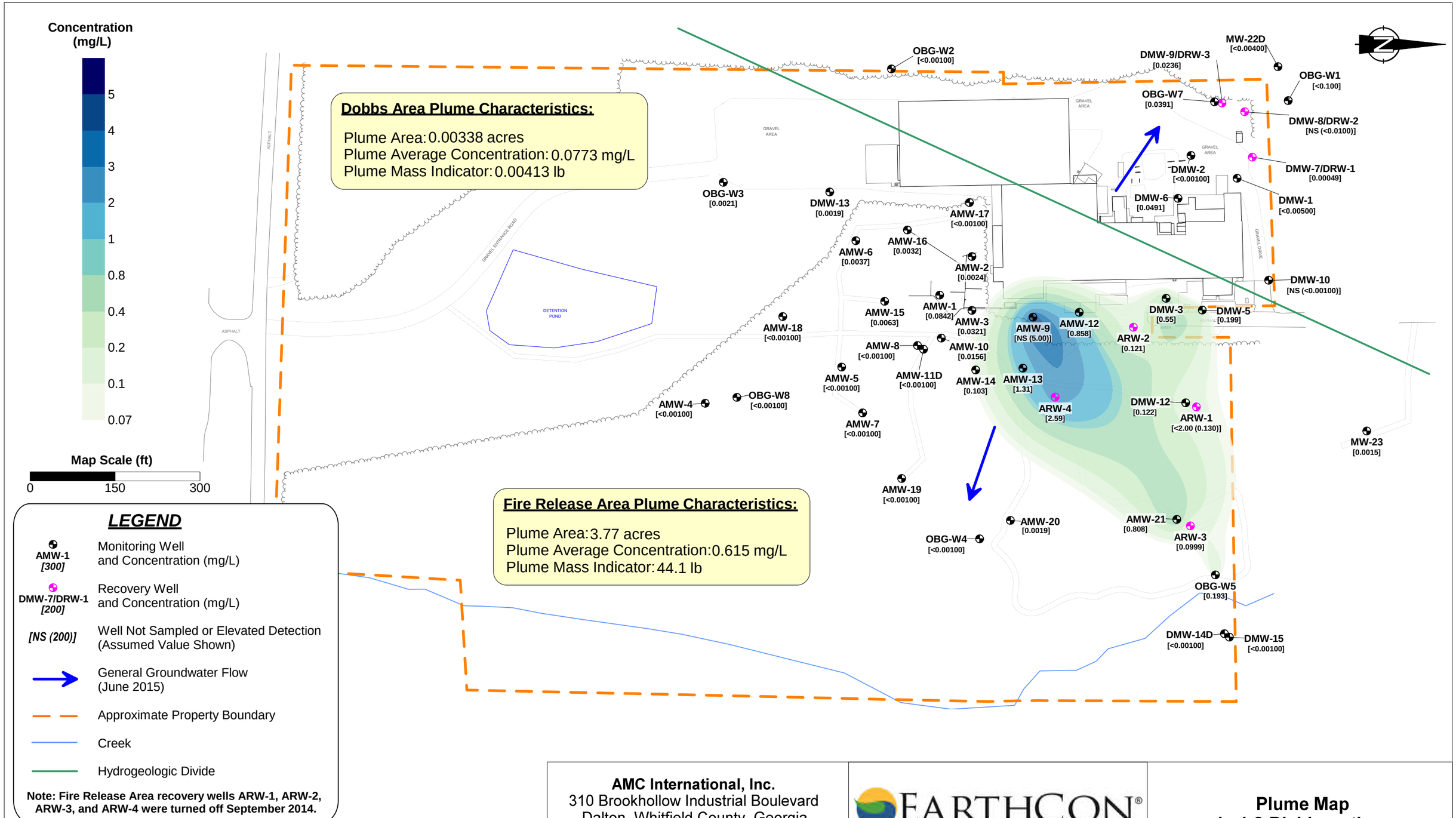

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cis-1,2-Dichloroethene
(cis-1,2-DCE)
Jun-2015

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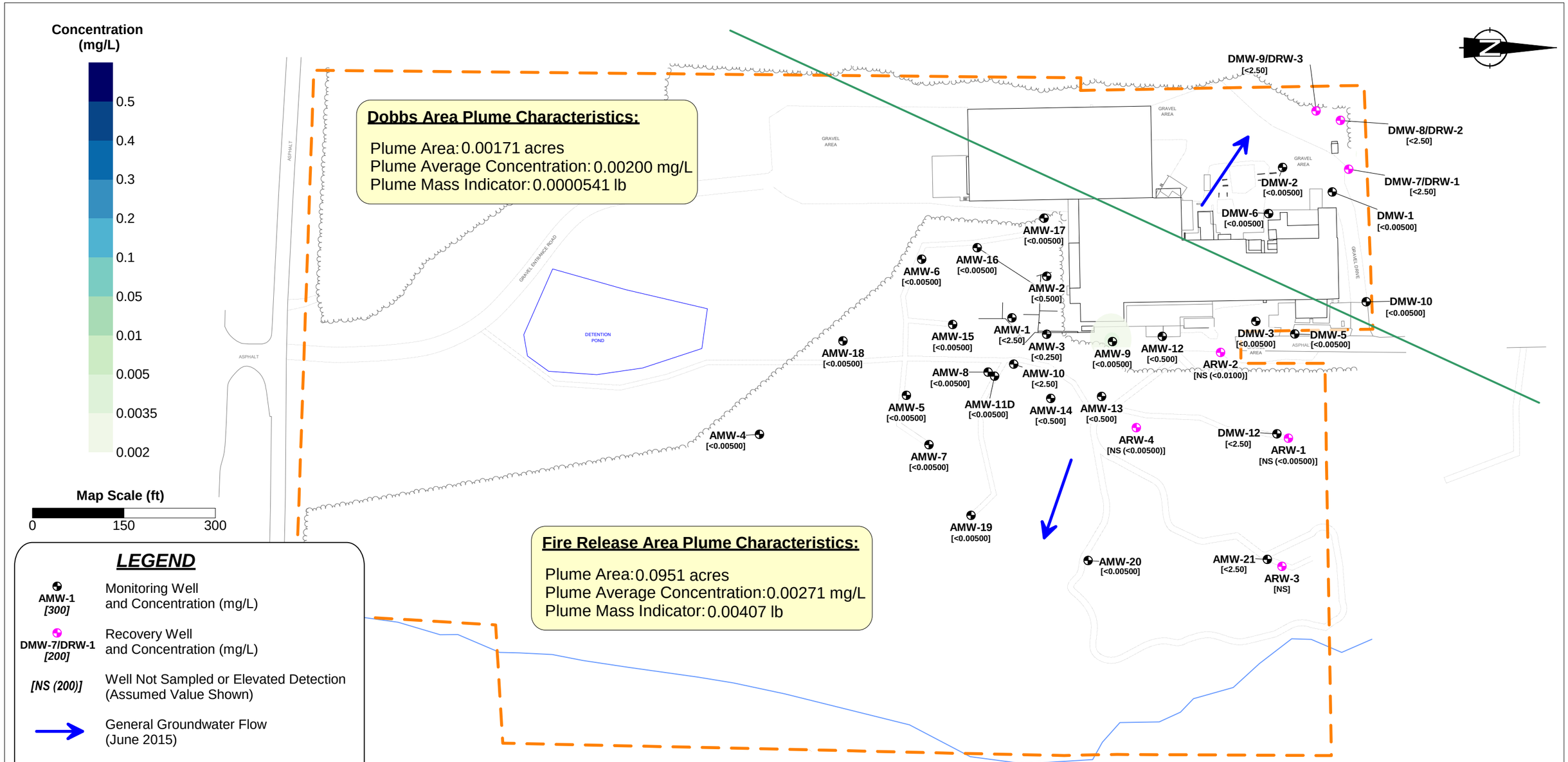
Appendix D
Plume Series Isopleth Maps
Vinyl Chloride (VC)



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Plume Map
Vinyl Chloride (VC)
2005

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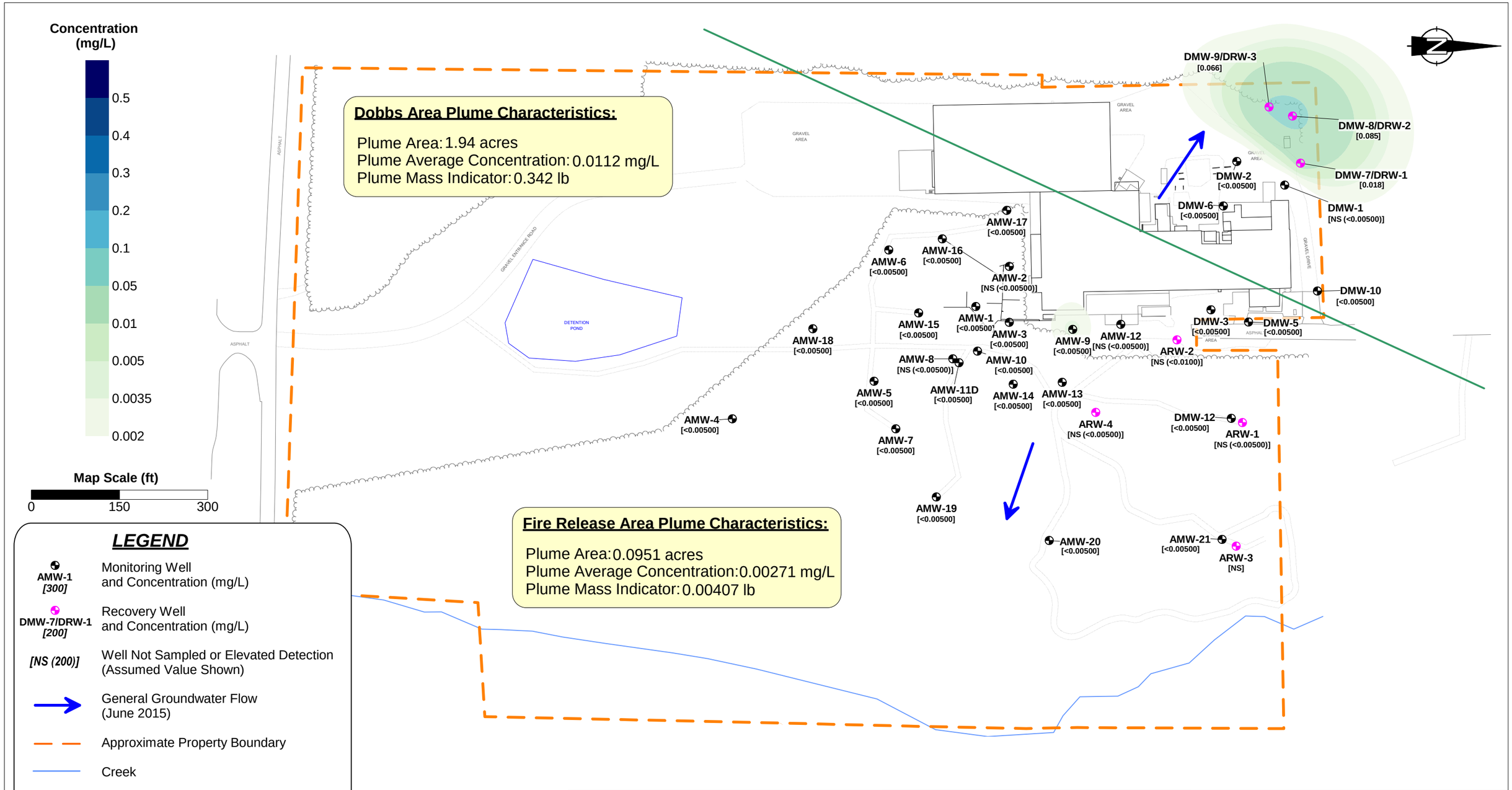

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Plume Map
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2006

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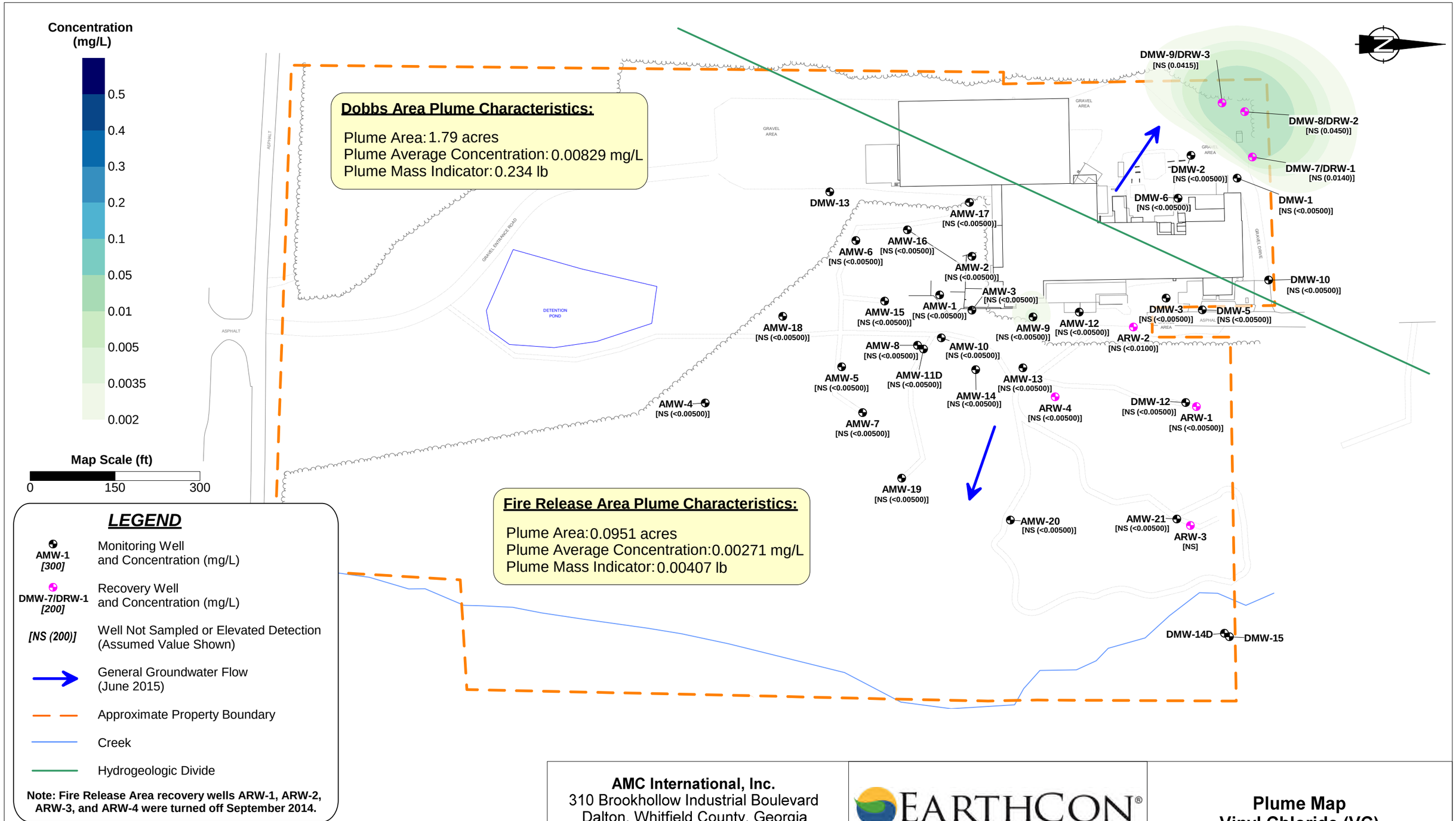

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Plume Map
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2007

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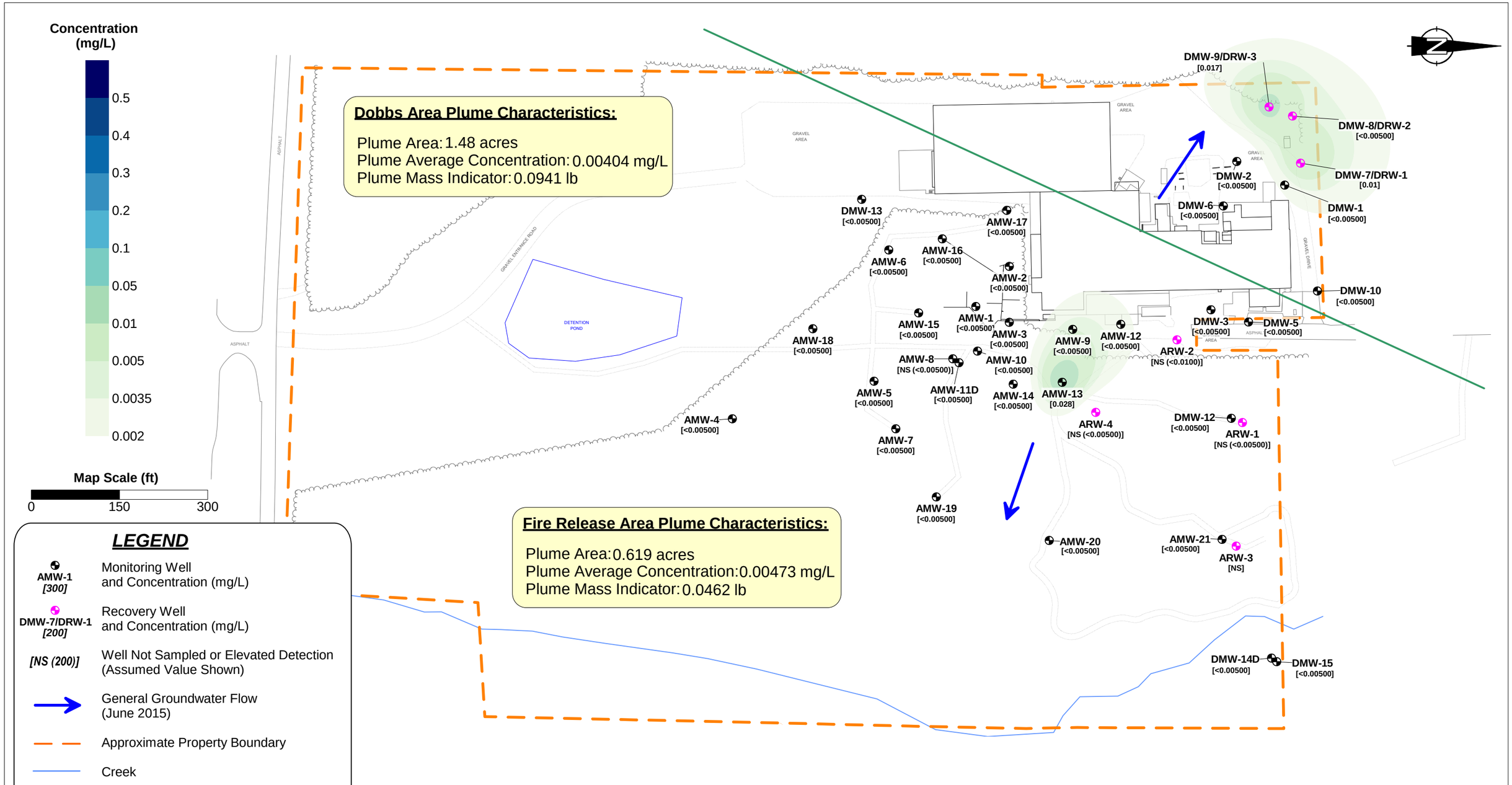

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Plume Map
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2008

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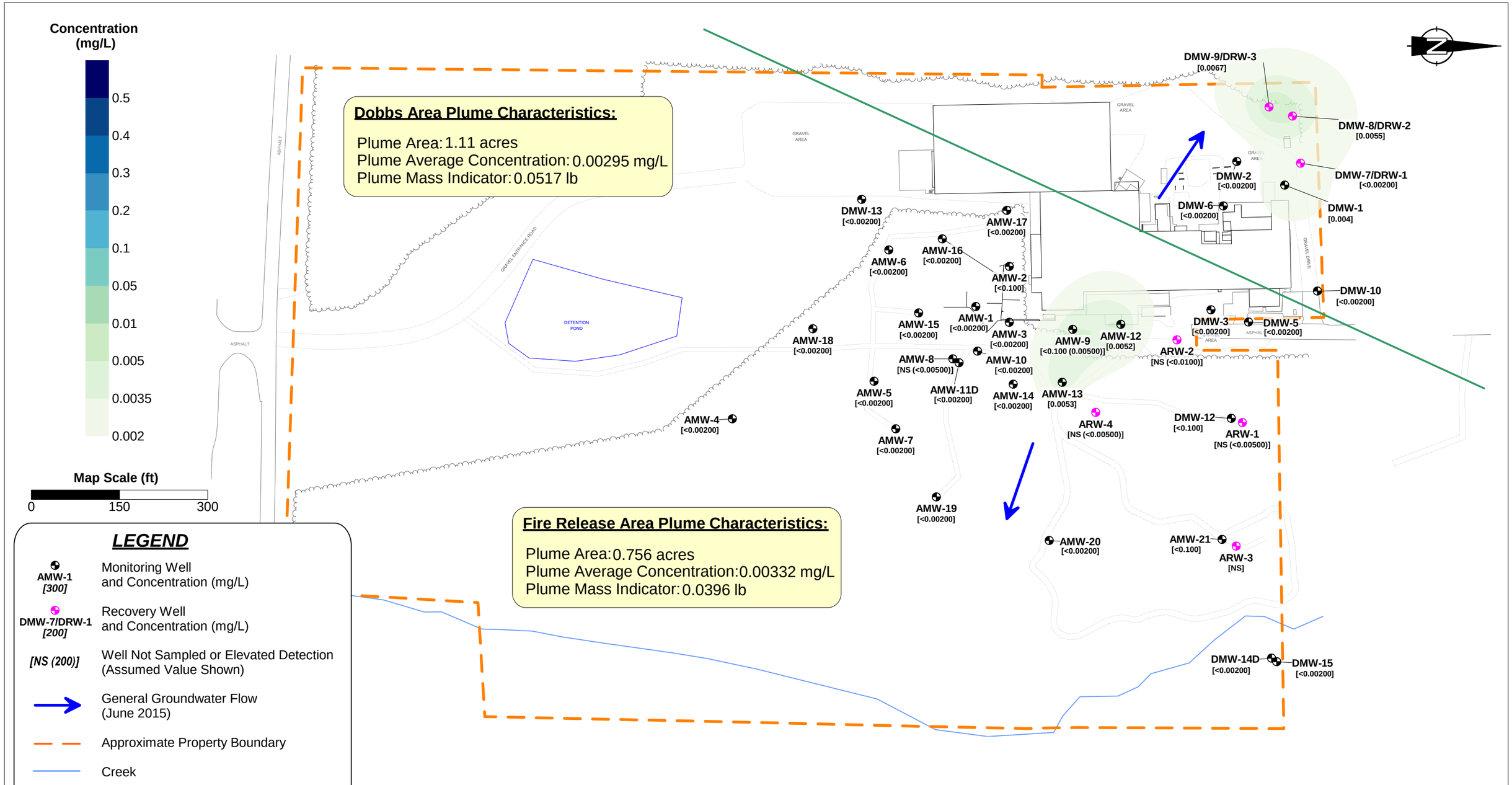

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Plume Map
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2009

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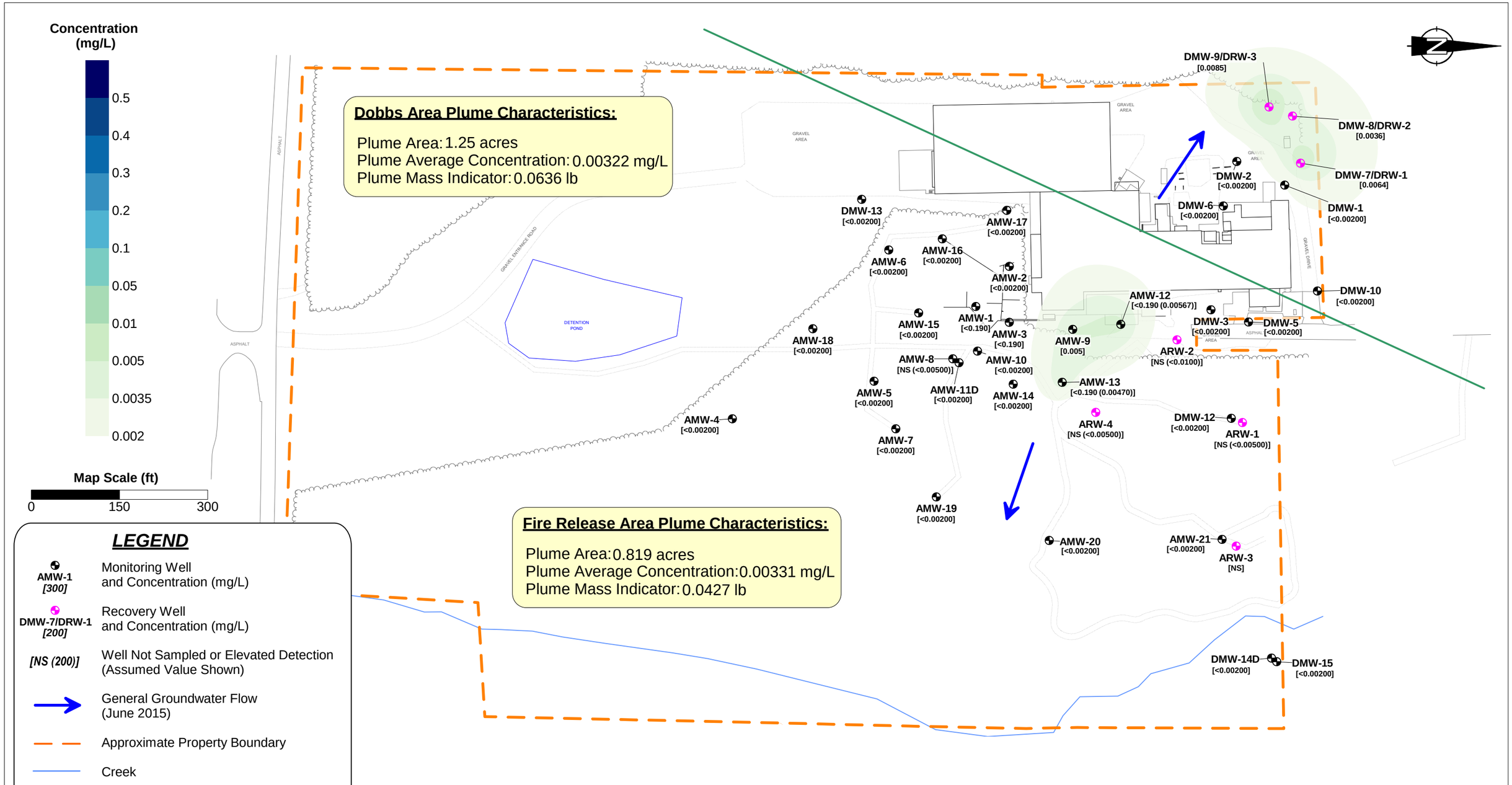

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2010

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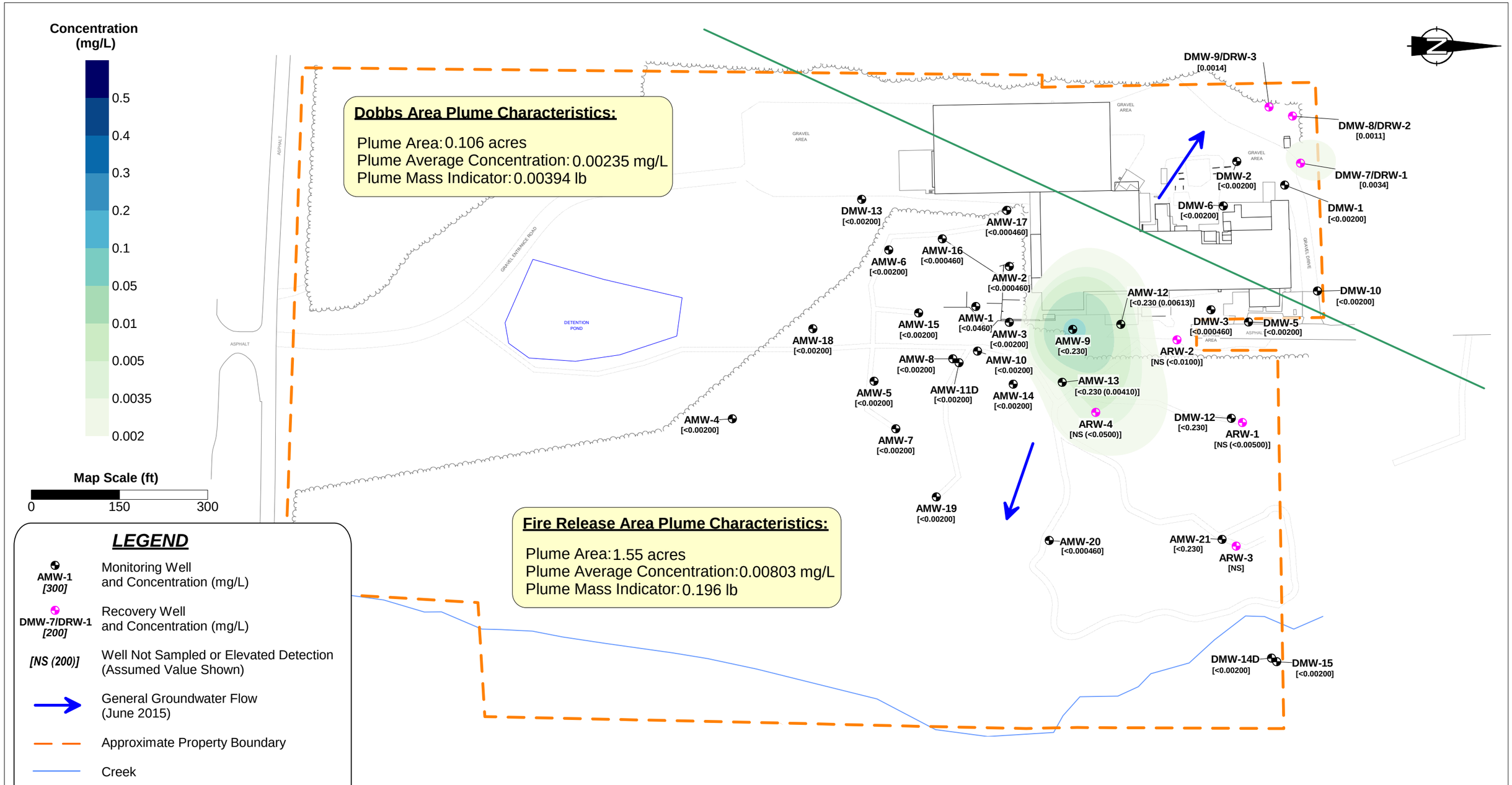

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Plume Map
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2011

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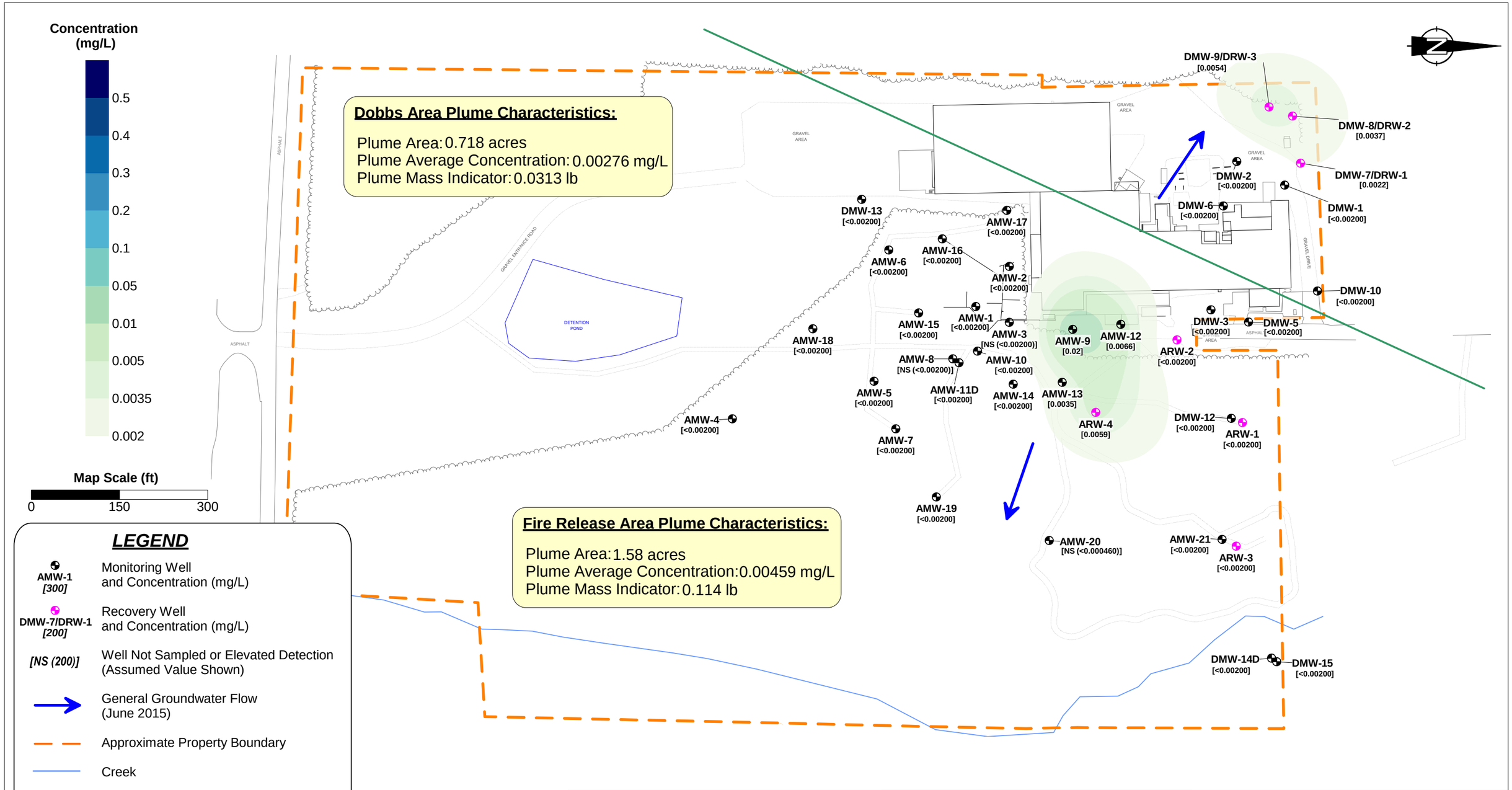

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Plume Map
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2012

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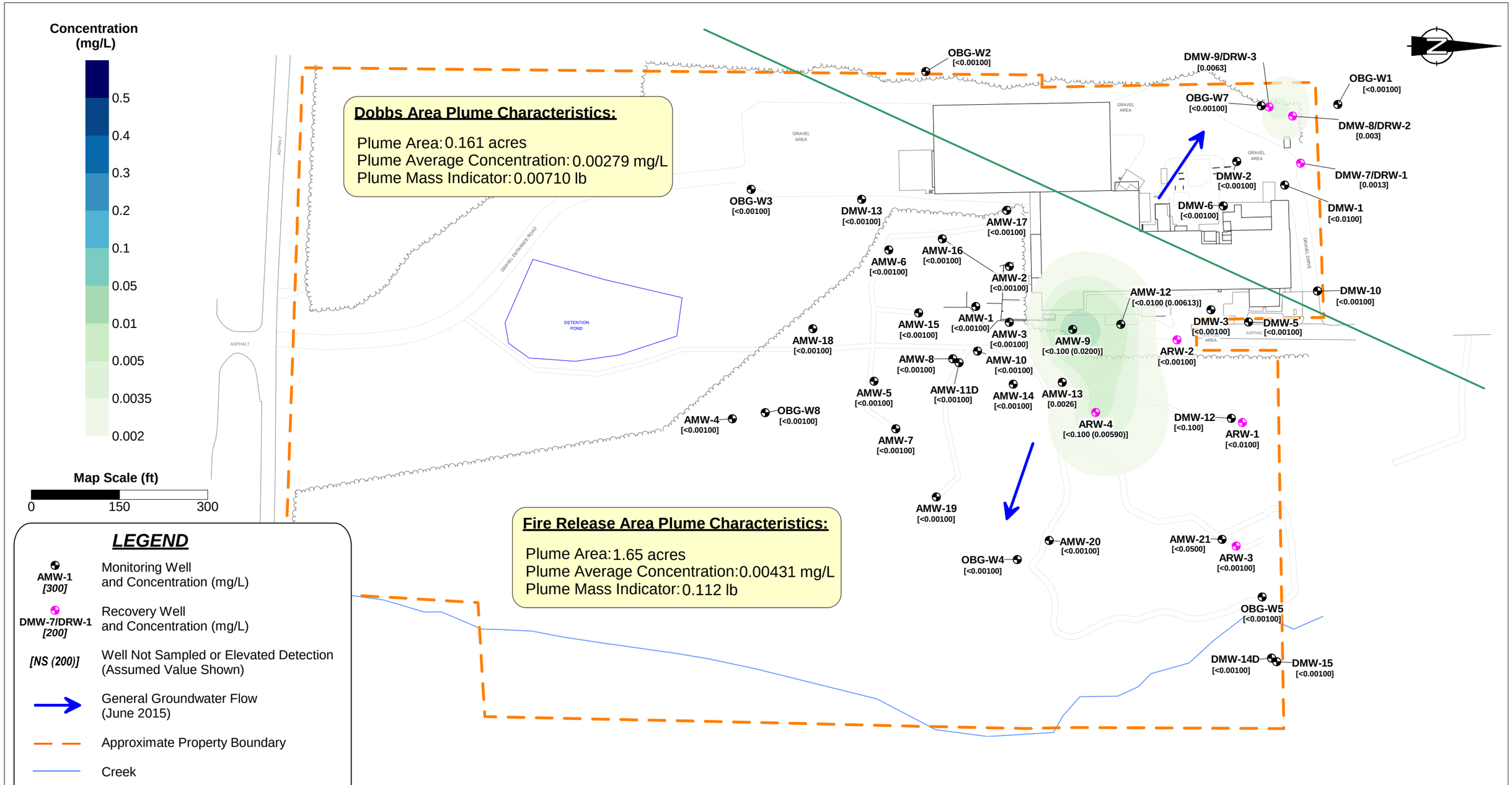

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Plume Map
Vinyl Chloride (VC)
2013

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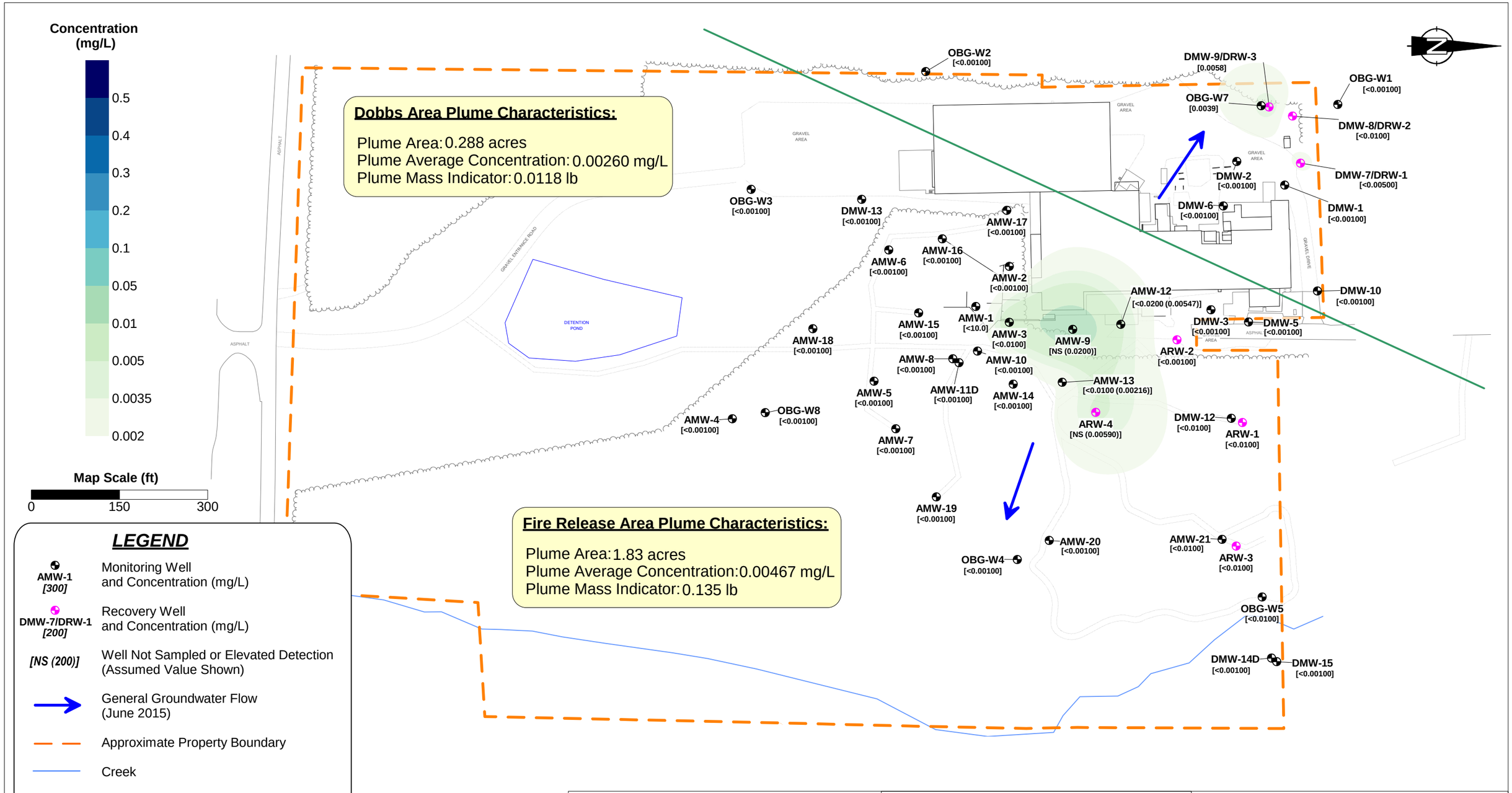

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Plume Map
Vinyl Chloride (VC)
Jun-2014

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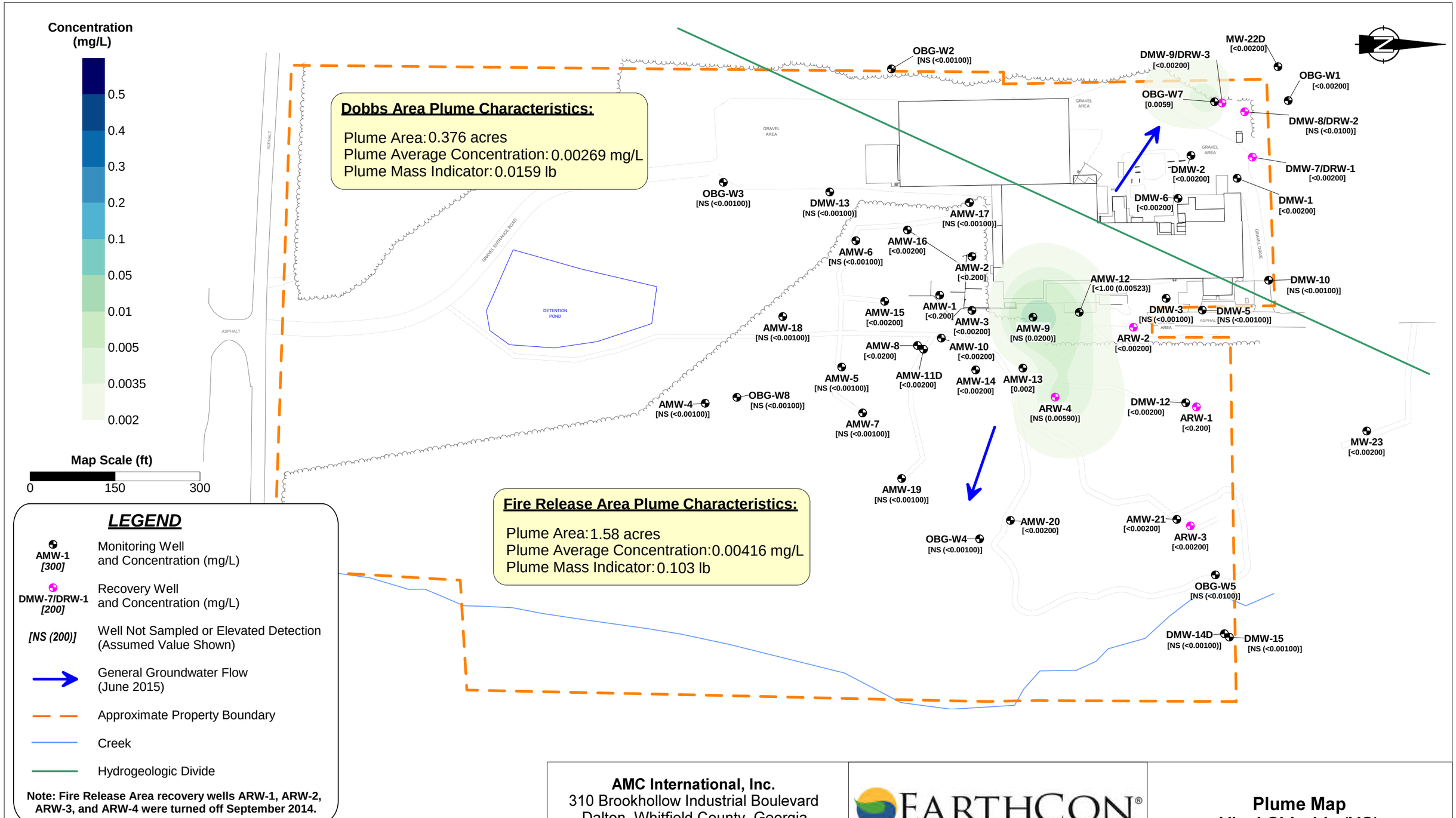

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Dec-2014

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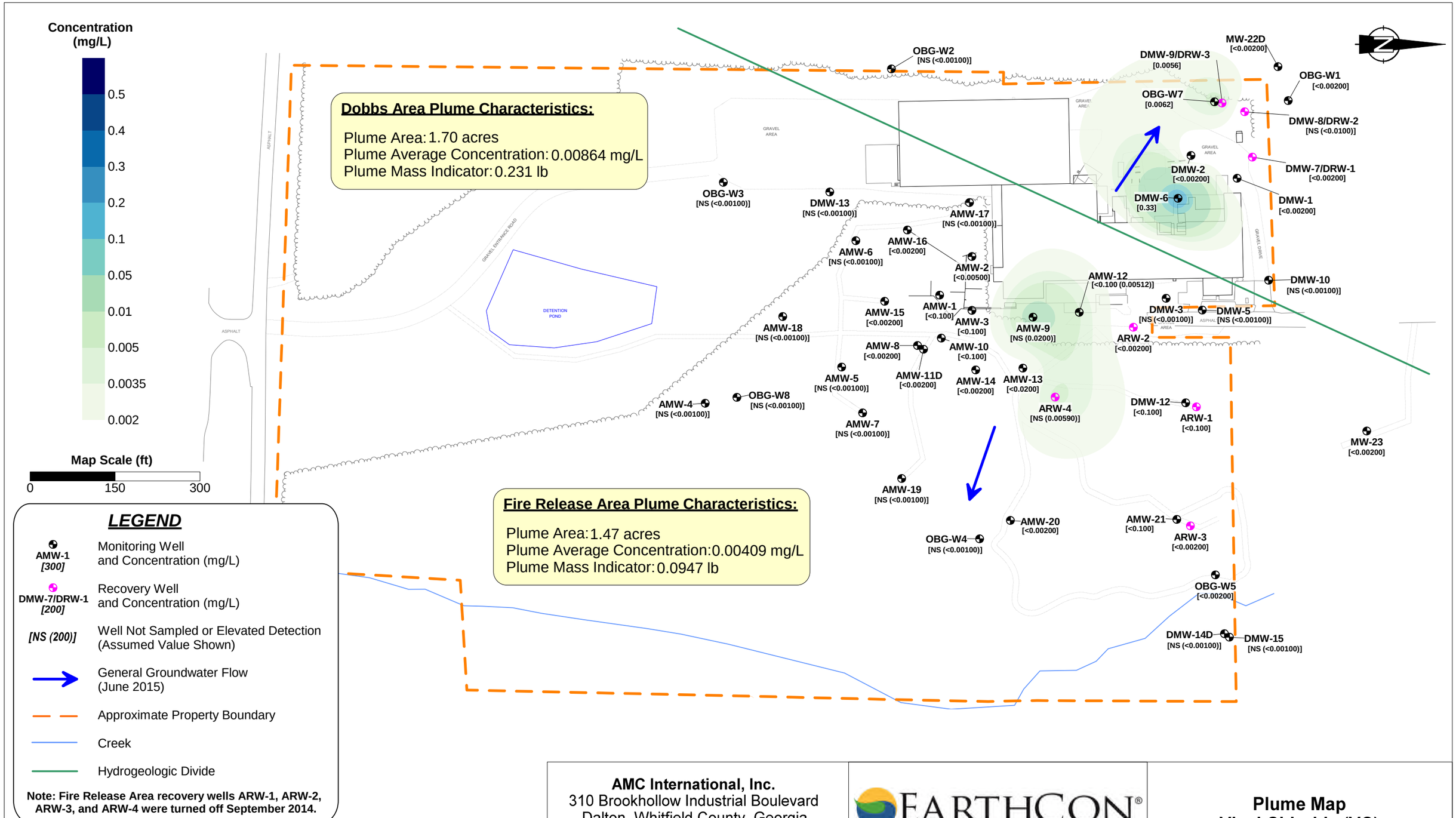

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Mar-2015

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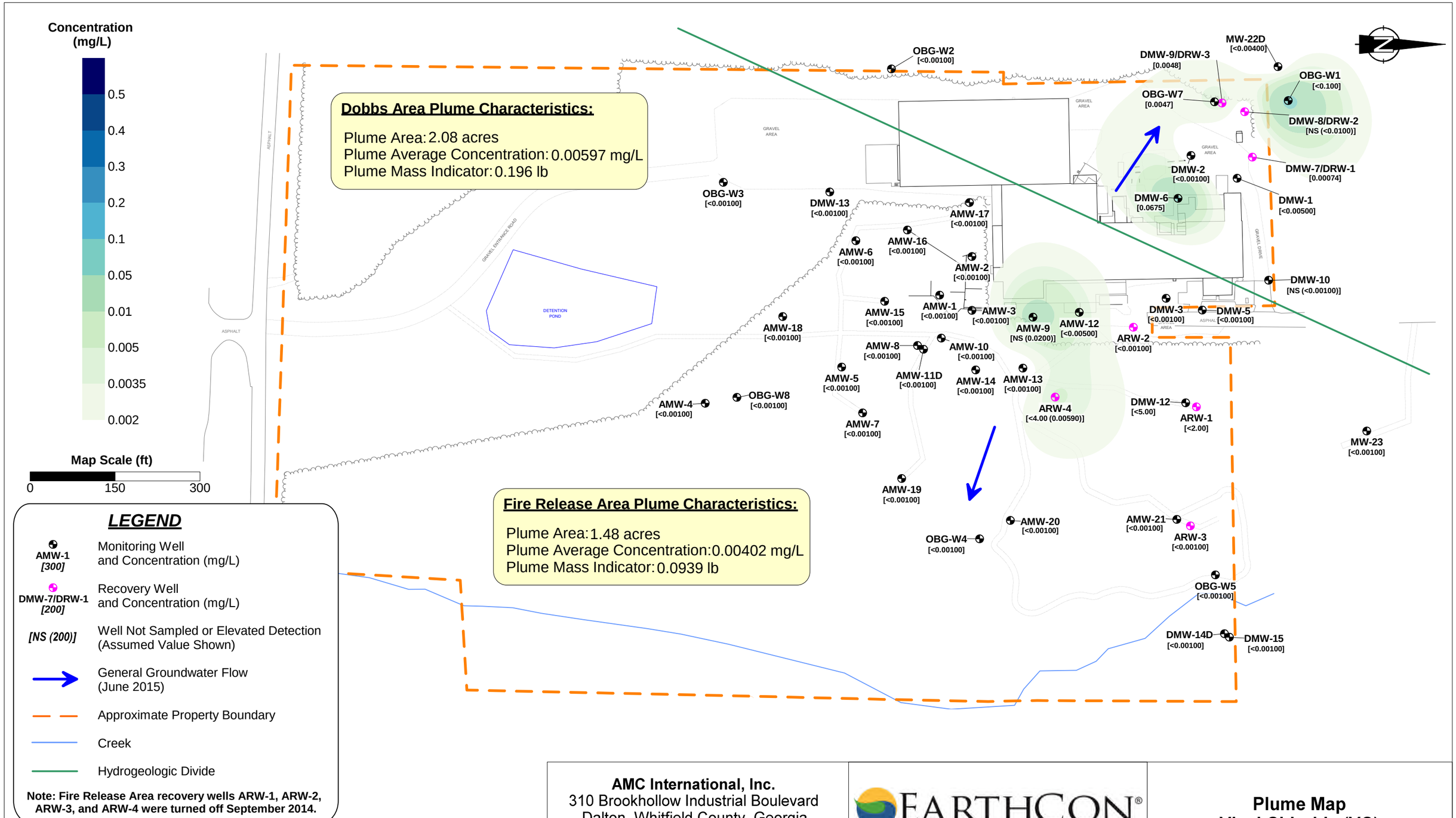

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Plume Map
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Jun-2015

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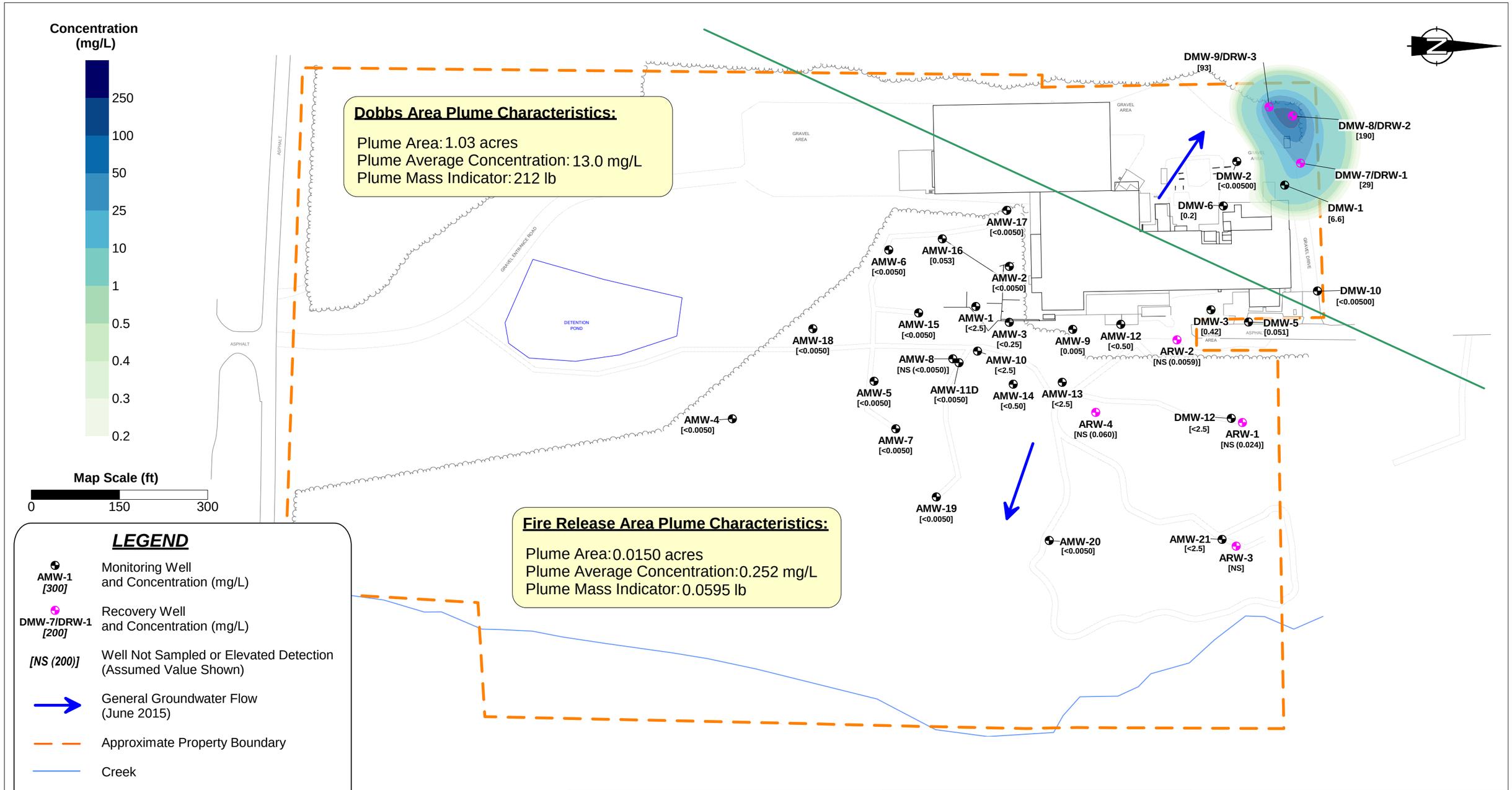
Appendix E
Plume Series Isopleth Maps
1,1,1-Trichloroethane (1,1,1-TCA)



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Project Number: 02.20140392.00

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Marietta, Georgia 30062

Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
2005

Prepared by: SNW Checked by: TOG Figure:

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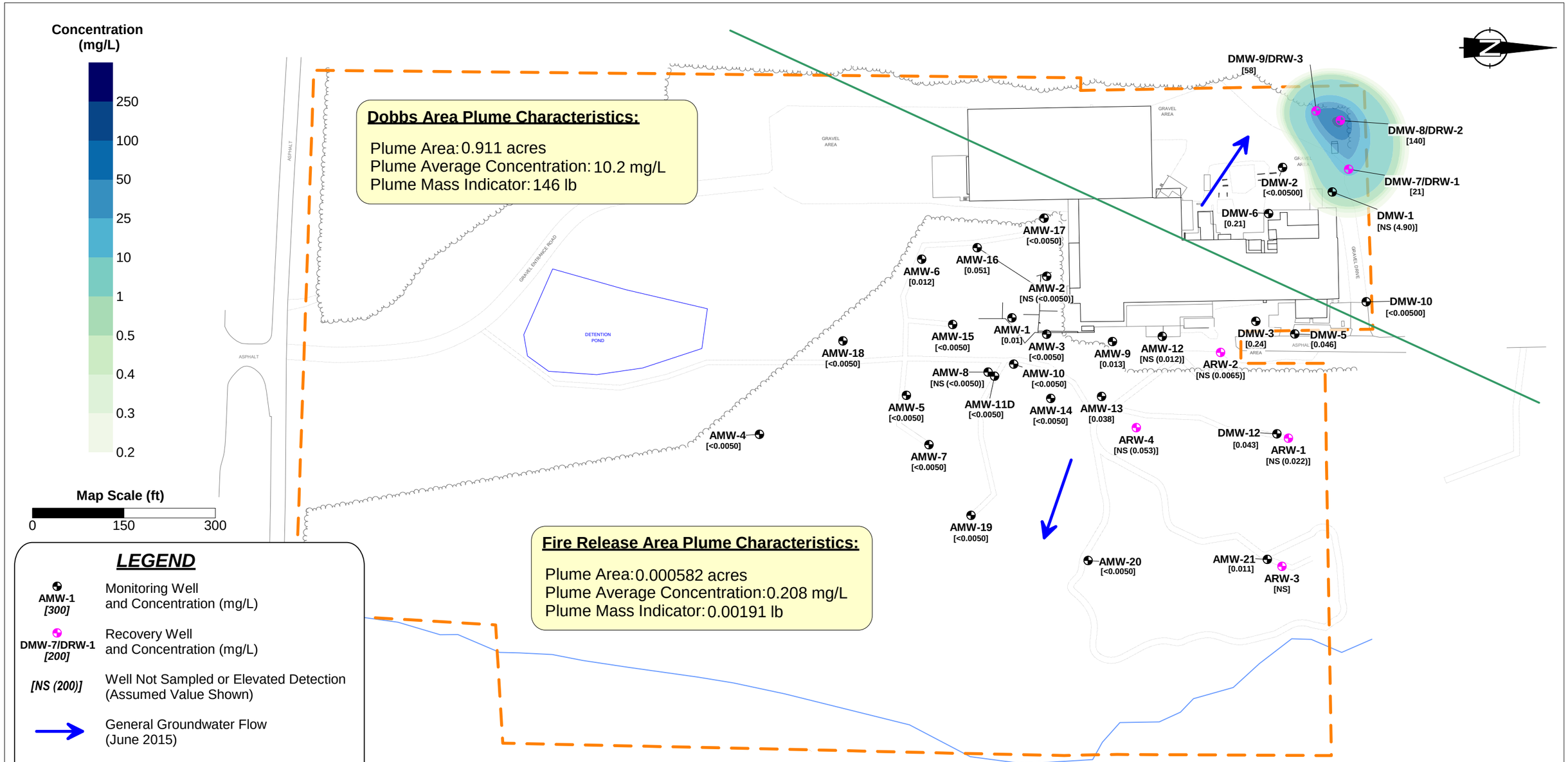

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Plume Map
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2006

Prepared by: SNW Checked by: TOG Figure:

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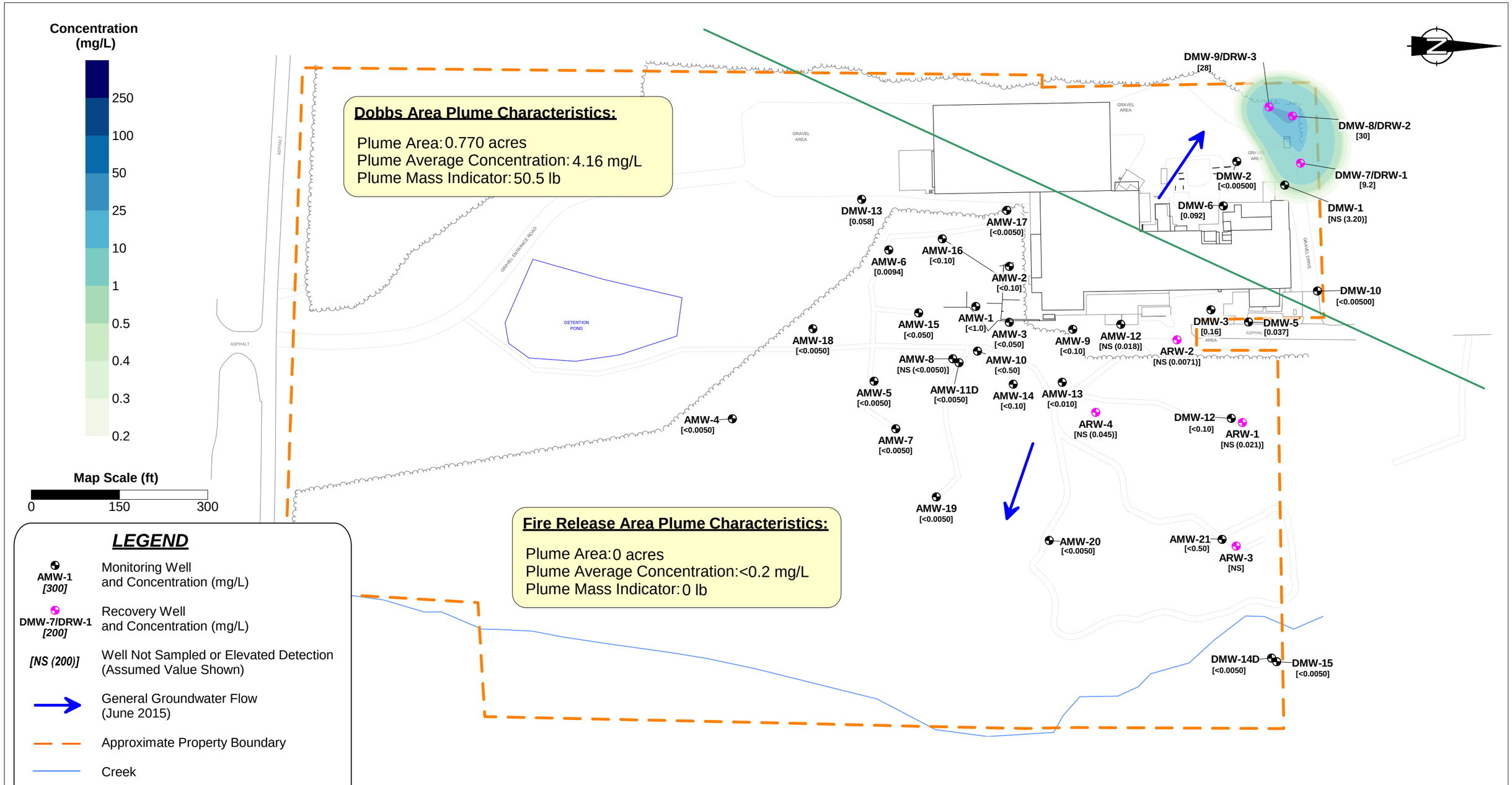

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
2007

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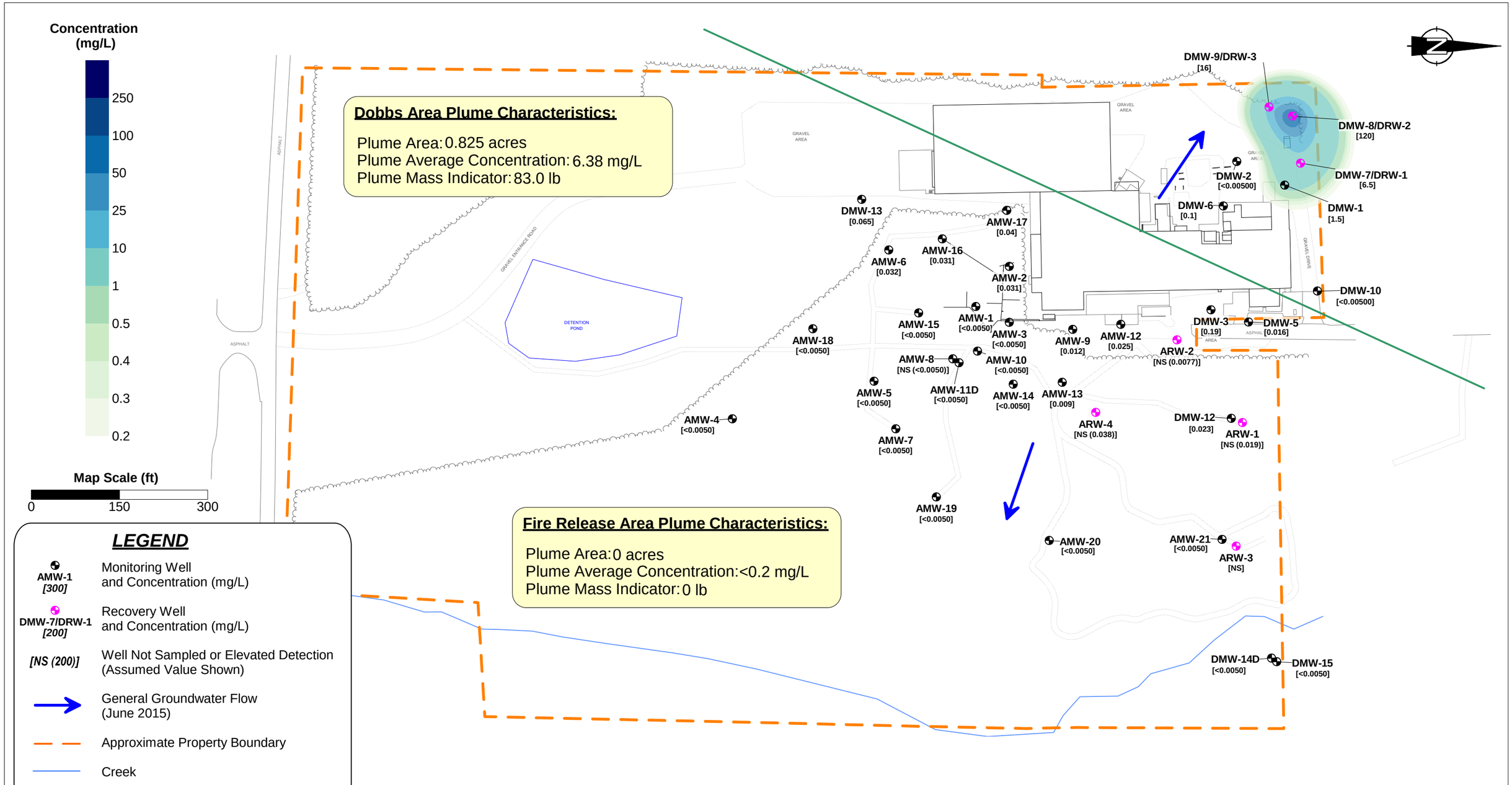

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
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2008

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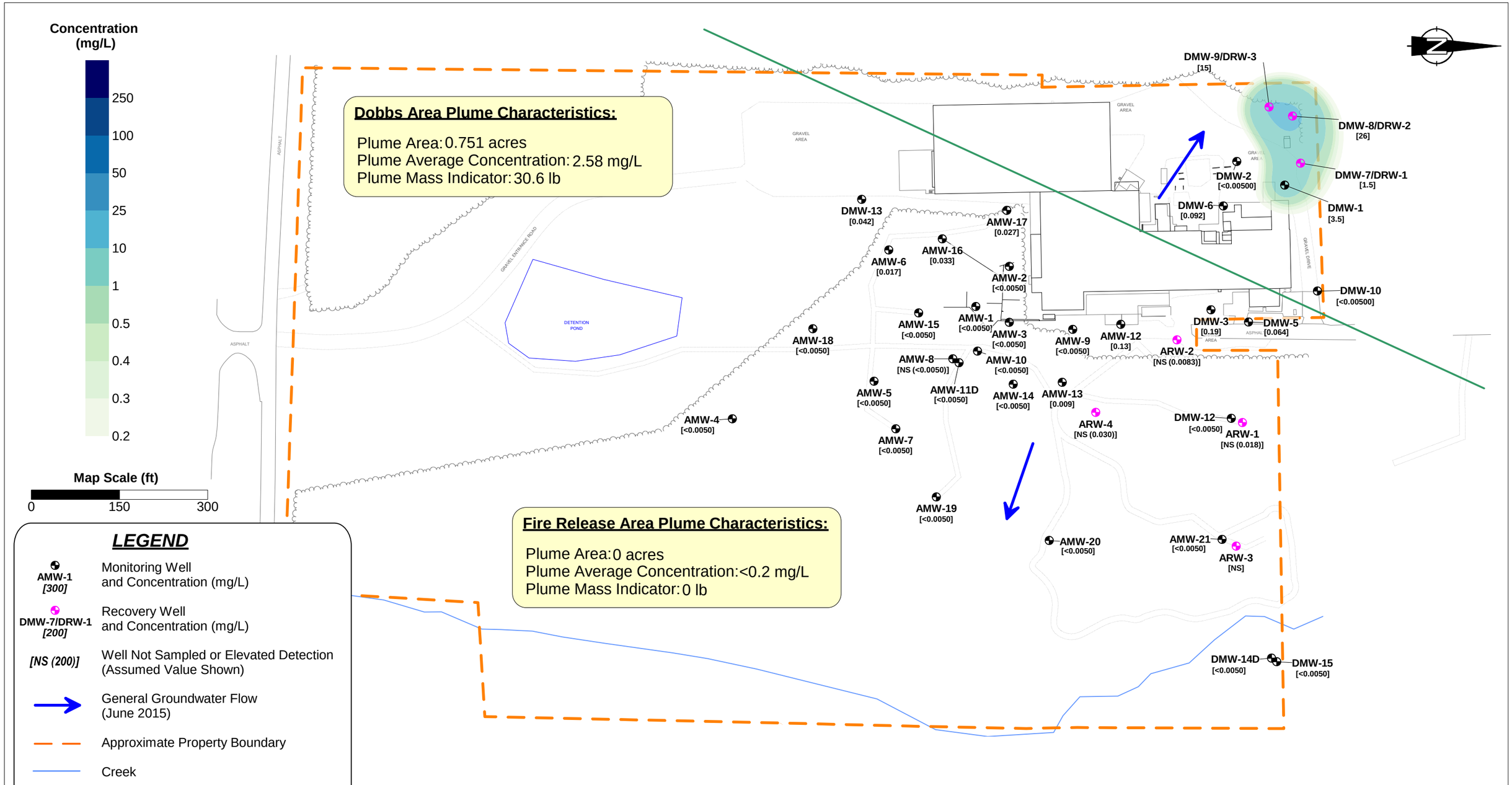

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
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2009

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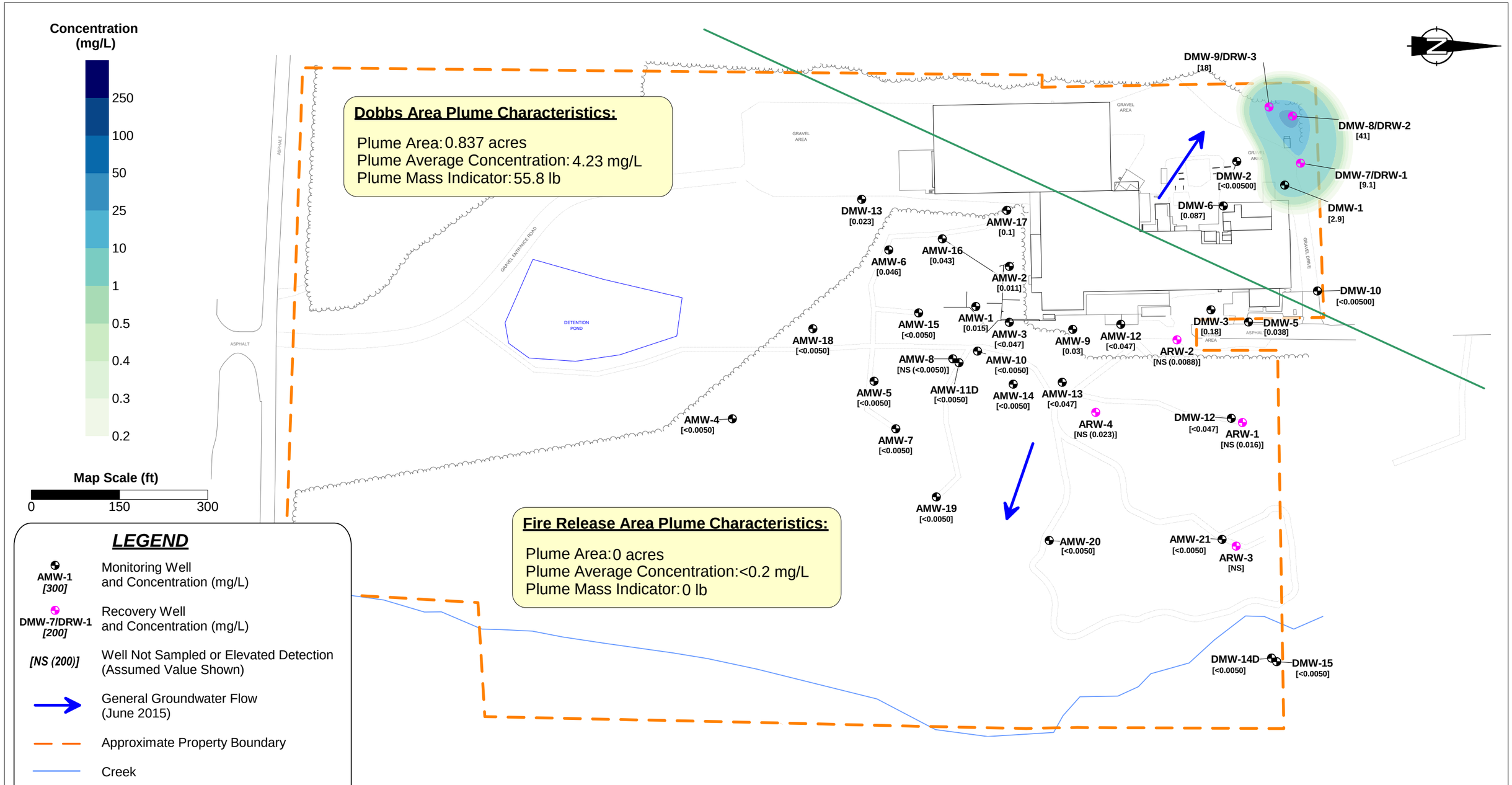

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
2010

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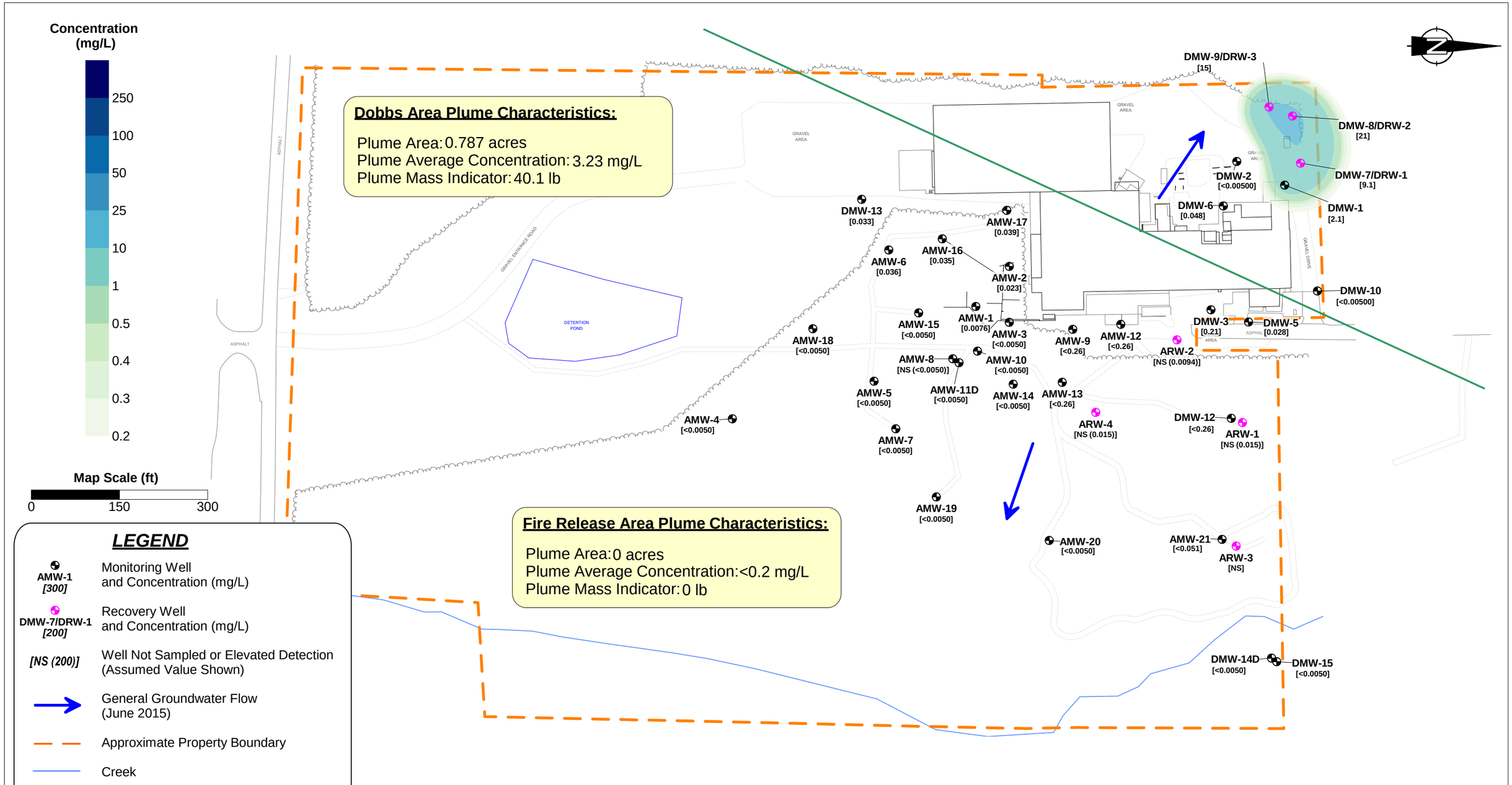

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
2011

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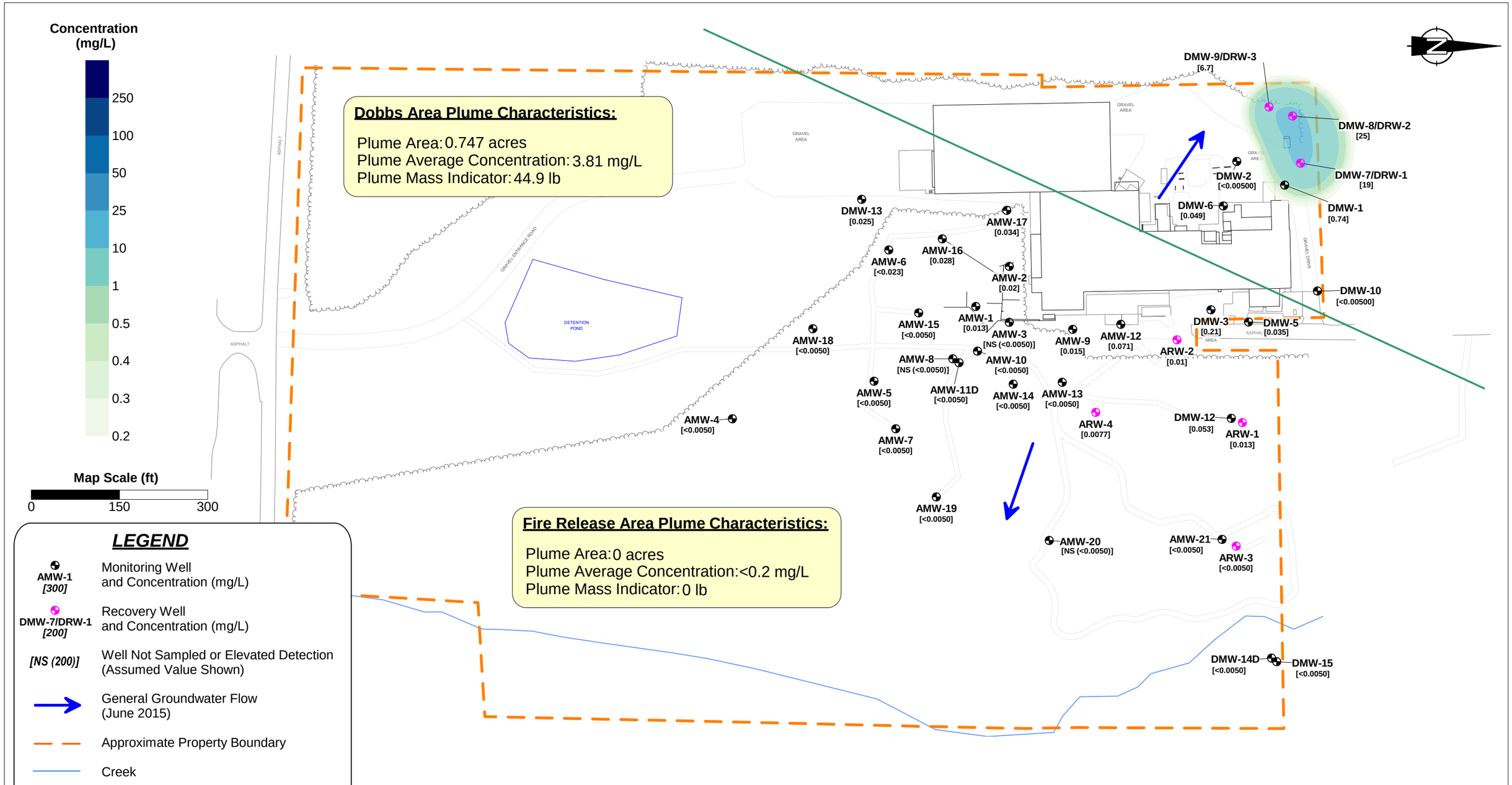

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Plume Map
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2012

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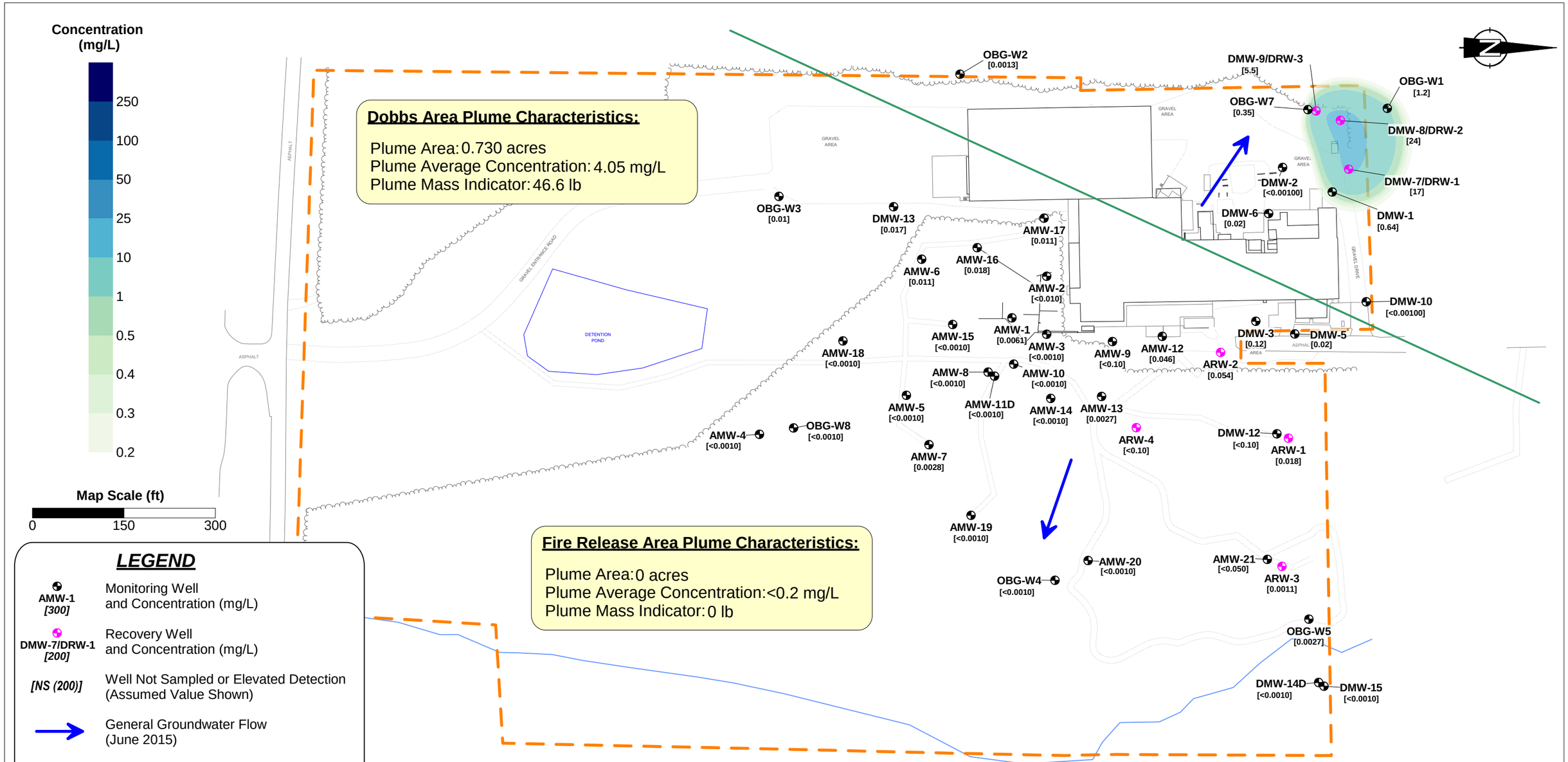

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
2013

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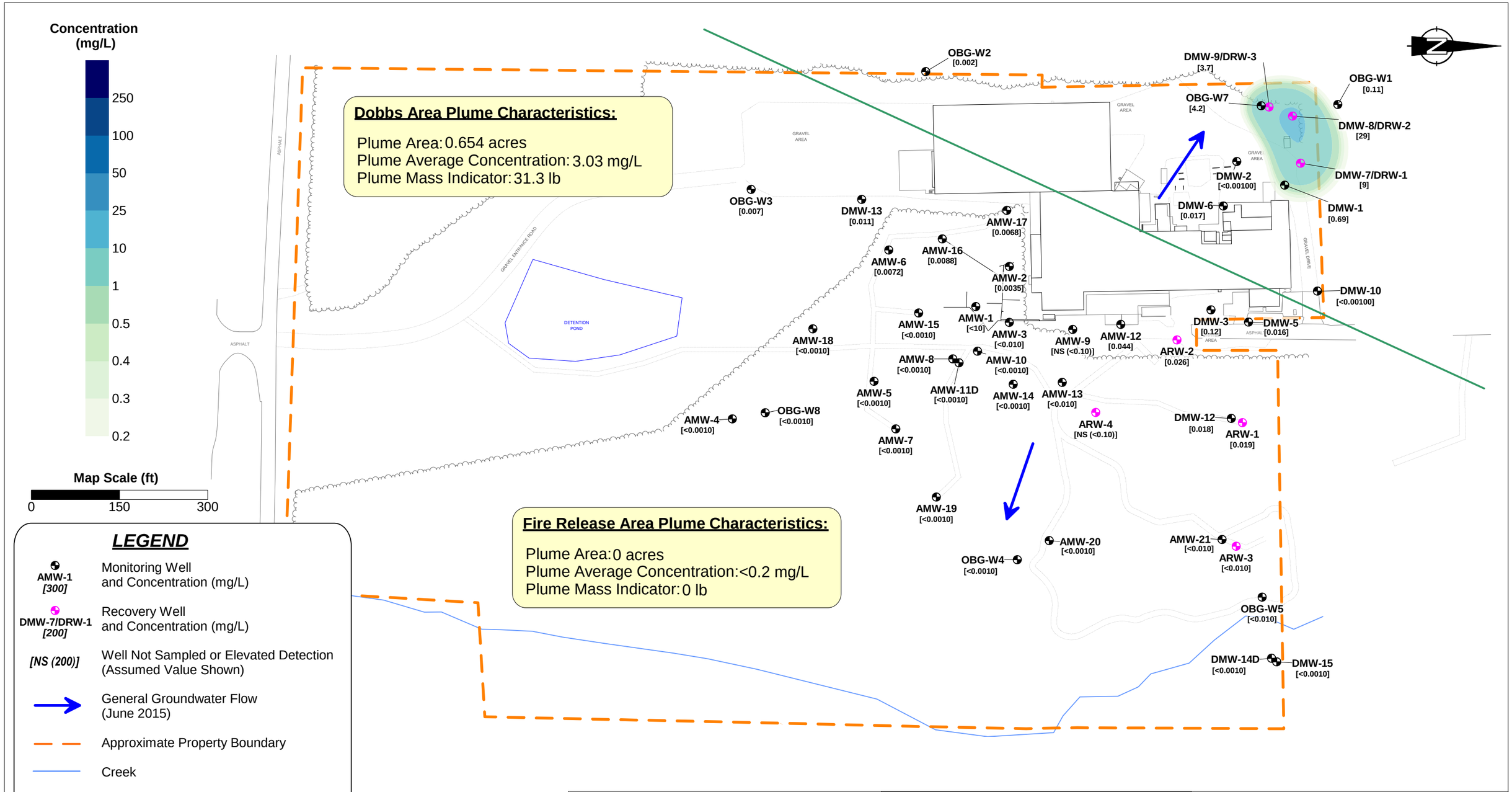

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Plume Map
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Jun-2014

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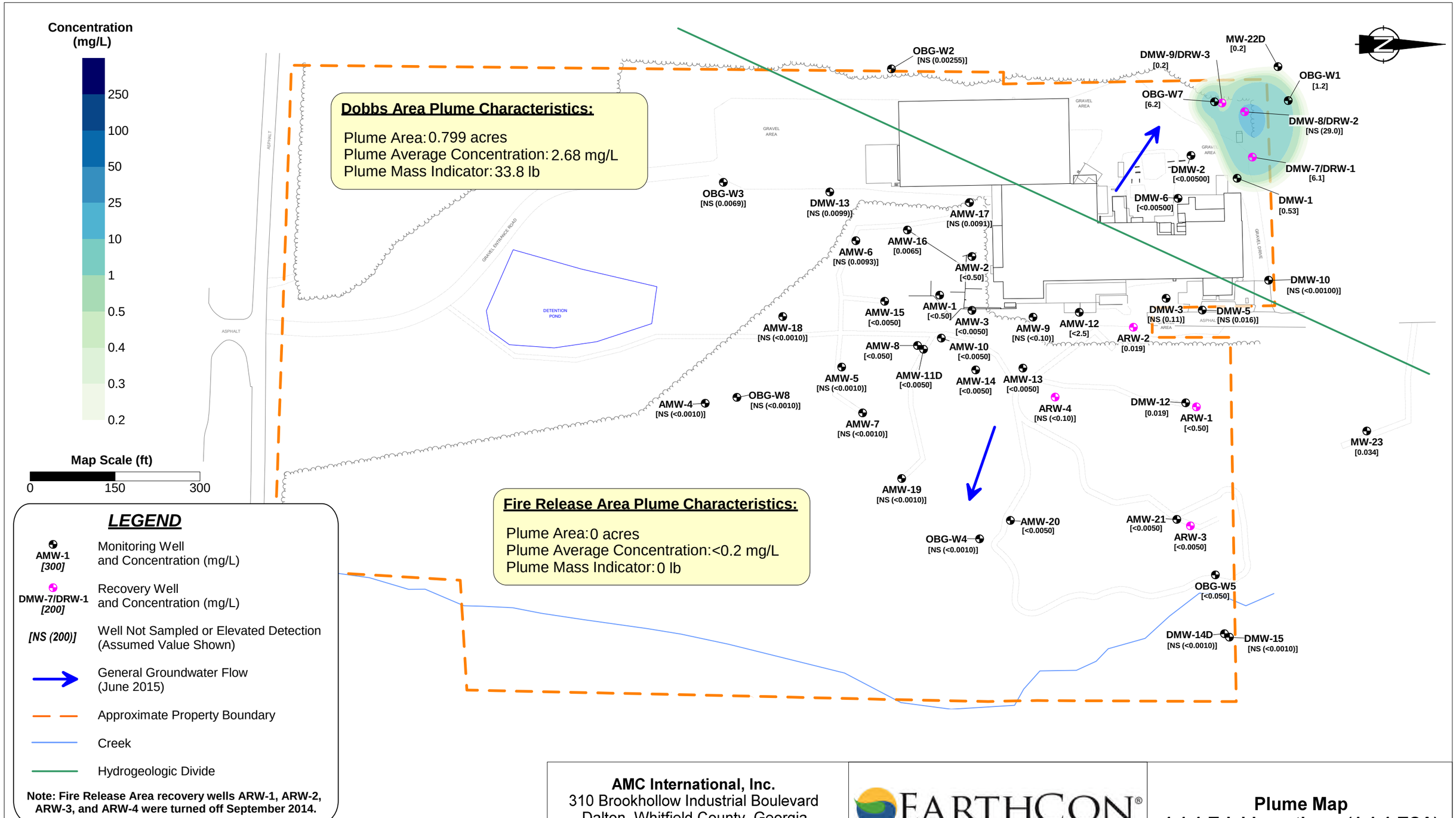

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Plume Map
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Dec-2014

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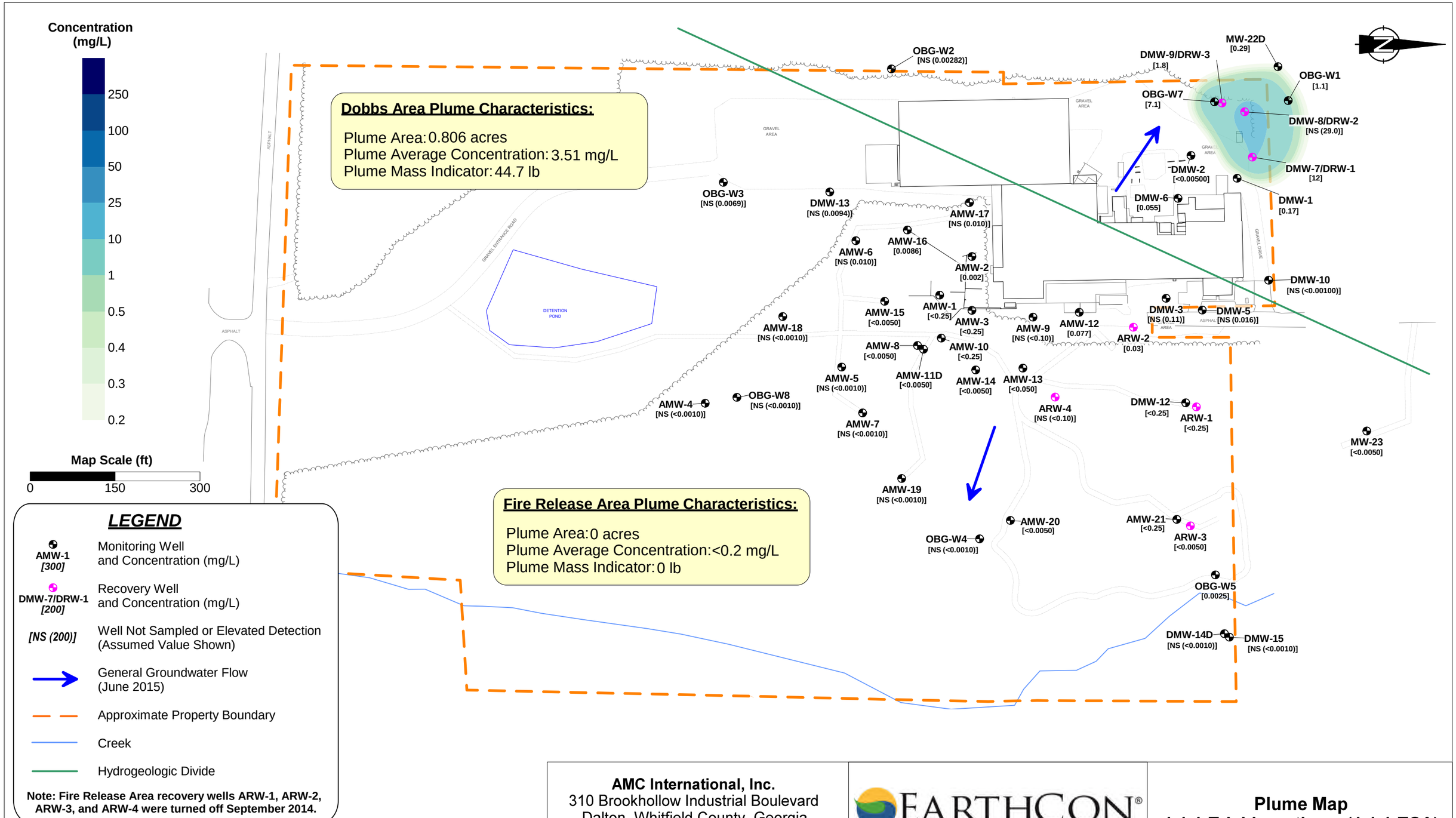

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
Mar-2015

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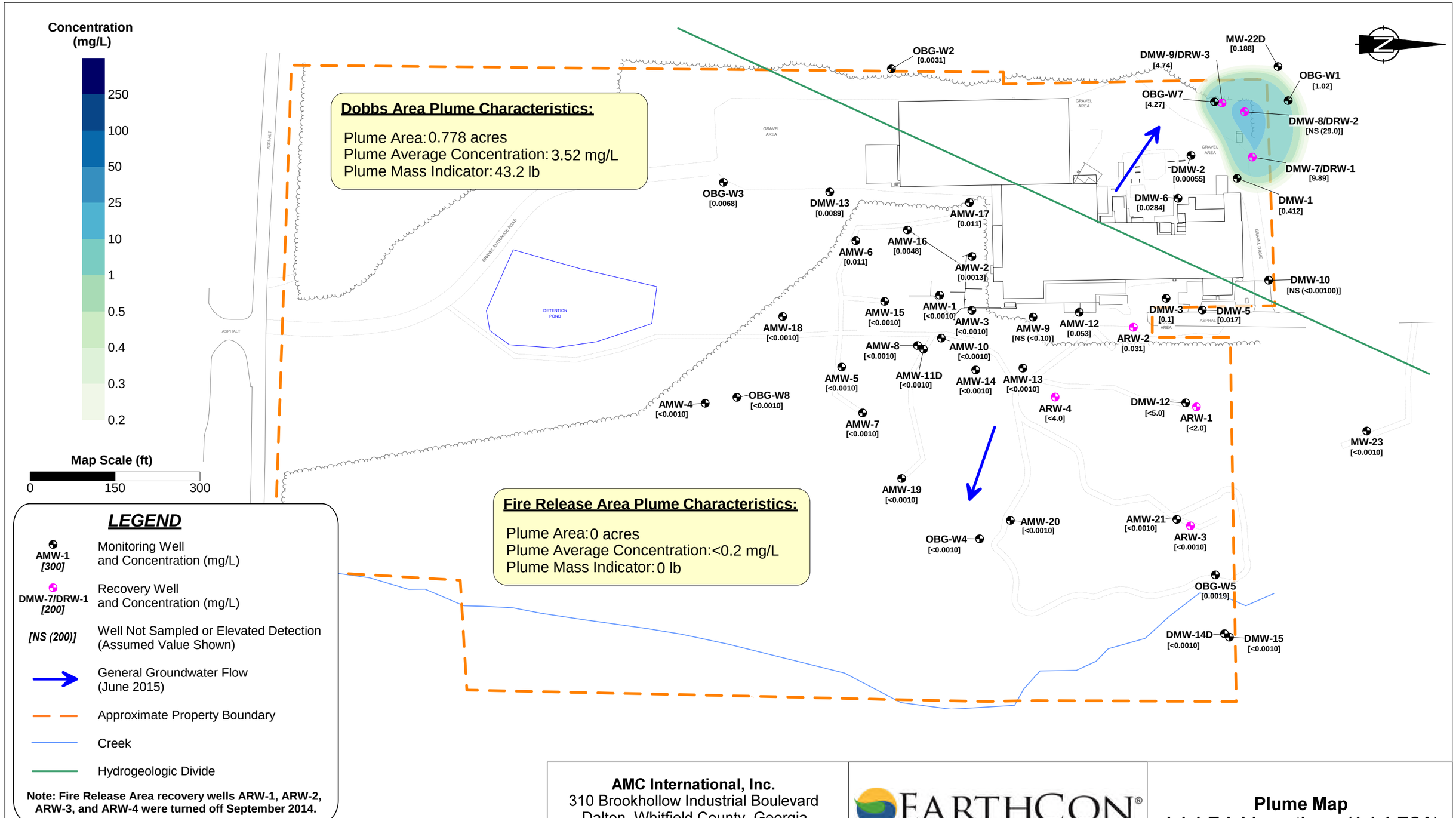

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Plume Map
1,1,1-Trichloroethane (1,1,1-TCA)
Jun-2015

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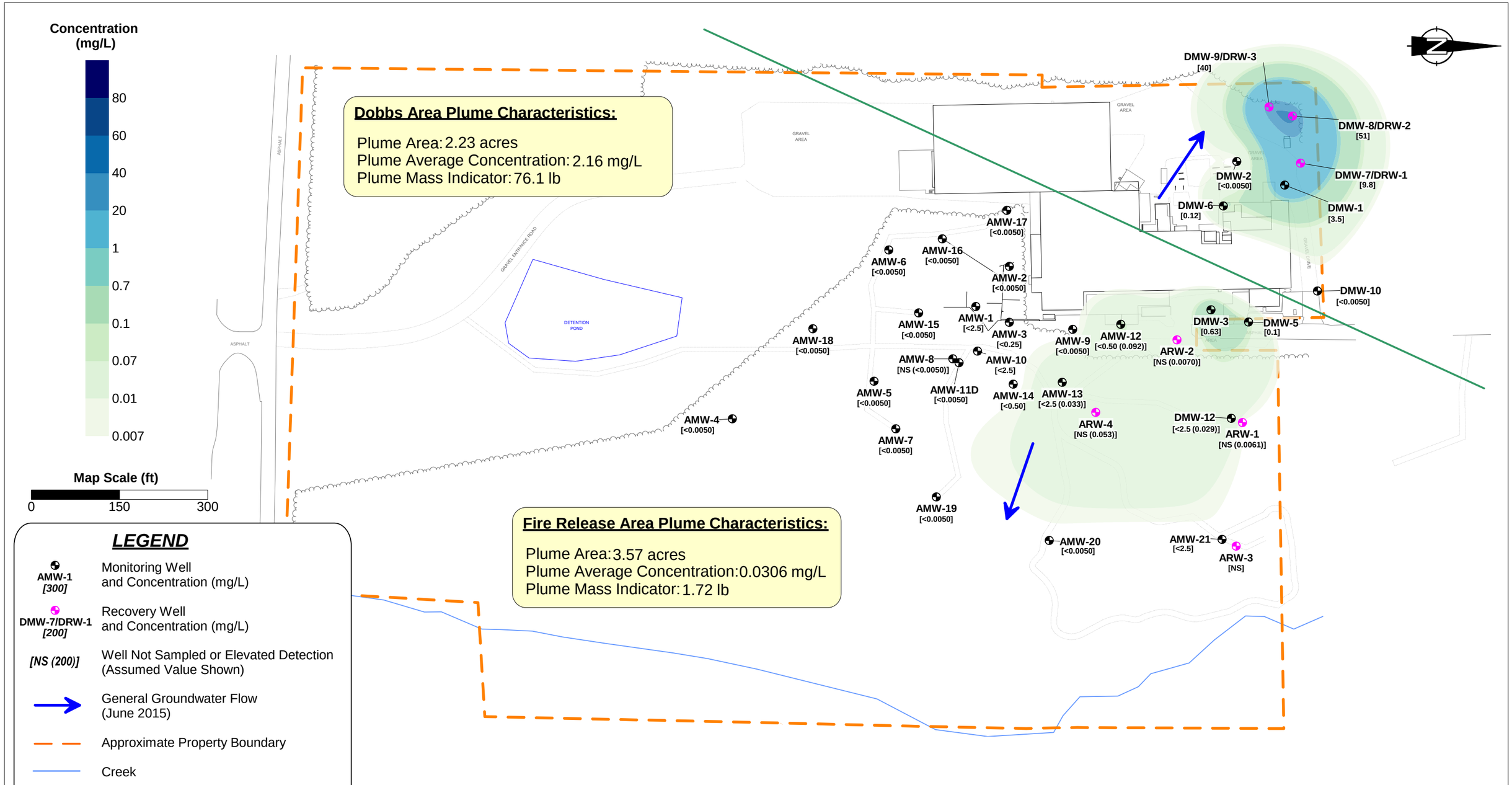
Appendix F
Plume Series Isopleth Maps
1,1-Dichloroethene (1,1-DCE)



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Plume Map
1,1-Dichloroethene (1,1-DCE)
2005

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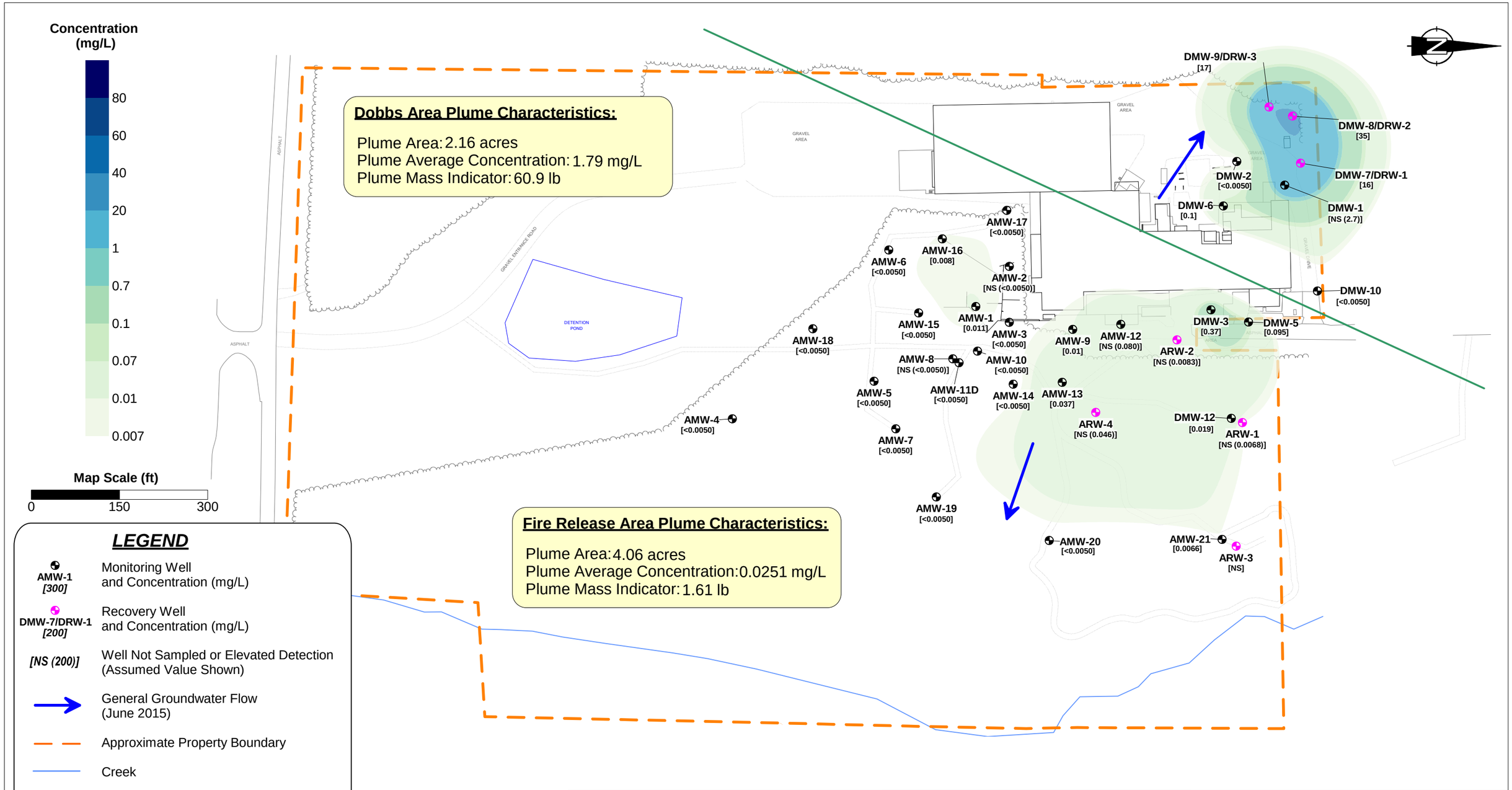

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2006

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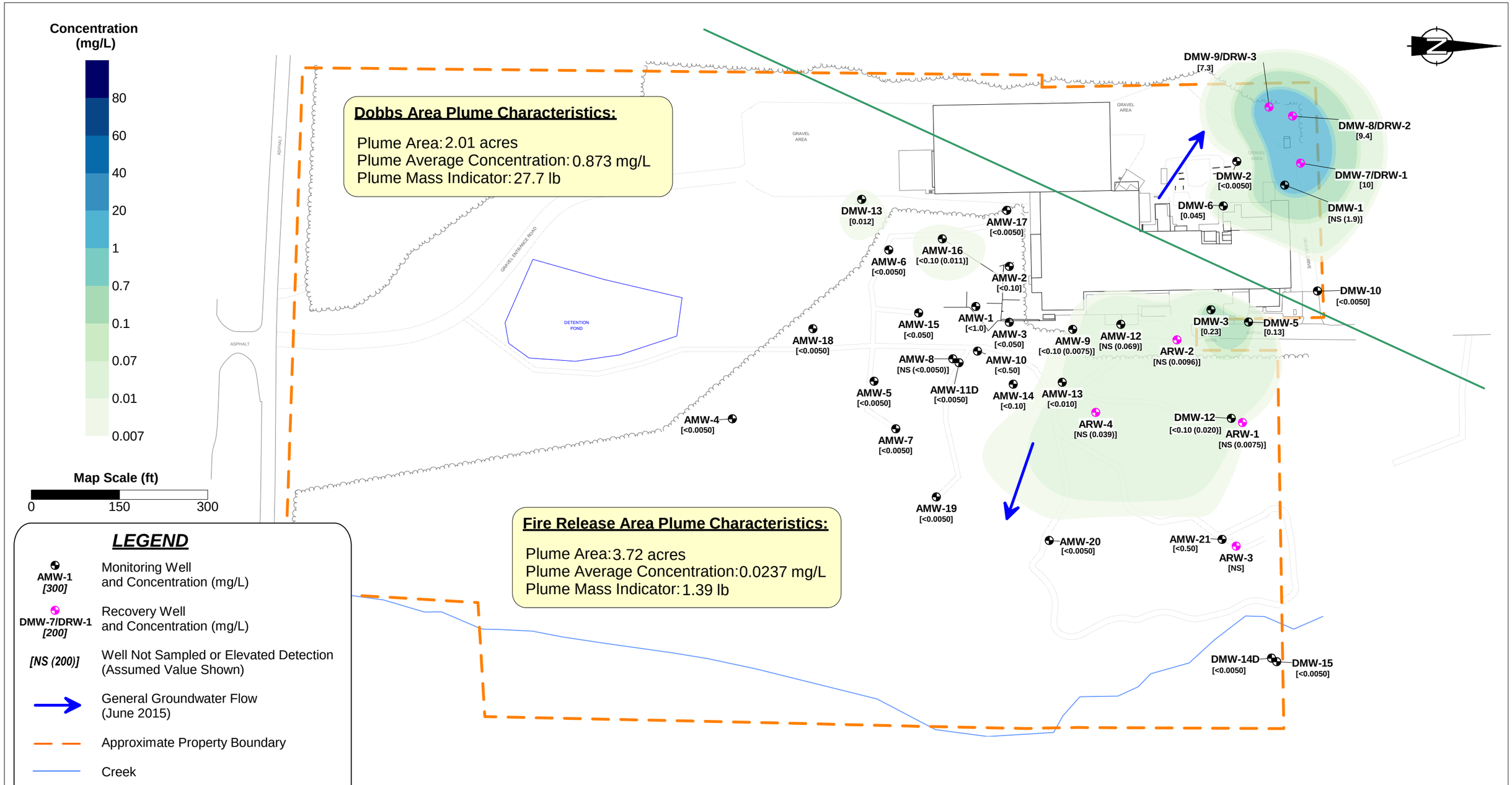

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2007

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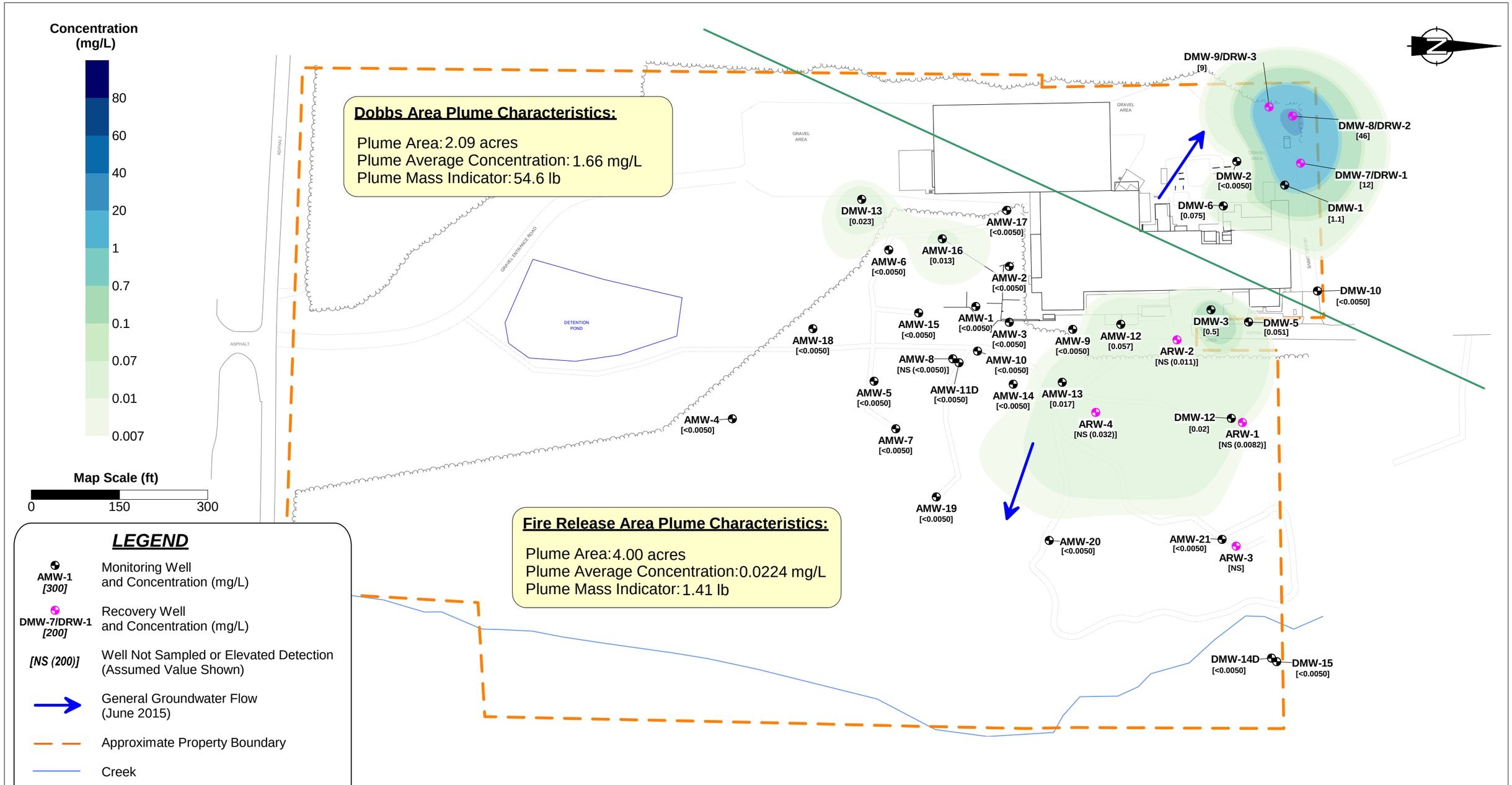

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2008

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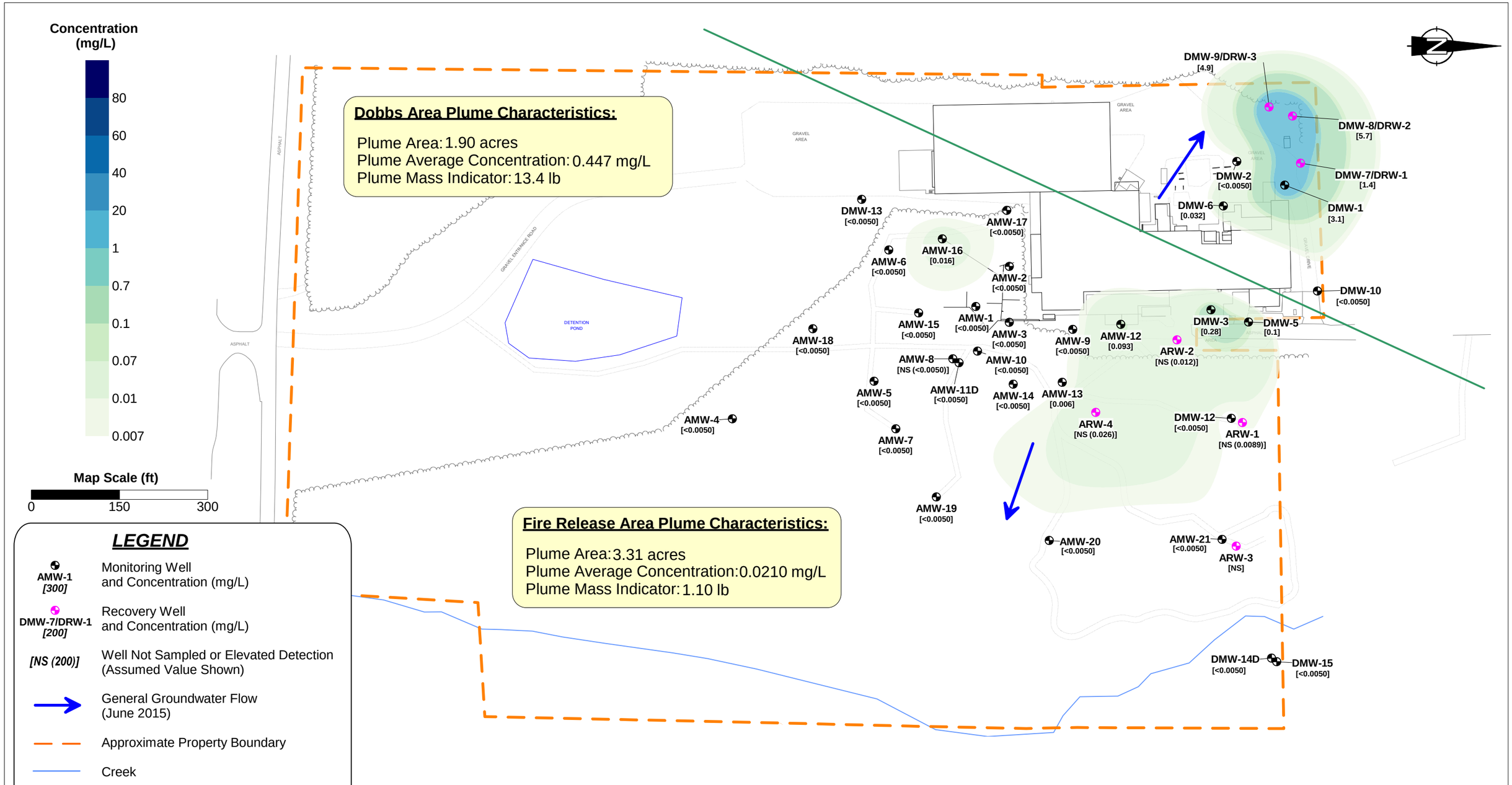

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2009

Prepared by: SNW Checked by: TOG Figure:

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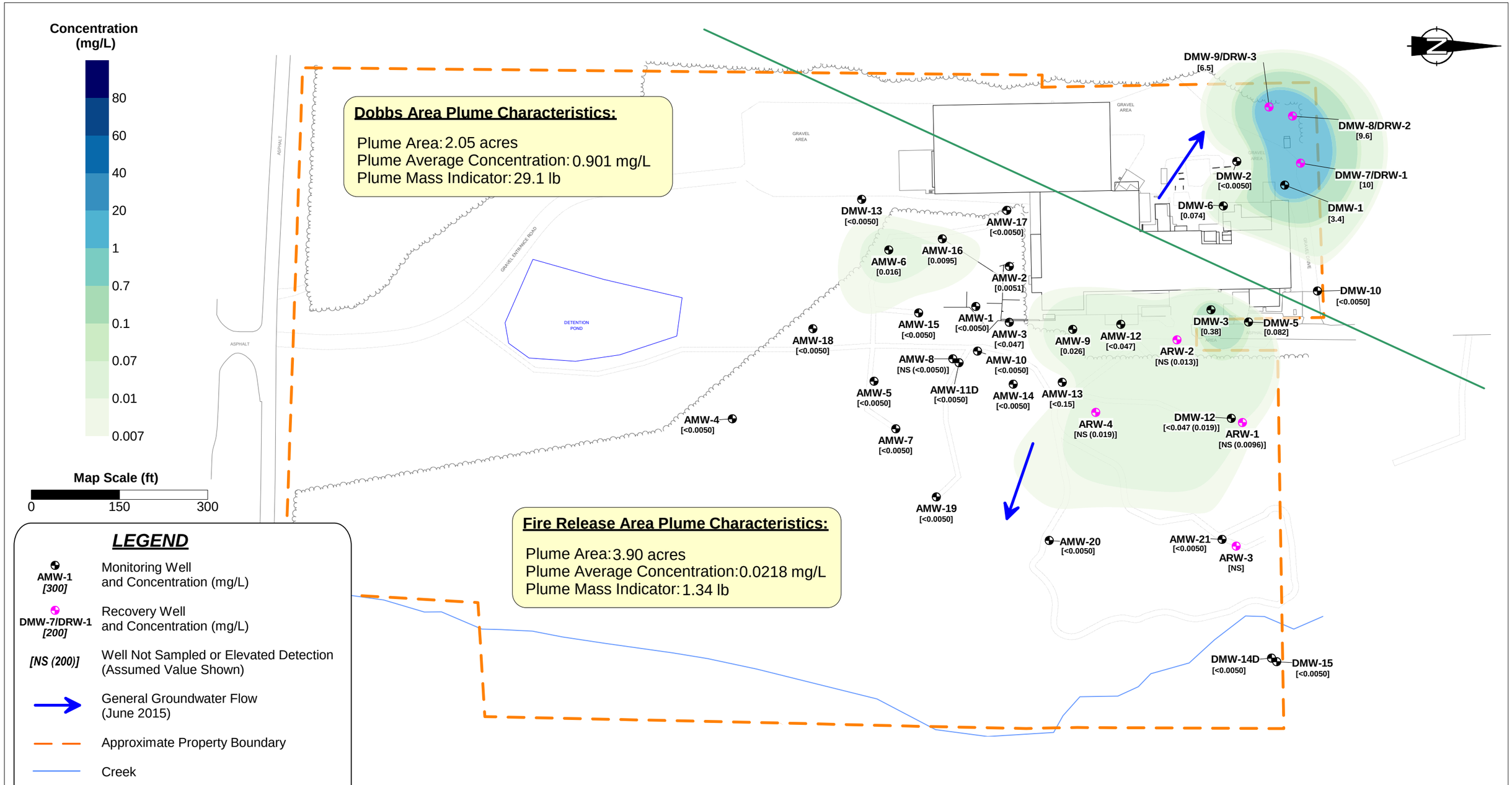

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2010

Prepared by: SNW Checked by: TOG Figure:

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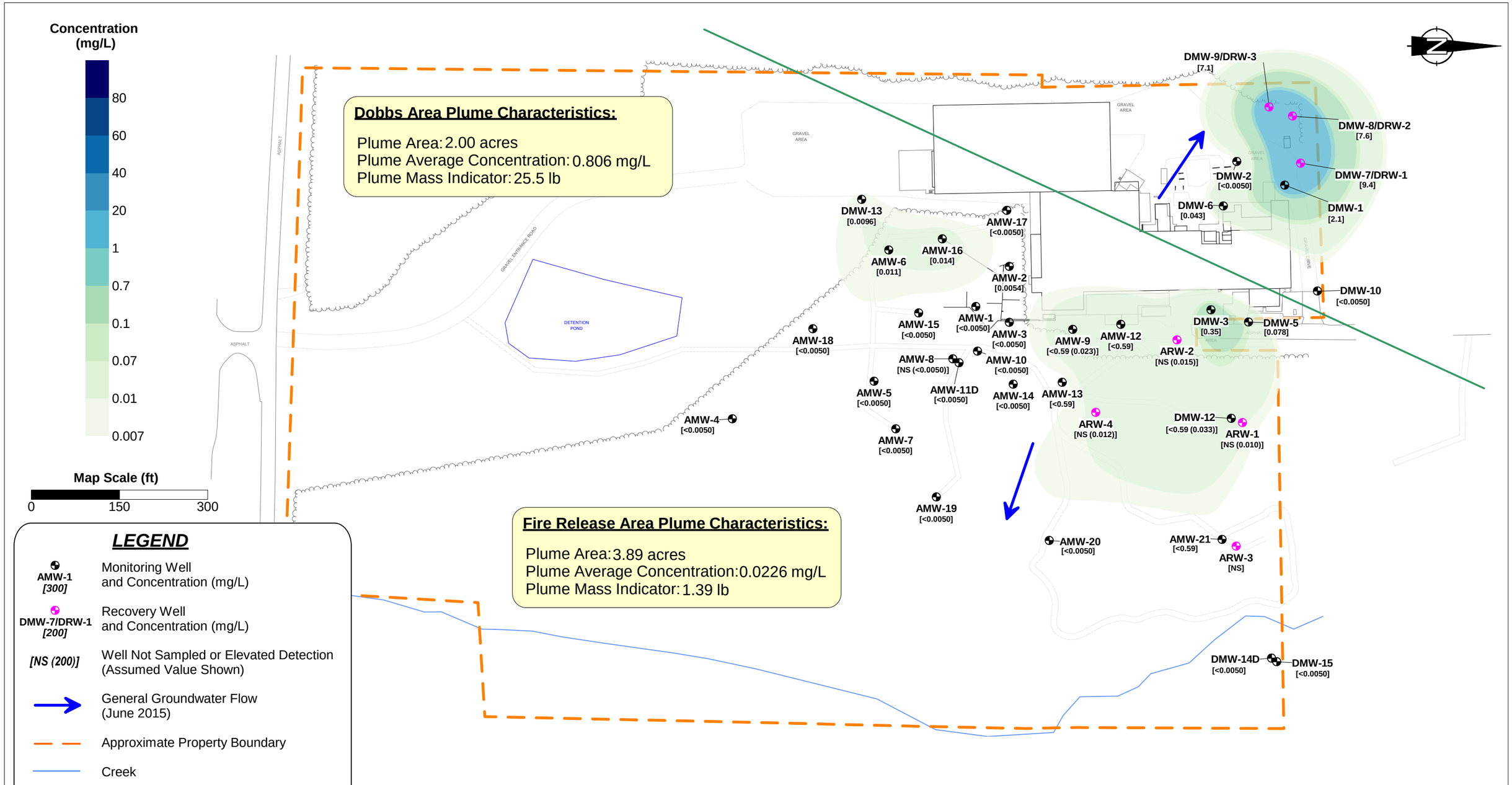

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2011

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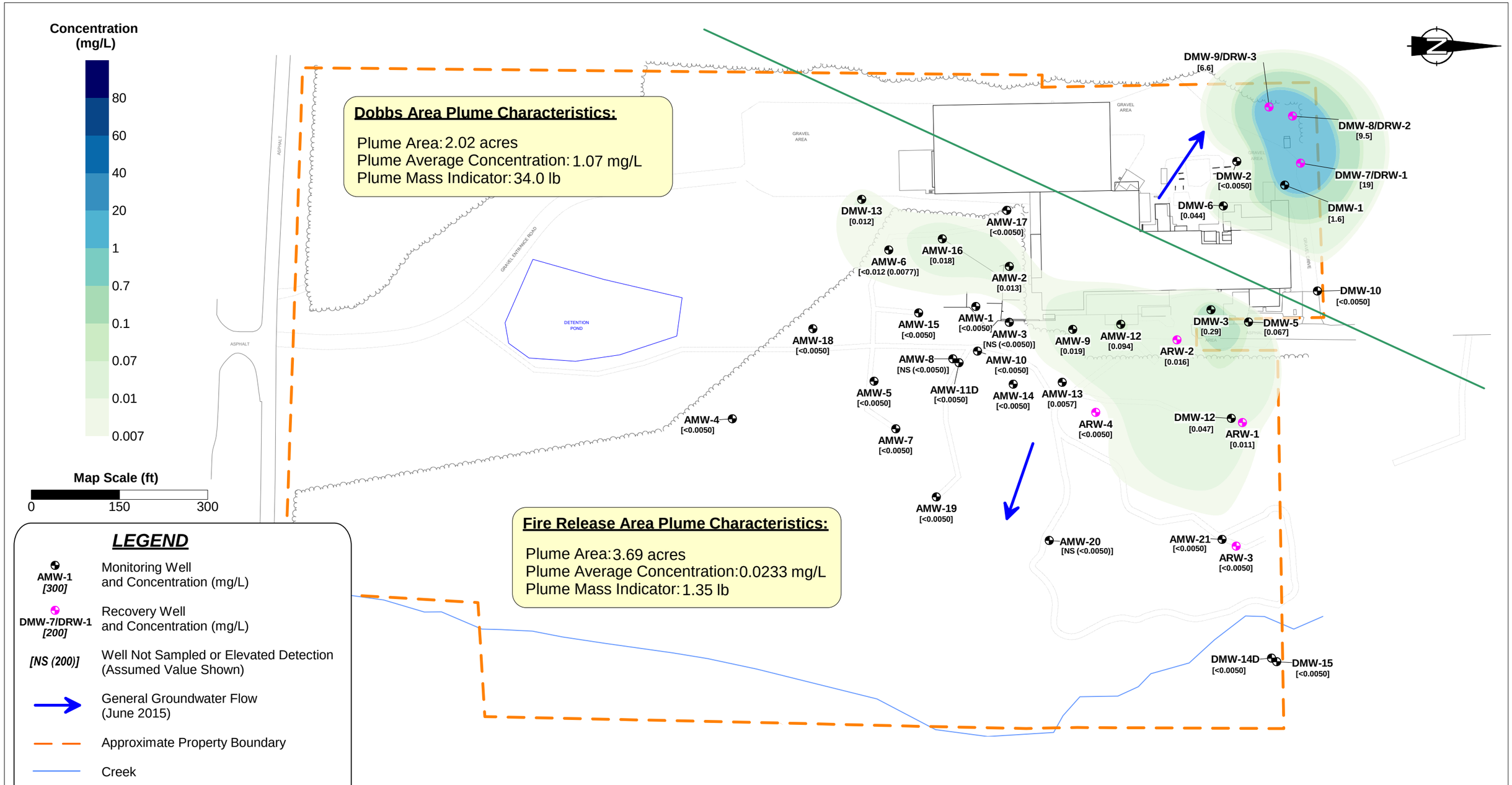

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Project Number: 02.20140392.00

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Plume Map
1,1-Dichloroethene (1,1-DCE)
2012

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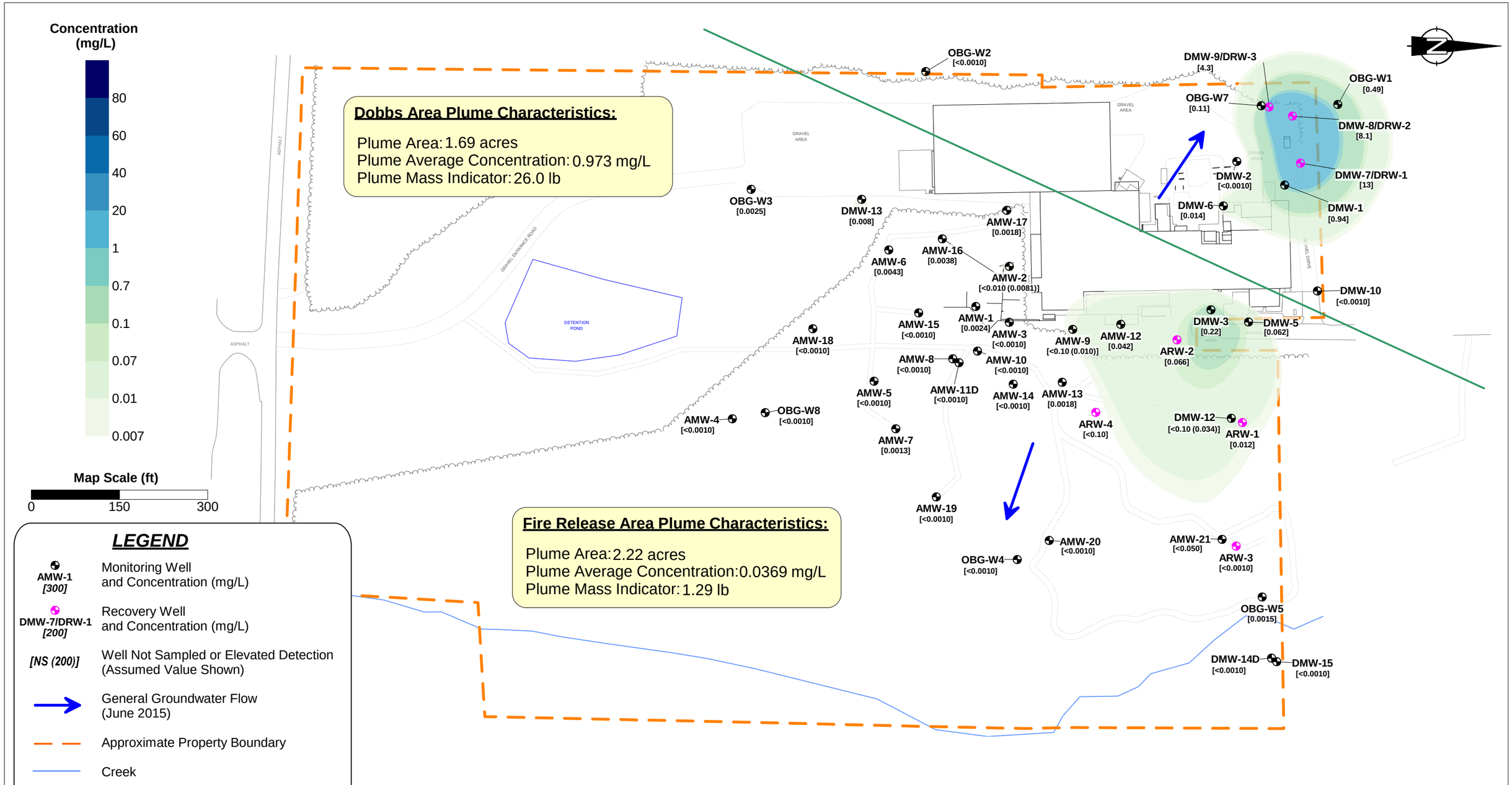

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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2013

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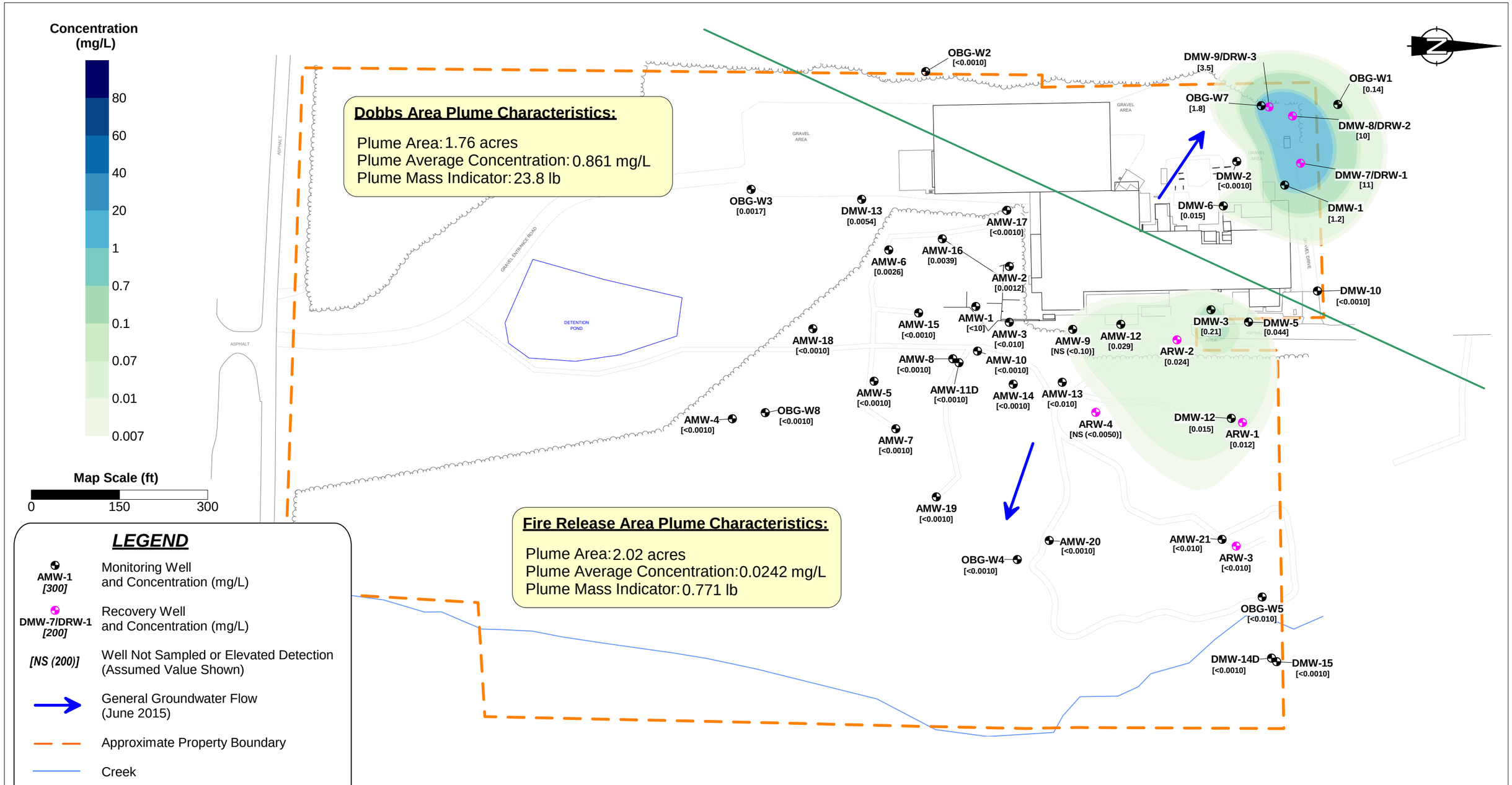

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Plume Map
1,1-Dichloroethene (1,1-DCE)
Jun-2014

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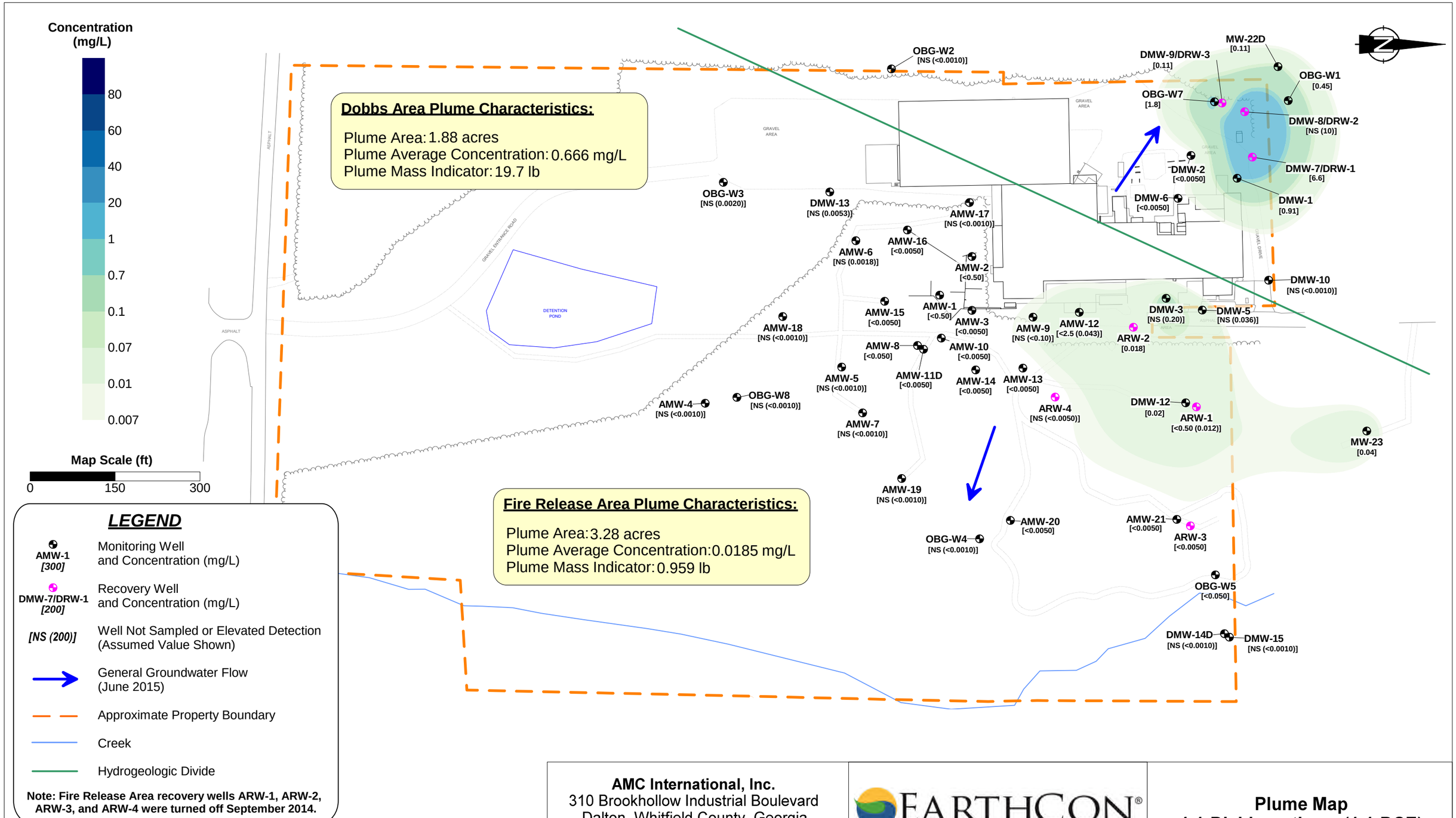

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Plume Map
1,1-Dichloroethene (1,1-DCE)
Dec-2014

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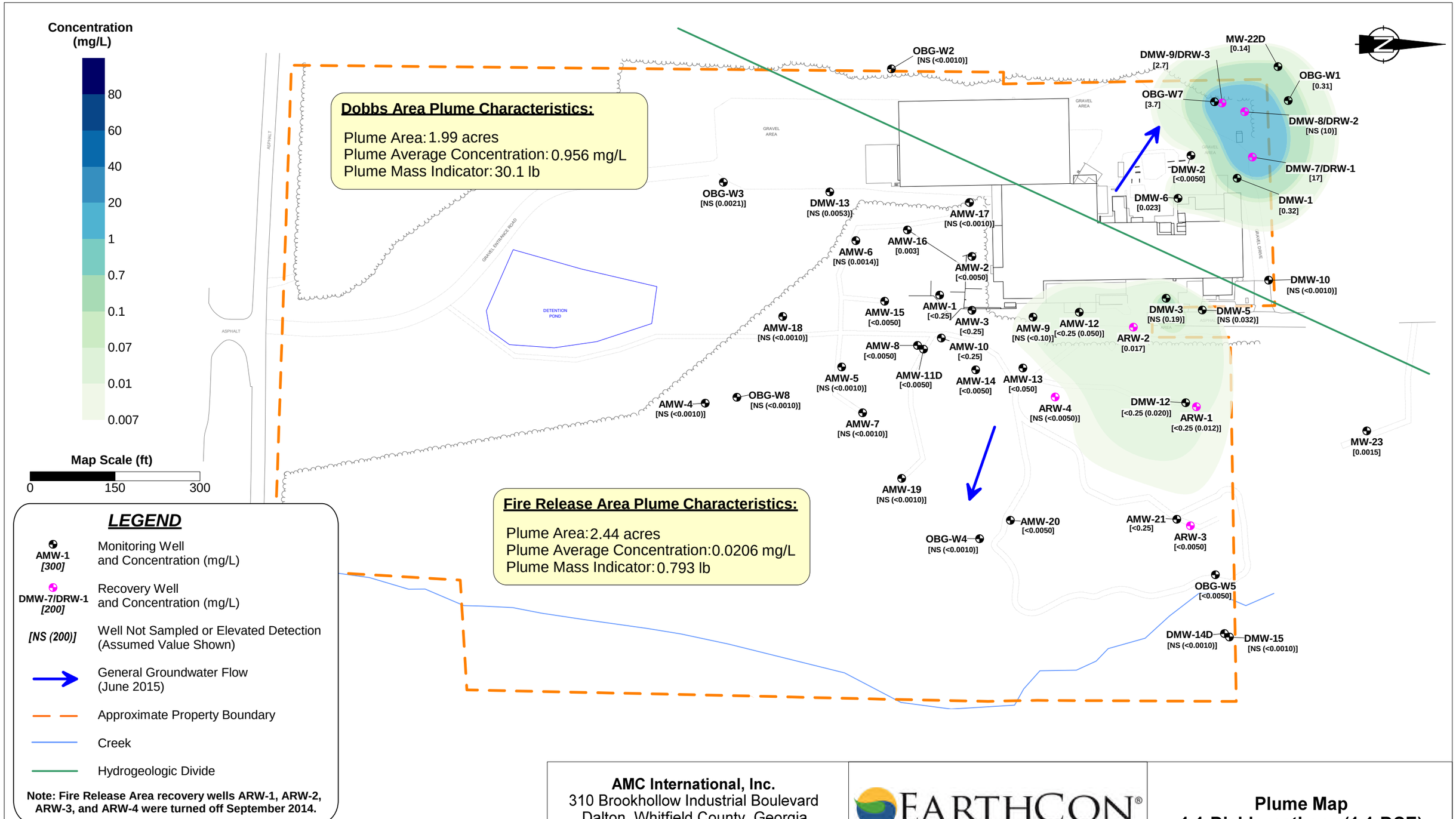

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Plume Map
1,1-Dichloroethene (1,1-DCE)
Mar-2015

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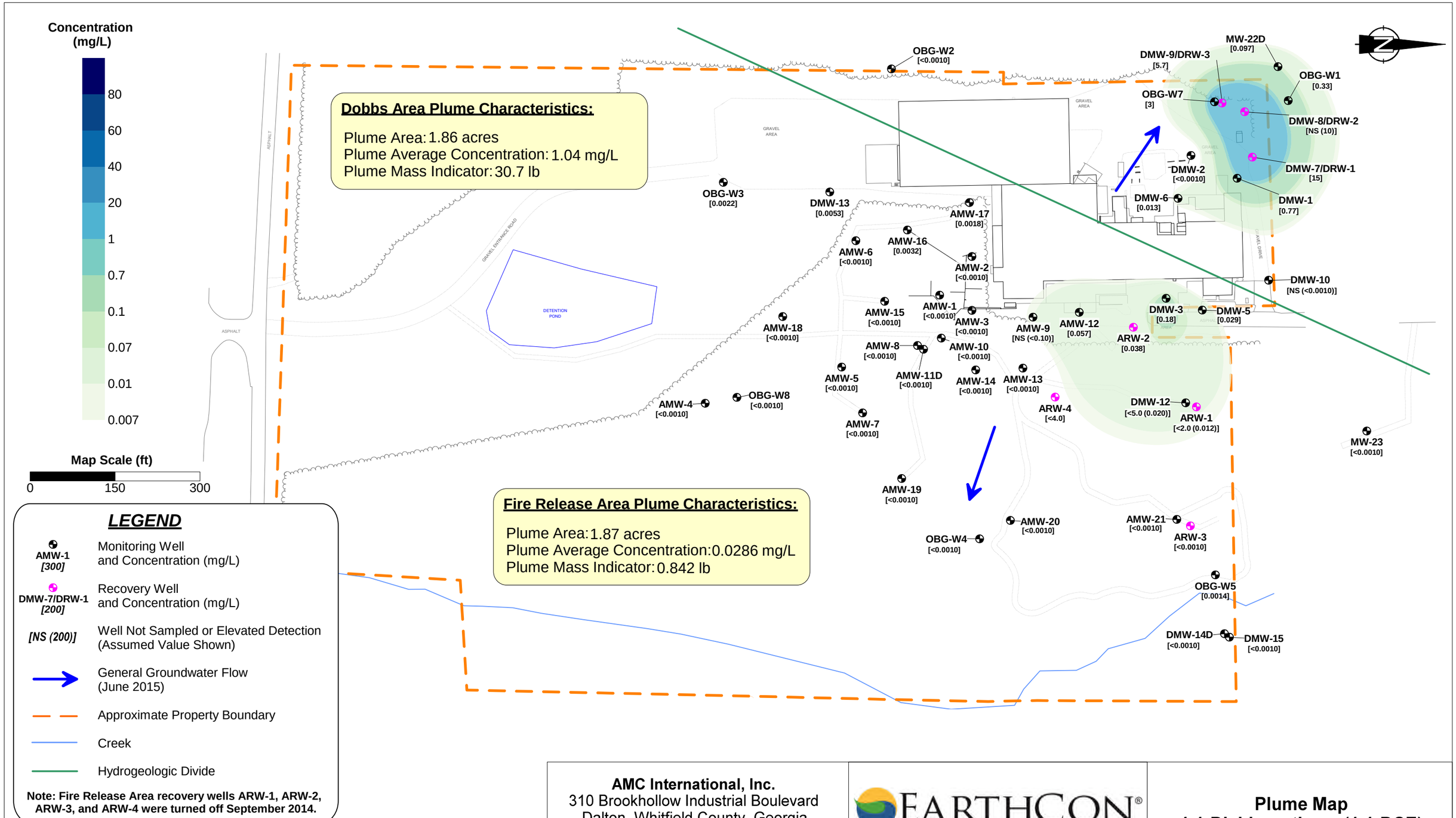

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Plume Map
1,1-Dichloroethene (1,1-DCE)
Jun-2015

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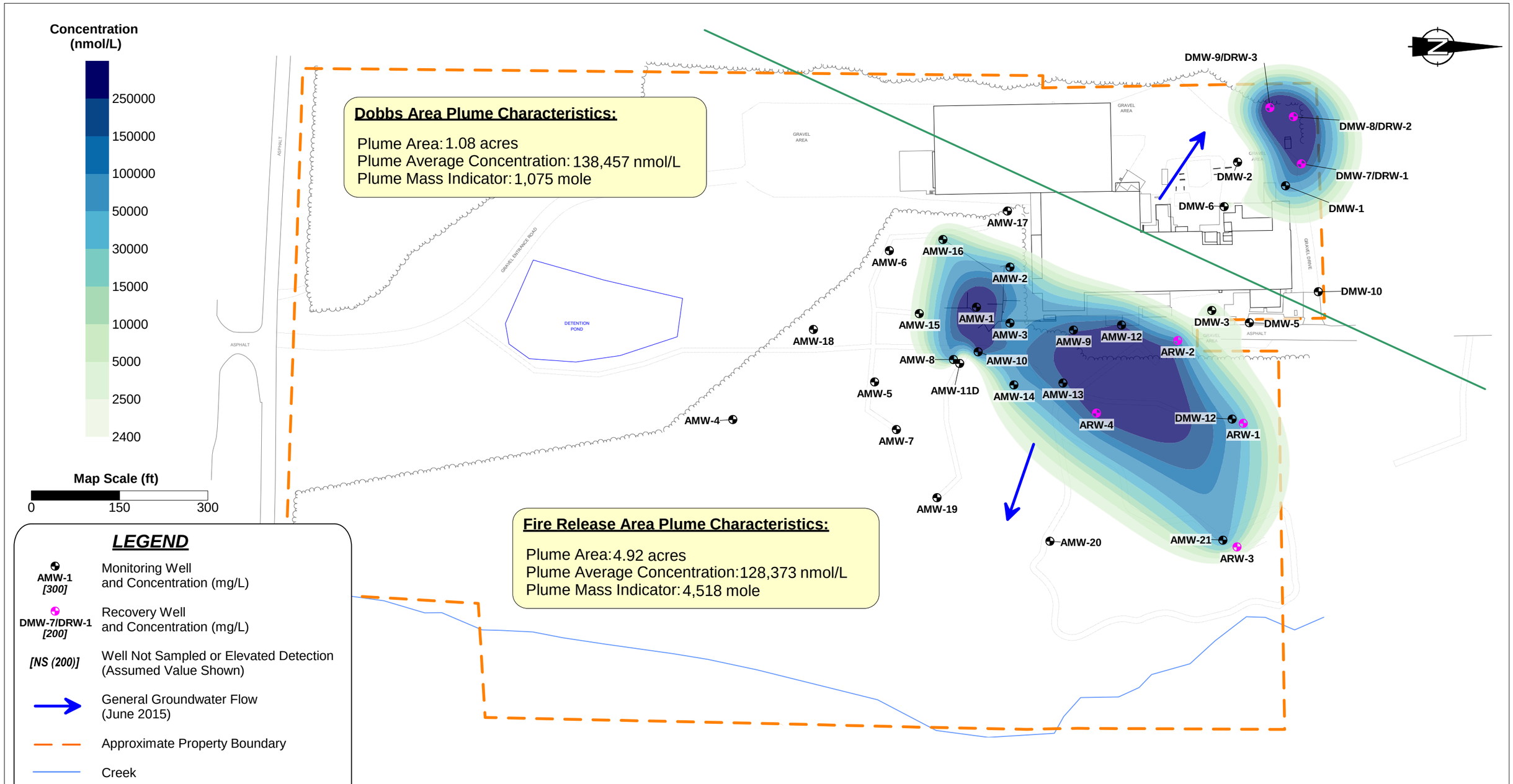
Appendix G
Plume Series Isopleth Maps
Total CVOCs



LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Plume Map
Total CVOCs
2005

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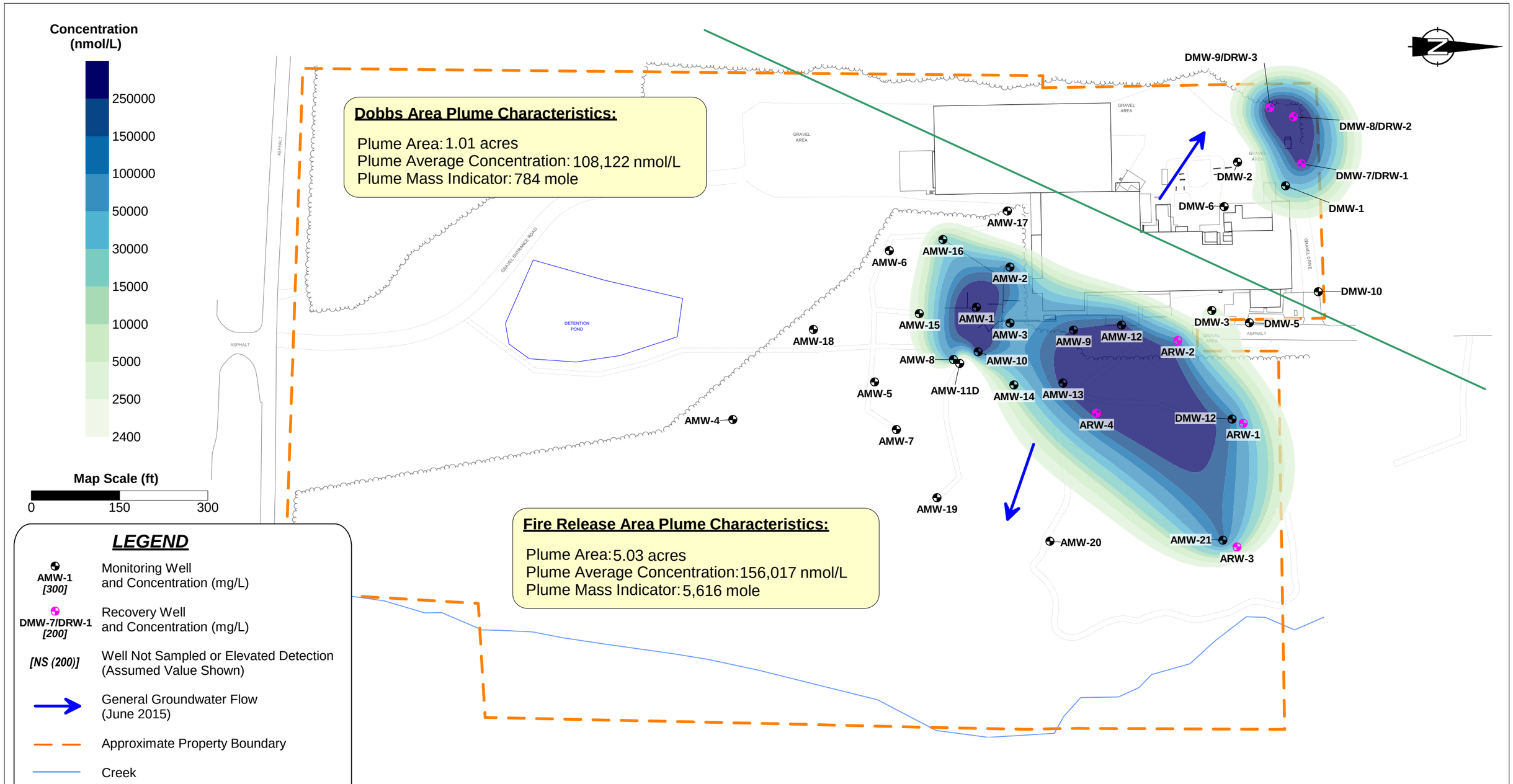

LEGEND

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Plume Map
Total CVOCs
2006

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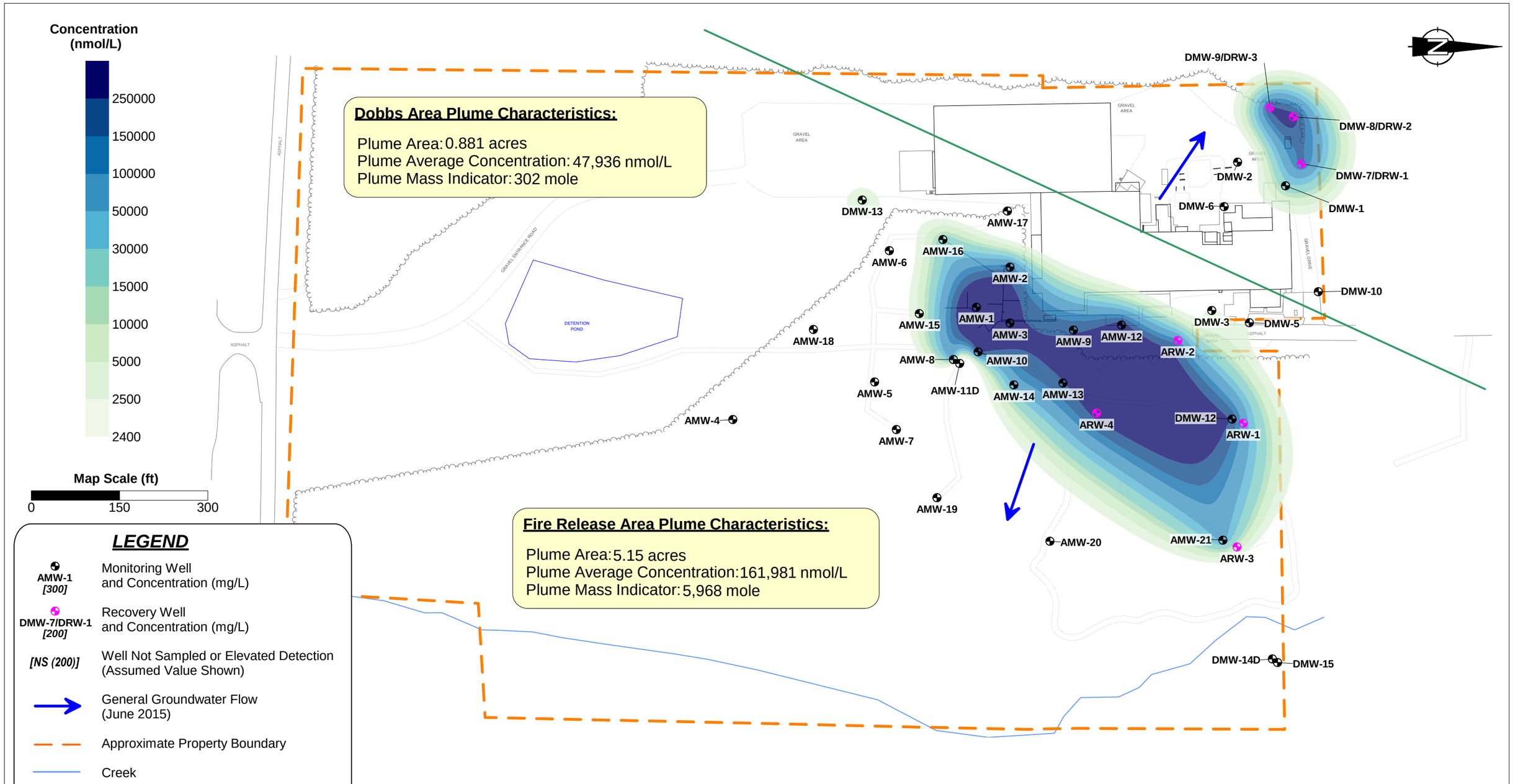

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Plume Map
Total CVOCs
2007

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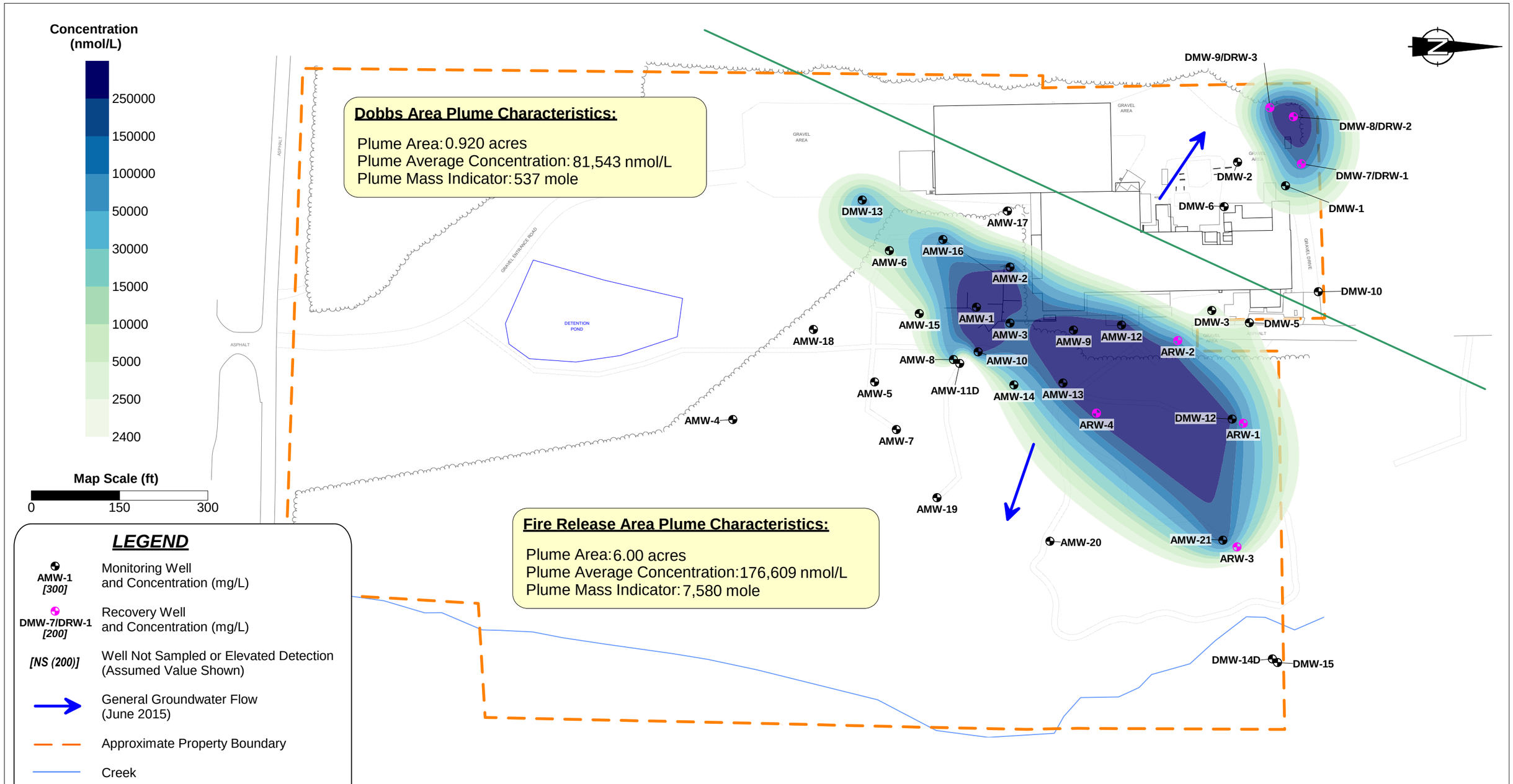

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Plume Map
Total CVOCs
2008

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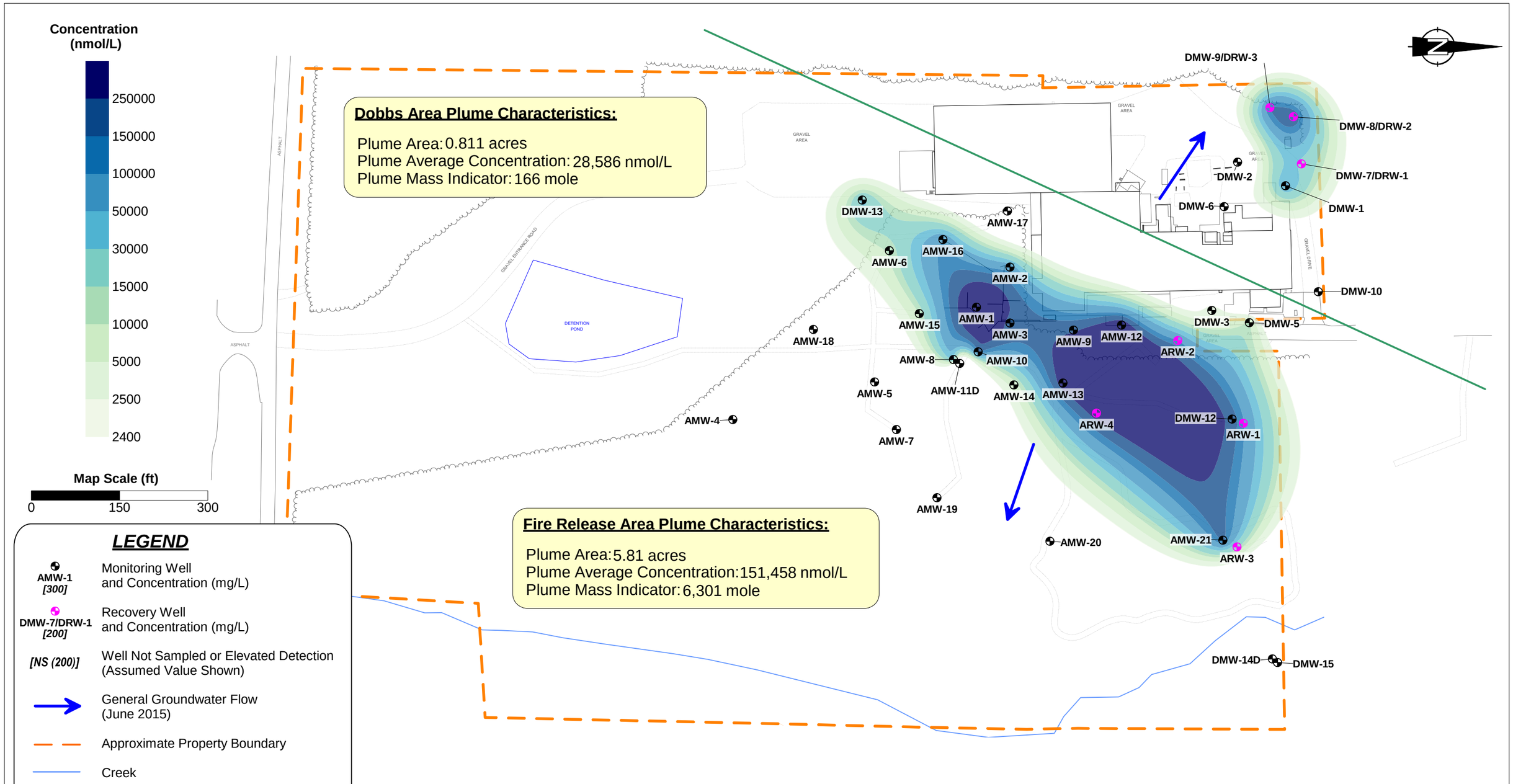

LEGEND

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Plume Map
Total CVOCs
2009

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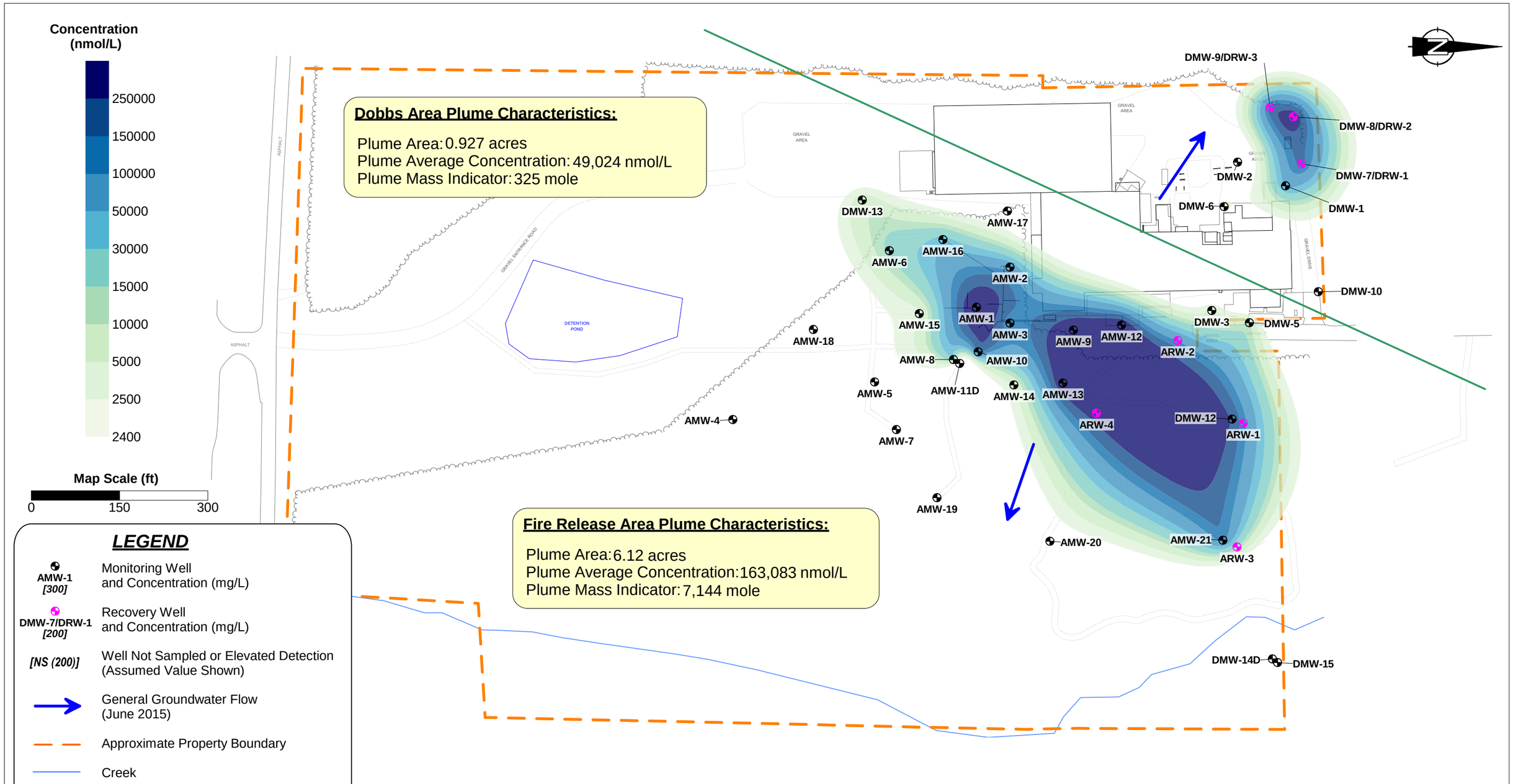

LEGEND

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Plume Map
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2010

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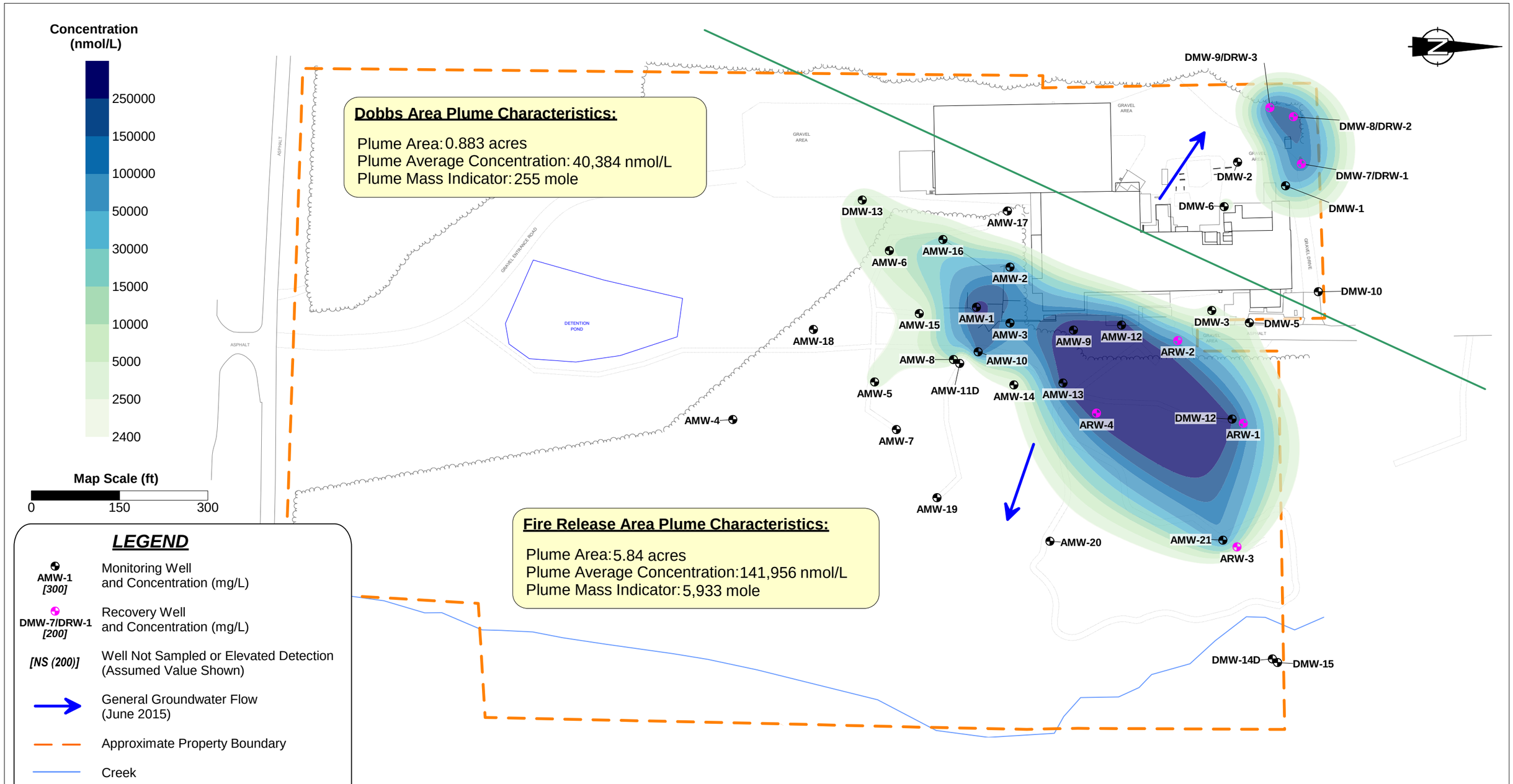

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Plume Map
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2011

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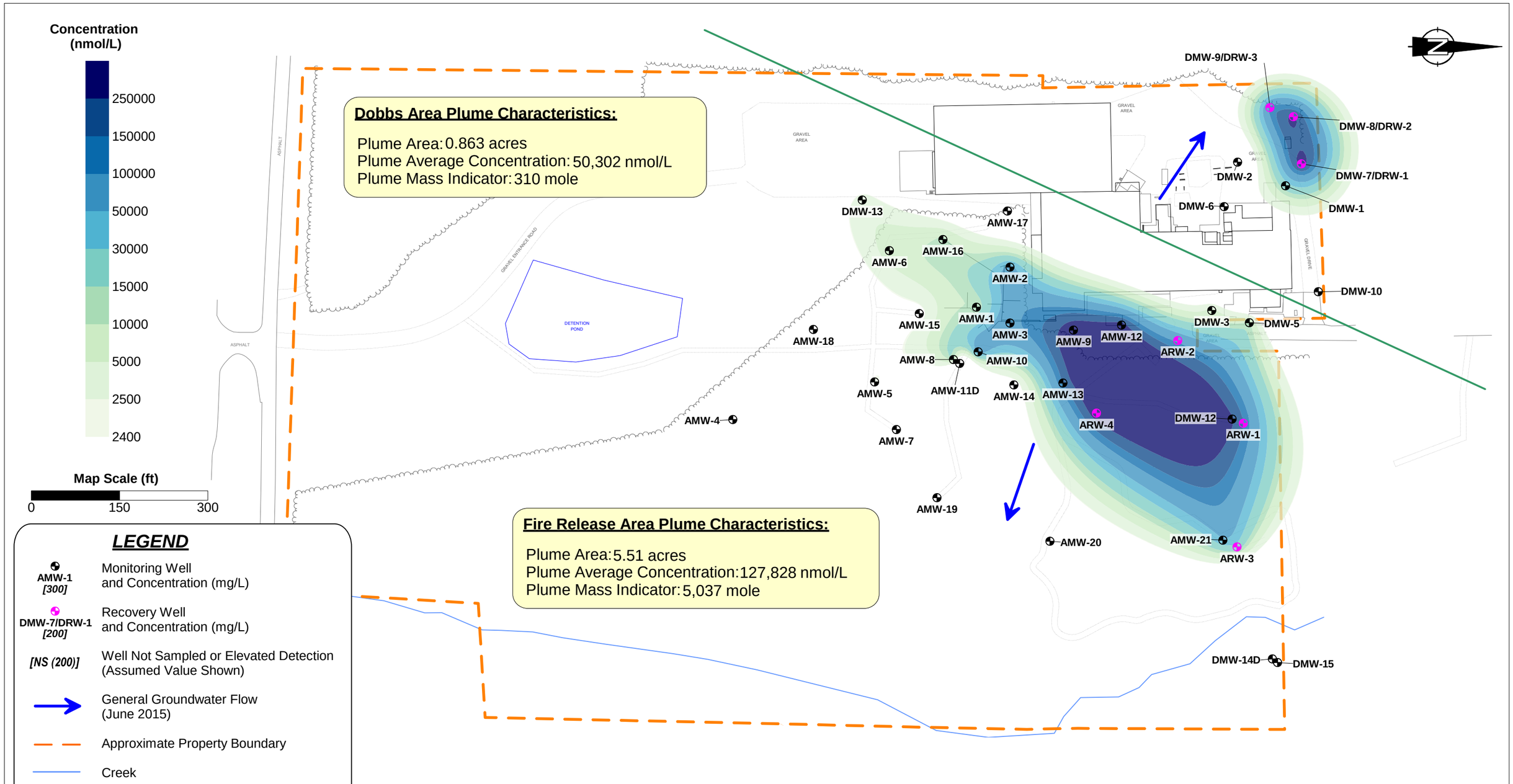

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Plume Map
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2012

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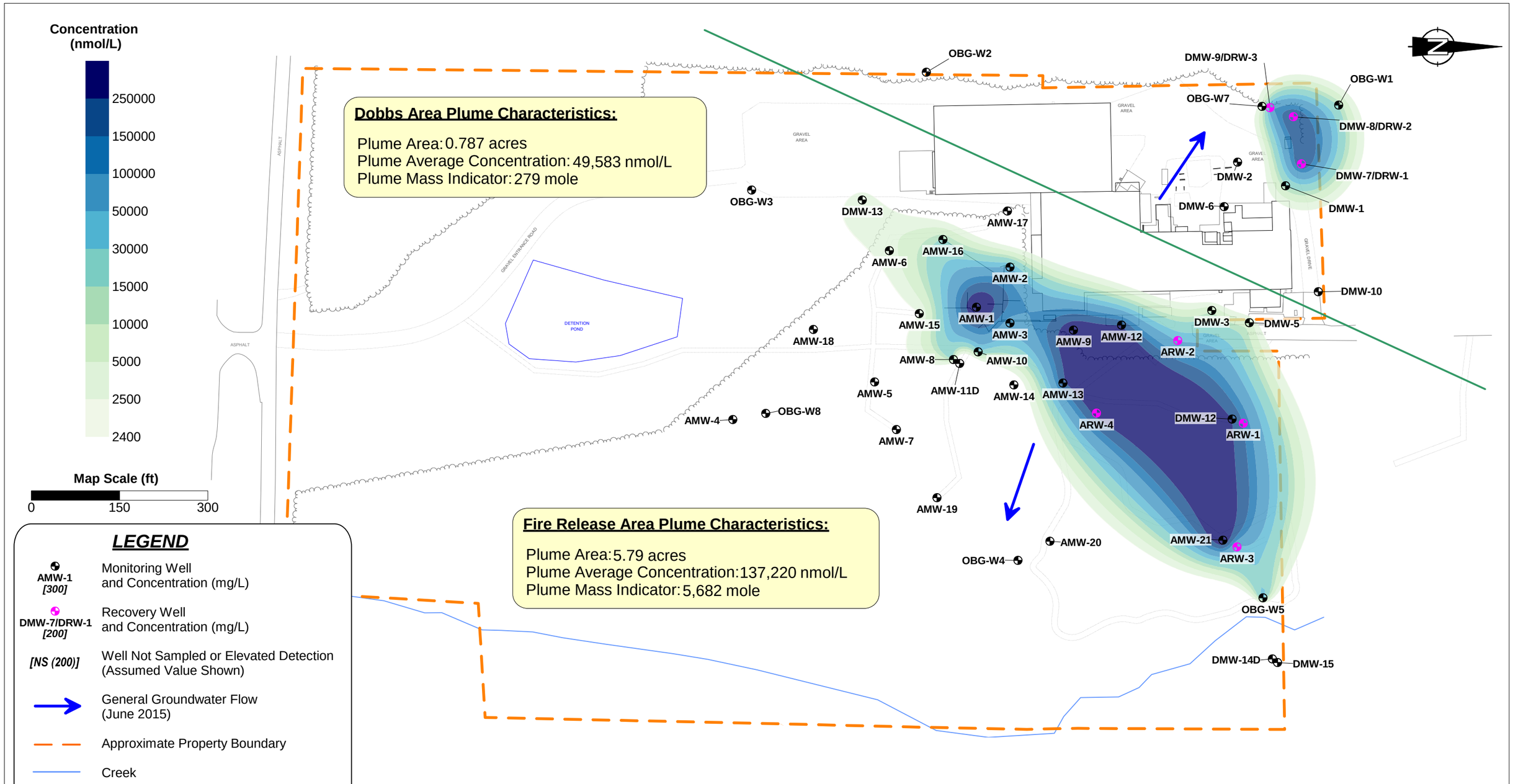

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2013

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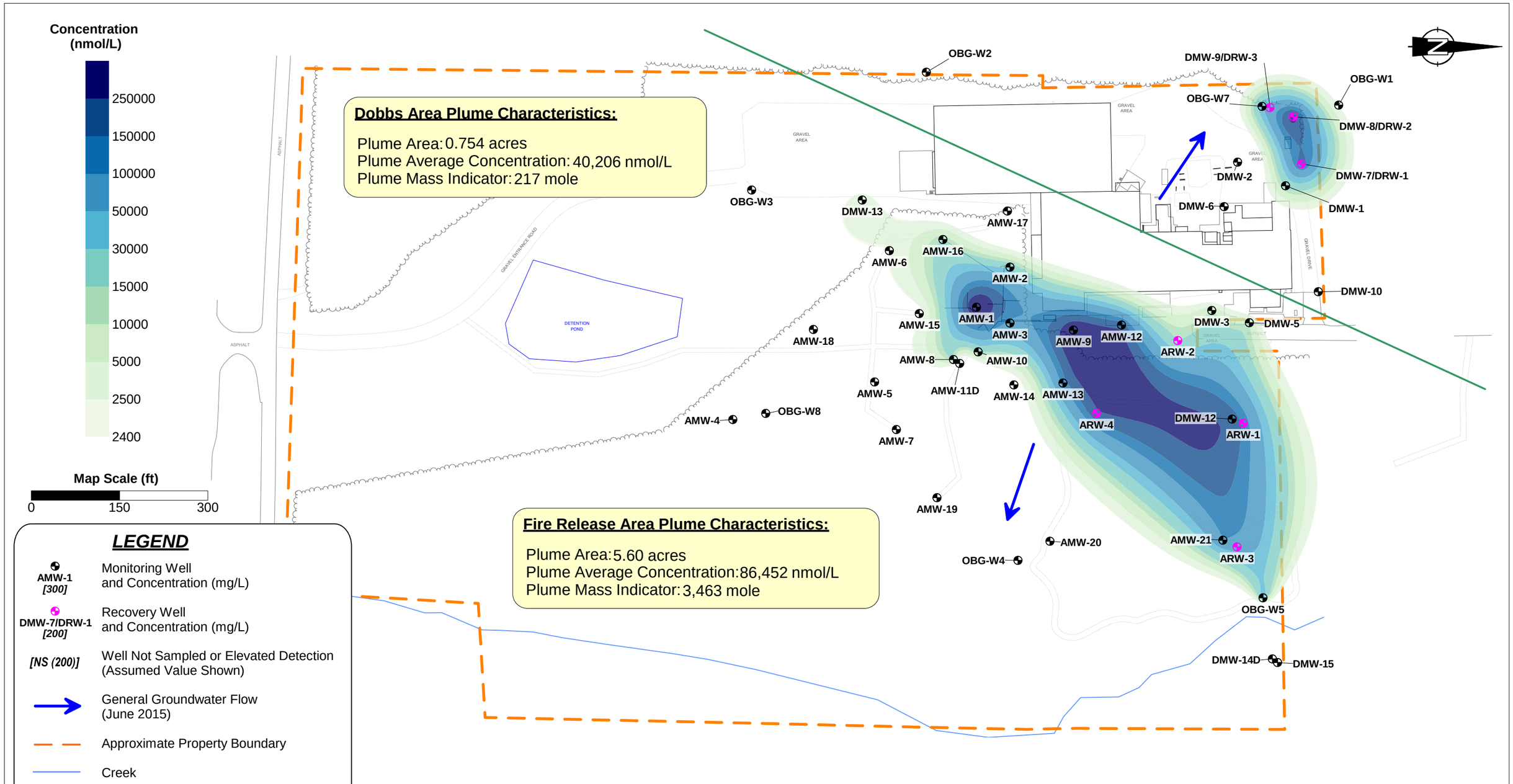

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Total CVOCs
Jun-2014

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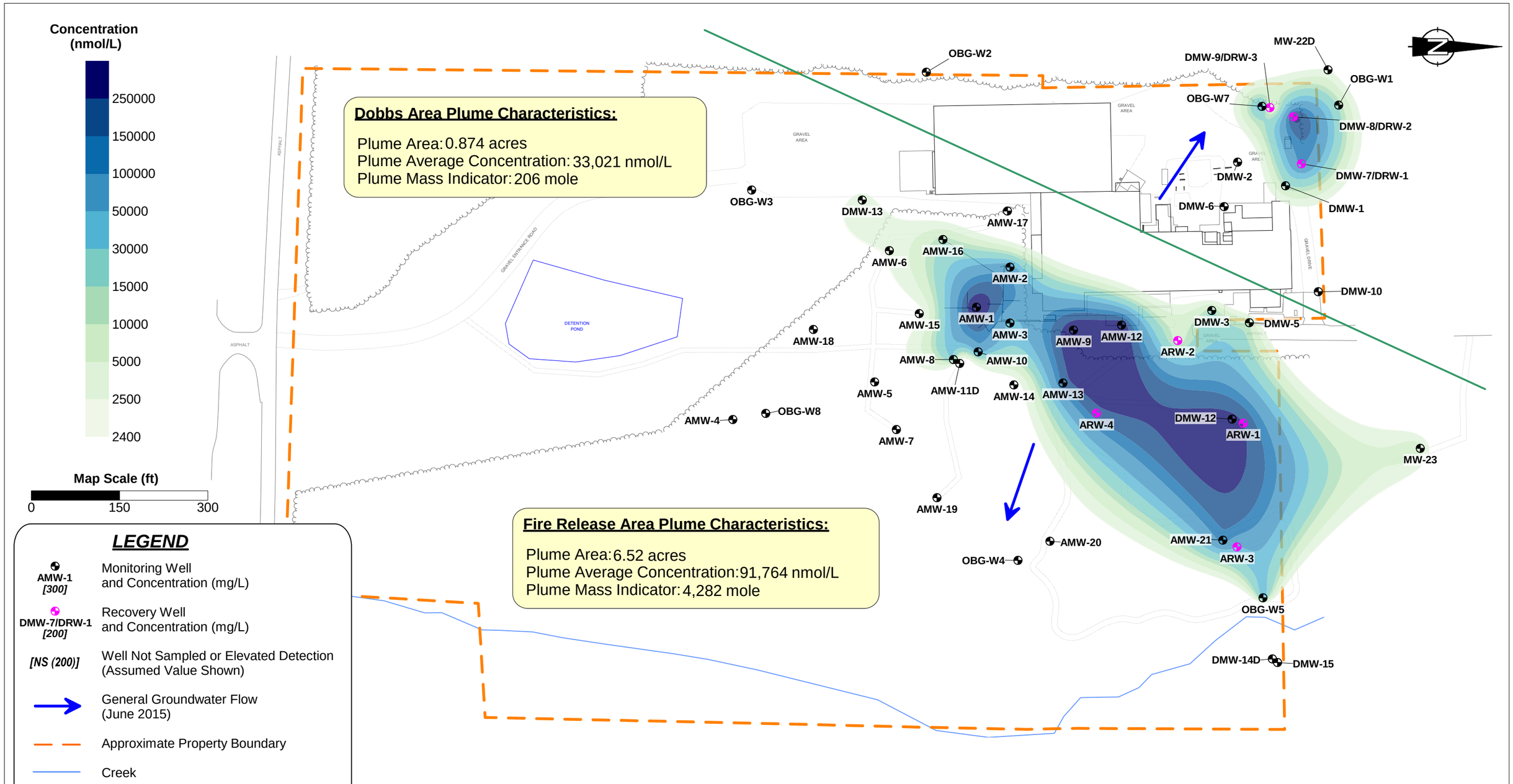

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Plume Map
Total CVOCs
Dec-2014

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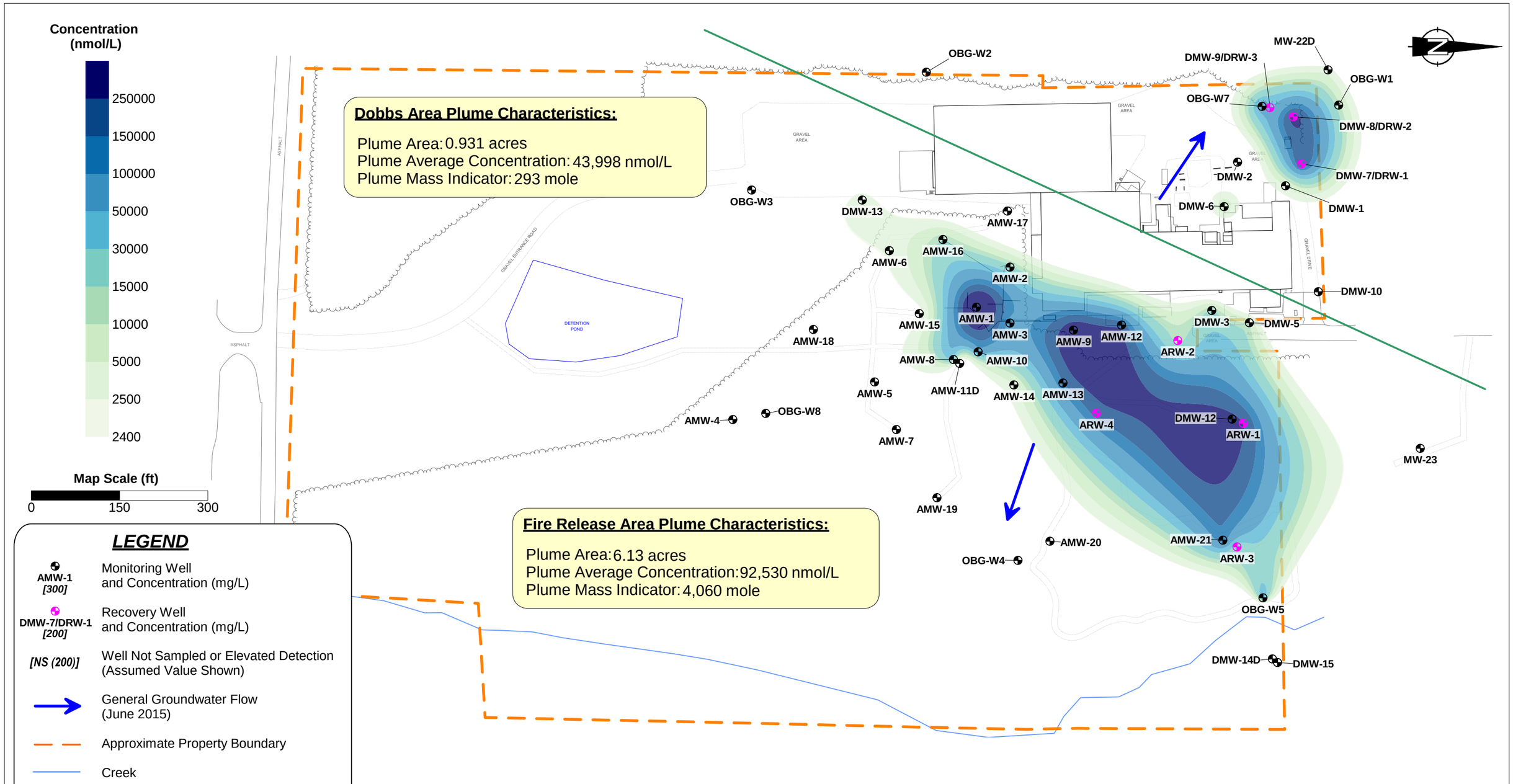

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Plume Map
Total CVOCs
Mar-2015

Prepared by: SNW Checked by: TOG Figure:

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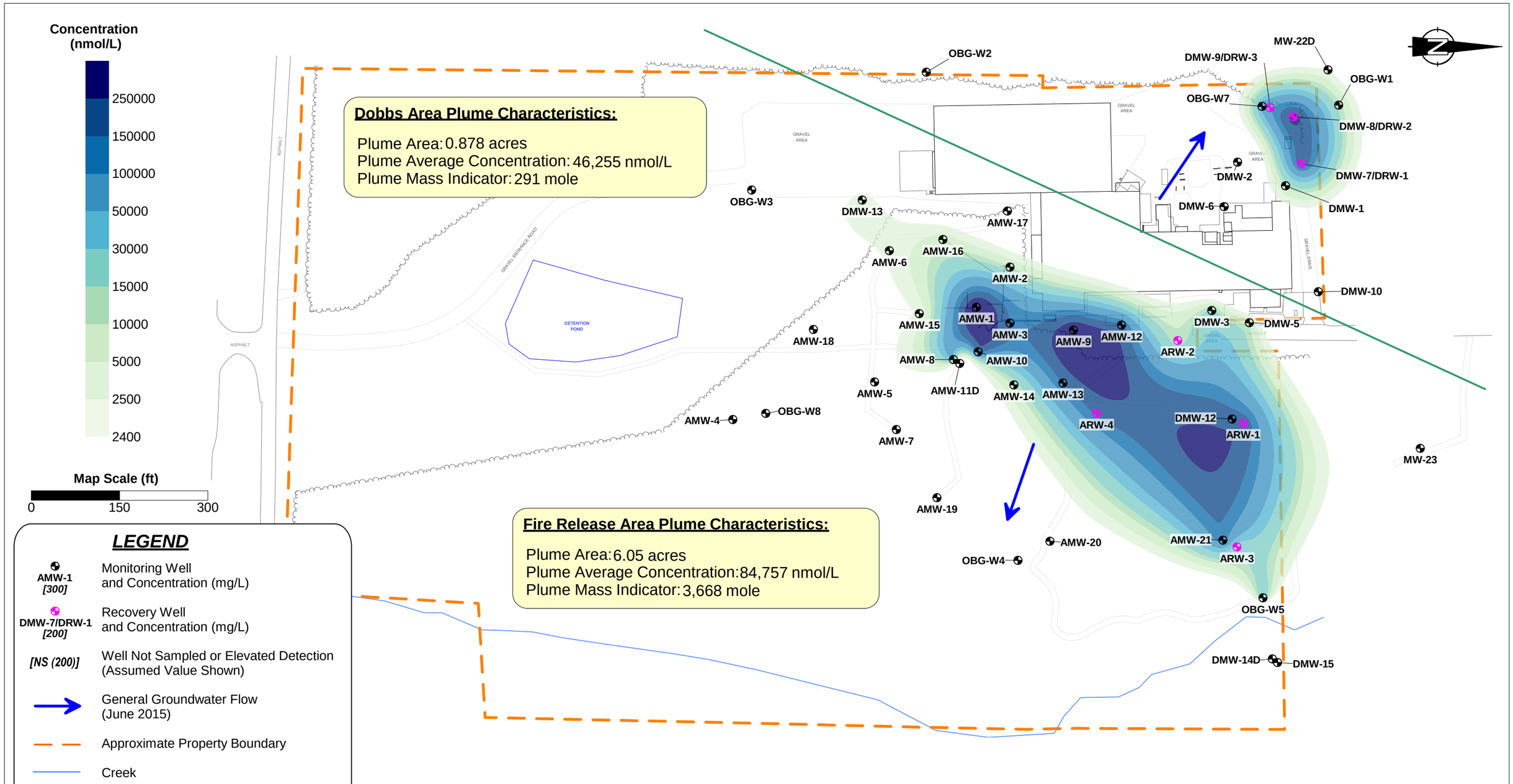

LEGEND

AMW-1 [300]	Monitoring Well and Concentration (mg/L)
DMW-7/DRW-1 [200]	Recovery Well and Concentration (mg/L)
[NS (200)]	Well Not Sampled or Elevated Detection (Assumed Value Shown)
→	General Groundwater Flow (June 2015)
— —	Approximate Property Boundary
—	Creek
—	Hydrogeologic Divide

Note: Fire Release Area recovery wells ARW-1, ARW-2, ARW-3, and ARW-4 were turned off September 2014.

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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AMC International, Inc.
310 Brookhollow Industrial Boulevard
Dalton, Whitfield County, Georgia
HSI Site Number 10405

Project Number: 02.20140392.00

EARTHCON®

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

Plume Map
Total CVOCs
Jun-2015

Prepared by: SNW Checked by: TOG Figure:

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APPENDIX F

TAX PARCEL INOFRMATION AND GROUNDWATER RECEPTOR SURVEY

APPENDIX F: TAX PARCEL INFORMATION AND GROUNDWATER RECEPTOR SURVEY

Potential residential drinking water wells were researched within one-half mile of the AMC Dalton facility. Based on information provided by Google Earth Pro and the Whitfield County Tax Assessor's website, potential residential properties within one-half mile of the AMC Dalton facility were identified. Subsequently, a representative of Dalton Utilities, the municipal water provider for the area, was contacted and provided with the addresses for the potential residential properties within one half-mile of the AMC Dalton facility to confirm whether the properties were connected to the municipal water supply. Dalton Utilities indicated that the following two locations were not connected to the municipal water supply: 710 Callahan Road and properties located on Laster Drive. A representative of the Whitfield County Environmental Health Department was then contacted to request private water well records for the aforementioned properties; however, the representative stated that private water well permit records were not maintained by any agency within Whitfield County. A summary of the findings of the groundwater receptor survey is provided below:

Potential Residential Sites within ½ mile:

<u>East</u>

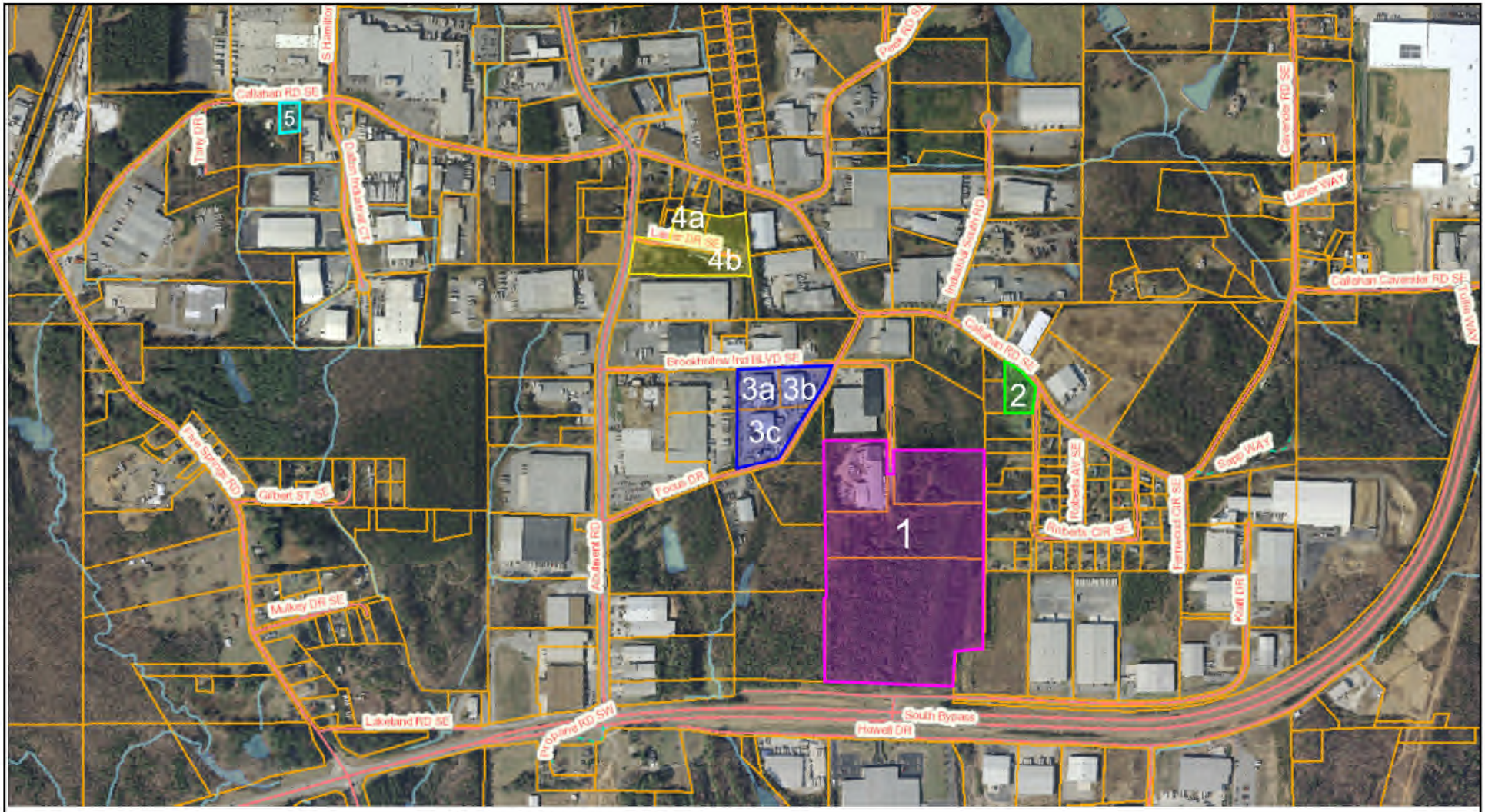
1) Roberts Circle Southeast – Connected to Dalton Utilities water, addresses range from 2612 to 2736
2) Roberts Avenue Southeast – Connected, addresses range from 2613 to 2624

<u>Northeast</u>

1) 686 Callahan Road – Connected, and now referenced by the addresses 1900 Kings Ridge Road and 674 Callahan Road (0.12mi)
2) 704 Callahan Road – Connected (0.10 mi)
3) 710 Callahan Road – **Not connected** (0.08 mi)

<u>Northwest</u>

1) Laster Drive – **Not connected**, zoned as Heavy Manufacturing, but looks residential. (0.26 miles from Property)
2) 518 Callahan Road – Connected
3) 522 Callahan Road – Connected
4) 526 Callahan Road – Connected
5) 530 Callahan Road – Connected
6) 2521 Abutment Road – Connected
7) Ponders Dr. SE – Connected



0 500 1000 2000

SCALE IN FEET

1. AMC International, Inc.
2. 710 Callahan Road SE
3. 208 and 216 Brookhollow Industrial Blvd SE and Shoemaker Road - Owned by Cargill Inc.
4. Laster Drive SE
5. 388 Callhan Road SE

N

AMC INTERNATIONAL, INC.

310 BROOKHOLLOW INDUSTRIAL BOULEVARD
DALTON, WHITFIELD COUNTY, GEORGIA
HSI SITE NUMBER 10405

PROJECT NO. 02.20140392.00

EARTHCON®

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

APPENDIX F
TAX PARCEL INFORMATION

DRAWN:	CHECKED:	DATE:	FIGURE:
SNW	CDN	AUG 2015	1

FILENAME: site location and tax info.dwg

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Parcel Information for Map Number 2

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-025-02-040
Realkey	30747
GIS Map	Map
Owner Name	LOWMAN BERNICE
Owner Address	710 CALLAHAN RD SE
Owner Address 2	
Owner Address 3	
Owner City	DALTON
Owner State	GA
Owner Zip	30721
Latitude	
Longitude	

Property Information

Class	Residential
Strata	Lot
Tax District	County
Neighborhood	
Legal Description	PTL1 ETHEL GIBSON
Total Acres	1.32
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

This parcel does not have any appeals

Parcel Address

Parcel House Number	710
Parcel Street Extension	
Parcel Street Direction	SE
Parcel Street Name	CALLAHAN
Parcel Street Units	
Parcel Street Type	RD

Current Fair Market Value Information

Previous	81616
Current	81616
Land	13125
Residential Improvement	64691
Commercial Improvement	
Accessory Improvement	3800
Conservation Use Value	

Historical Fair Market Value Information

2012	81616
2011	81616
2010	87242

Exemption Information

Homestead	S4-7
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap

For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	LOWMAN BERNICE	Legal Description	PTL1 ETHEL GIBSON
Year	2014	Sale Date	
Parcel Number	13-025-02-040	Taxes Due	101.93
Bill	221800	Taxes Due Date	12/20/2014
Exemption Type	S4-7	Taxes Paid	101.93
Account No.	21468	Taxes Paid Date	12/23/2014 9:53:19 AM
Millage Rate	0	Current Due	0
Fair Market Value	81616	Back Taxes	0
Assessed Value	32646	Total Due	0
Prior Years Tax Data	Tax		

Parcel Information for Map Number 3a

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-026-09-000
Realkey	30786
GIS Map	Map
Owner Name	CARGILL INCORPORATED
Owner Address	TAX DEPARTMENT - MS26
Owner Address 2	15407 MCGINTY ROAD WEST
Owner Address 3	
Owner City	WAYZATA
Owner State	MN
Owner Zip	55391
Latitude	
Longitude	

Property Information

Class	Industrial
Strata	Lot
Tax District	City of Dalton B
Neighborhood	
Legal Description	SNELL IND PK BROOKHOLLOW BLVD
Total Acres	2.01
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

This parcel does not have any appeals

Parcel Address

Parcel House Number	208
Parcel Street Extension	
Parcel Street Direction	SE
Parcel Street Name	BROOKHOLLOW IND
Parcel Street Units	
Parcel Street Type	BLVD

Current Fair Market Value Information

Previous	796227
Current	641088
Land	42210
Residential Improvement	
Commercial Improvement	578878
Accessory Improvement	20000
Conservation Use Value	

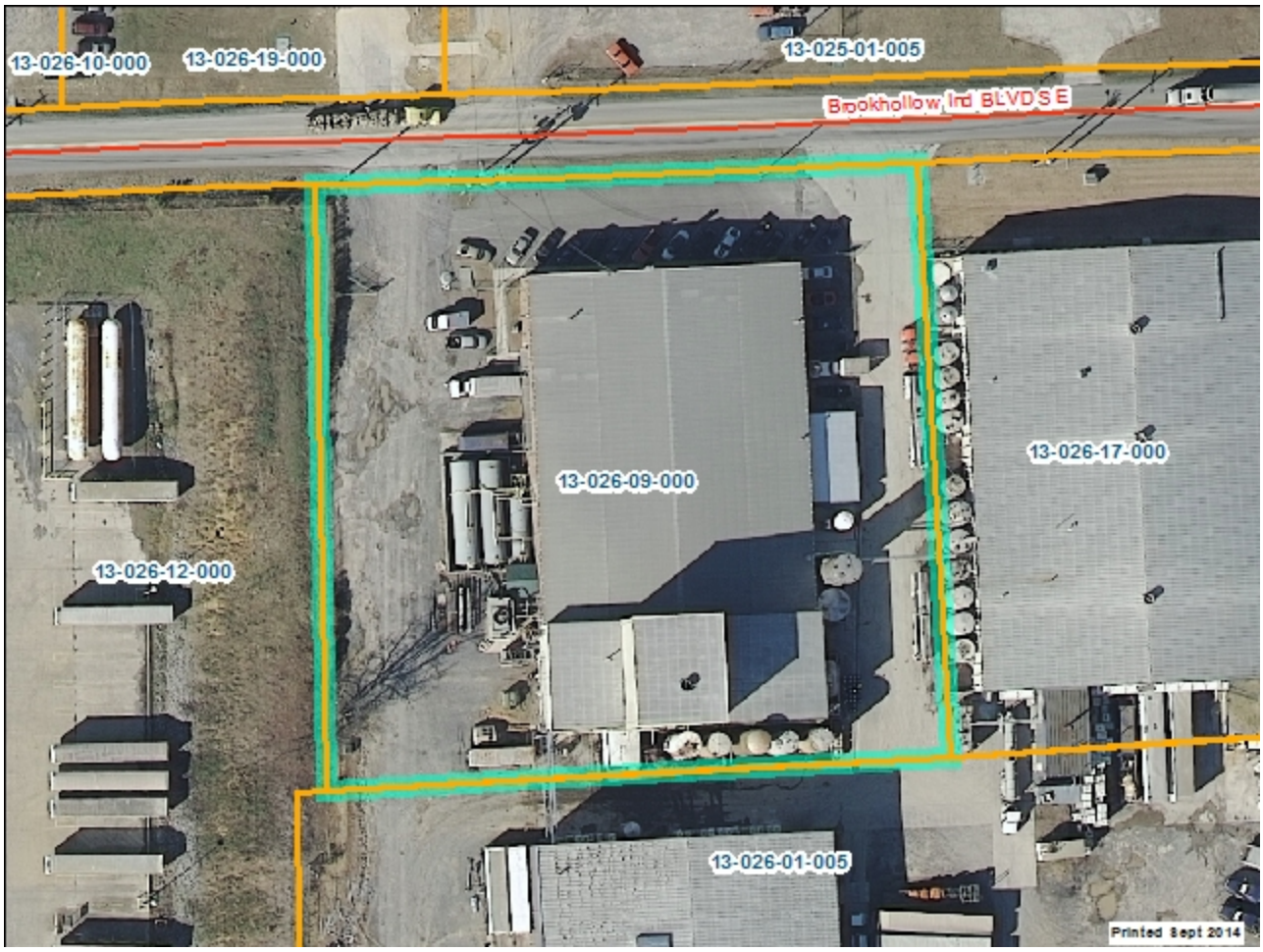
Historical Fair Market Value Information

2012	796227
2011	933290
2010	933290

Exemption Information

Homestead	S0
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap



For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	COFIELD FAMILY LLLP	Legal Description	SNELL IND PK BROOKHOLLOW BLVD
Year	2014	Sale Date	
Parcel Number	13-026-09-000	Taxes Due	8463.26
Bill	207853	Taxes Due Date	12/20/2014
Exemption Type		Taxes Paid	8463.26
Account No.	7022979	Taxes Paid Date	12/18/2014 1:15:29 PM
Millage Rate	0	Current Due	0
Fair Market Value	641088	Back Taxes	0
Assessed Value	256436	Total Due	0
Prior Years Tax Data	Tax		

Parcel Inforomation for Map Number 3b

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-026-17-000
Realkey	30793
GIS Map	Map
Owner Name	CARGILL INCORPORATED
Owner Address	TAX DEPARTMENT - MS26
Owner Address 2	15407 MCGINTY ROAD WEST
Owner Address 3	
Owner City	WAYZATA
Owner State	MN
Owner Zip	55391
Latitude	
Longitude	

Property Information

Class	Industrial
Strata	Lot
Tax District	City of Dalton B
Neighborhood	
Legal Description	2.04A FRED W SNELL IND PK
Total Acres	2.04
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

Appeal Year	2008
Appeal Status	Resolved

Parcel Address

Parcel House Number	216
Parcel Street Extension	
Parcel Street Direction	SE
Parcel Street Name	BROOKHOLLOW IND
Parcel Street Units	
Parcel Street Type	BLVD

Current Fair Market Value Information

Previous	622137
Current	604870
Land	54163
Residential Improvement	
Commercial Improvement	550707
Accessory Improvement	
Conservation Use Value	

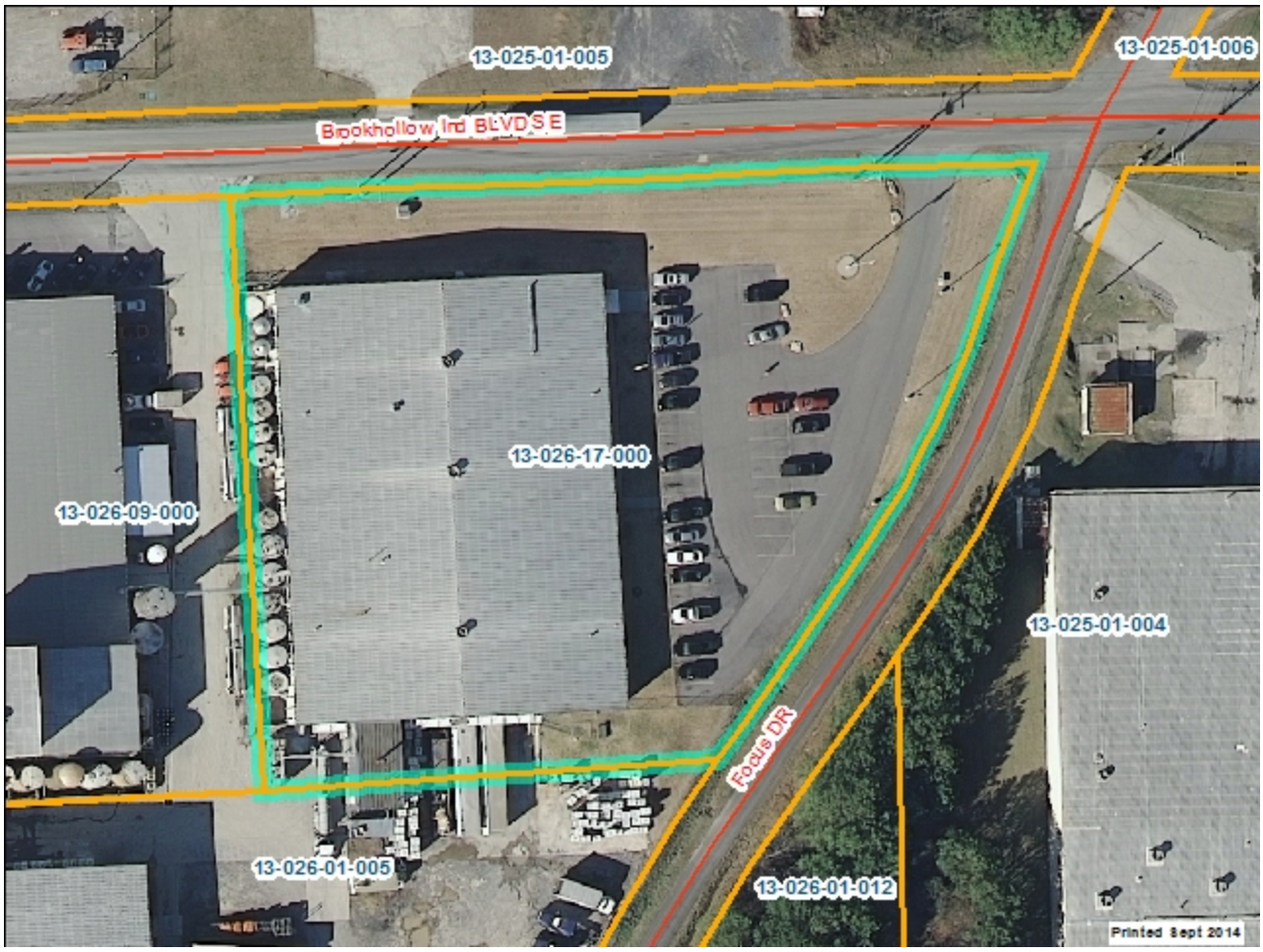
Historical Fair Market Value Information

2012	622137
2011	622137
2010	622137

Exemption Information

Homestead	S0
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap



For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	COFIELD FAMILY LLLP	Legal Description	2.04A FRED W SNELL IND PK
Year	2014	Sale Date	
Parcel Number	13-026-17-000	Taxes Due	7985.12
Bill	207854	Taxes Due Date	12/20/2014
Exemption Type		Taxes Paid	7985.12
Account No.	7022979	Taxes Paid Date	12/18/2014 1:15:29 PM
Millage Rate	0	Current Due	0
Fair Market Value	604870	Back Taxes	0
Assessed Value	241948	Total Due	0
Prior Years Tax Data	Tax		

Parcel Information for Map Number 3c

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-026-01-005
Realkey	30773
GIS Map	Map
Owner Name	CARGILL INCORPORATED
Owner Address	TAX DEPARTMENT - MS26
Owner Address 2	15407 MCGINTY ROAD WEST
Owner Address 3	
Owner City	WAYZATA
Owner State	MN
Owner Zip	55391
Latitude	
Longitude	

Property Information

Class	Industrial
Strata	Lot
Tax District	County
Neighborhood	
Legal Description	3.05A R D HIGGINS JR
Total Acres	3.05
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

This parcel does not have any appeals

Parcel Address

Parcel House Number	0
Parcel Street Extension	
Parcel Street Direction	
Parcel Street Name	SHOEMAKER
Parcel Street Units	
Parcel Street Type	RD

Current Fair Market Value Information

Previous	438025
Current	402207
Land	47935
Residential Improvement	
Commercial Improvement	348211
Accessory Improvement	6061
Conservation Use Value	

Historical Fair Market Value Information

2012	438025
2011	53996
2010	53996

Exemption Information

Homestead	S0
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap

For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	COFIELD FAMILY LLLP	Legal Description	3.05A R D HIGGINS JR
Year	2014	Sale Date	
Parcel Number	13-026-01-005	Taxes Due	4330.46
Bill	207852	Taxes Due Date	12/20/2014
Exemption Type		Taxes Paid	4330.46
Account No.	7022979	Taxes Paid Date	12/18/2014 1:15:29 PM
Millage Rate	0	Current Due	0
Fair Market Value	402207	Back Taxes	0
Assessed Value	160882	Total Due	0
Prior Years Tax Data	Tax		

Parcel Information for Map Number 4a

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-011-01-016
Realkey	30376
GIS Map	Map
Owner Name	SIGALA NOE & ISIDRO CELIA HERNANDEZ
Owner Address	521 LASTER DRIVE SE
Owner Address 2	
Owner Address 3	
Owner City	DALTON
Owner State	GA
Owner Zip	30721
Latitude	
Longitude	

Property Information

Class	Residential
Strata	Lot
Tax District	County
Neighborhood	
Legal Description	1.01A DAVIS ACRES
Total Acres	1.01
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Parcel Address

Parcel House Number	521
Parcel Street Extension	
Parcel Street Direction	SE
Parcel Street Name	LASTER
Parcel Street Units	
Parcel Street Type	DR

Current Fair Market Value Information

Previous	29677
Current	20500
Land	10500
Residential Improvement	
Commercial Improvement	
Accessory Improvement	10000
Conservation Use Value	

Historical Fair Market Value Information

2012	29677
2011	29677
2010	29677

Exemption Information

Homestead	S0
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

Appeals Information

This parcel does not have any appeals

GIS Quickmap

For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	SIGALA NOE & ISIDRO CELIA HERNANDEZ
Year	2014
Parcel Number	13-011-01-016
Bill	232720
Exemption Type	
Account No.	7069864
Millage Rate	0
Fair Market Value	20500
Assessed Value	8200
Prior Years Tax Data	Tax

Legal Description	1.01A DAVIS ACRES
Sale Date	5/2/2013
Taxes Due	220.72
Taxes Due Date	12/20/2014
Taxes Paid	220.72
Taxes Paid Date	11/17/2014 1:54:18 PM
Current Due	0
Back Taxes	0
Total Due	0

Parcel Information for Map Number 4b

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-011-01-005
Realkey	30366
GIS Map	Map
Owner Name	BARRETT FAMILY PARTNERSHIP LLLP
Owner Address	P O BOX 742
Owner Address 2	
Owner Address 3	
Owner City	DALTON
Owner State	GA
Owner Zip	307220742
Latitude	
Longitude	

Property Information

Class	Commercial
Strata	Small Tract
Tax District	County
Neighborhood	
Legal Description	6.91A ABUTMENT RD
Total Acres	6.91
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

This parcel does not have any appeals

Parcel Address

Parcel House Number	2557
Parcel Street Extension	
Parcel Street Direction	
Parcel Street Name	ABUTMENT
Parcel Street Units	
Parcel Street Type	RD

Current Fair Market Value Information

Previous	151963
Current	151963
Land	86129
Residential Improvement	65834
Commercial Improvement	
Accessory Improvement	
Conservation Use Value	

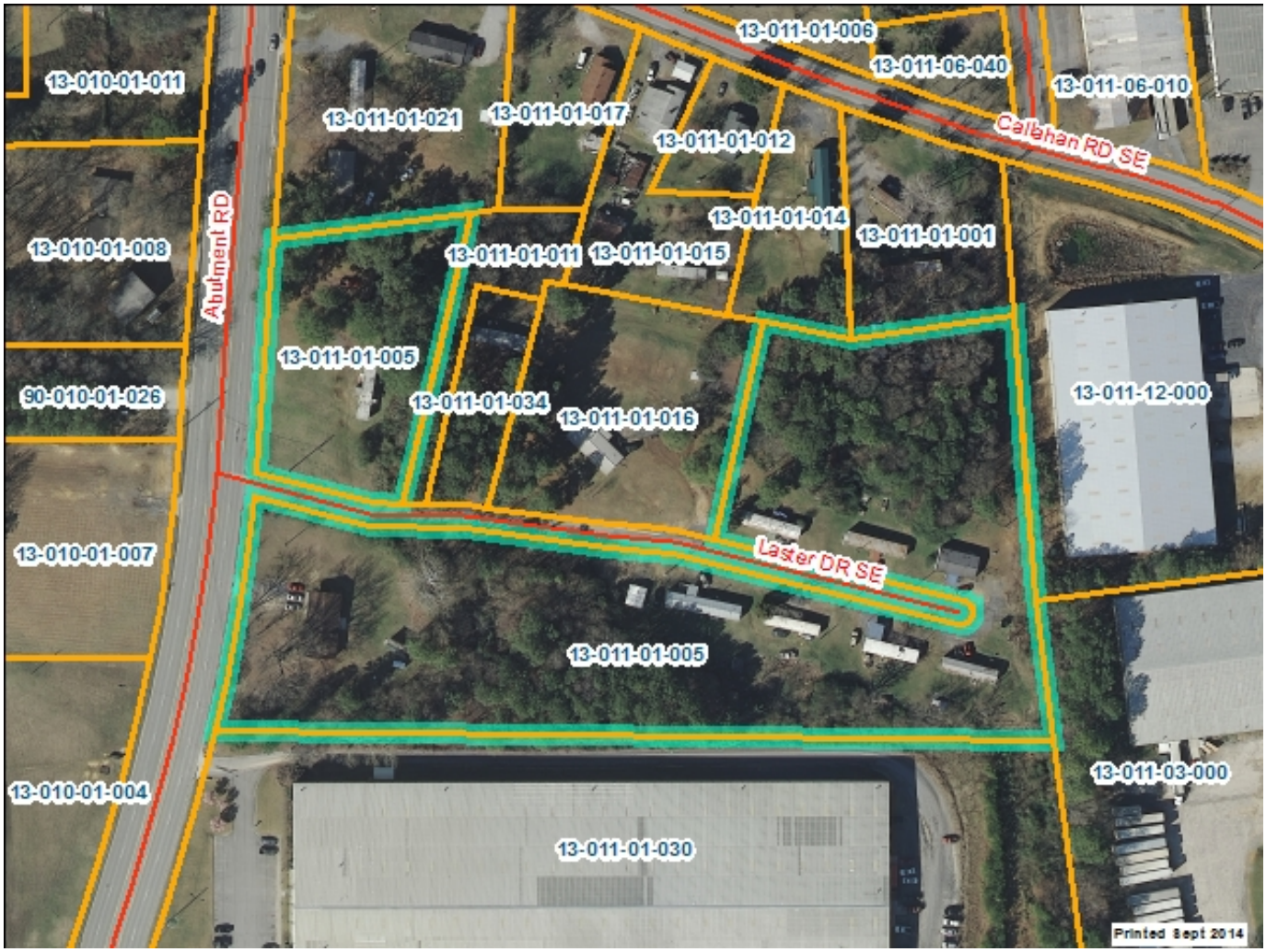
Historical Fair Market Value Information

2012	151963
2011	151963
2010	159659

Exemption Information

Homestead	S0
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap



For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	BARRETT FAMILY PARTNERSHIP LLLP	Legal Description	6.91A ABUTMENT RD
Year	2014	Sale Date	
Parcel Number	13-011-01-005	Taxes Due	1636.18
Bill	202224	Taxes Due Date	12/20/2014
Exemption Type		Taxes Paid	1636.18
Account No.	30438	Taxes Paid Date	12/16/2014 9:44:47 AM
Millage Rate	0	Current Due	0
Fair Market Value	151963	Back Taxes	0
Assessed Value	60786	Total Due	0
Prior Years Tax Data	Tax		

Parcel Information for Map Number 5

Whitfield County Tax Parcel Information

Owner and Parcel Information

Parcel Number	13-010-12-000
Realkey	30359
GIS Map	Map
Owner Name	MENDEZ PEDRO GARCIA & CHRISTINA LEE
Owner Address	PEASE
Owner Address 2	388 CALLAHAN RD SE
Owner Address 3	
Owner City	DALTON
Owner State	GA
Owner Zip	30721
Latitude	
Longitude	

Property Information

Class	Residential
Strata	Lot
Tax District	County
Neighborhood	
Legal Description	.66A CALLAHAN RD
Total Acres	0.57
Zoning	See GIS Map
GMD\Map Number	086
Subdivision	
Subdivision Phase	
Subdivision Section	
Subdivision Block	
Subdivision Lot	
Comments:	

Appeals Information

This parcel does not have any appeals

Parcel Address

Parcel House Number	388
Parcel Street Extension	
Parcel Street Direction	SE
Parcel Street Name	CALLAHAN
Parcel Street Units	
Parcel Street Type	RD

Current Fair Market Value Information

Previous	73518
Current	73518
Land	8550
Residential Improvement	54326
Commercial Improvement	
Accessory Improvement	10642
Conservation Use Value	

Historical Fair Market Value Information

2012	73518
2011	73518
2010	78243

Exemption Information

Homestead	S1
Preferential Year	
Conservation Use Year	
Historical Year	
Historical Val	0
EZ year	
EZ Val	0

GIS Quickmap

For the current GIS map of this parcel, click on the Quickmap to launch the interactive map viewer

Tax Commissioner Information

Before making payment verify the amount due with the Tax Commissioner's office at 706-275-7510

Tax Bill Recipient	MENDEZ PEDRO GARCIA & CHRISTINA LEE	Legal Description	.66A CALLAHAN RD
Year	2014	Sale Date	
Parcel Number	13-010-12-000	Taxes Due	592.63
Bill	223795	Taxes Due Date	12/20/2014
Exemption Type	S1	Taxes Paid	592.63
Account No.	21194	Taxes Paid Date	12/15/2014 8:27:10 AM
Millage Rate	0	Current Due	0
Fair Market Value	73518	Back Taxes	0
Assessed Value	29407	Total Due	0
Prior Years Tax Data	Tax		